

ARTS DEPT.

No. 2989 Volume 115

Registered as a Newspaper

The Architects' JOURNAL for June 12, 1952

# THE ARCHITECTS' JOURNAL

Price 1s. 0d.

## RECONSTRUCTION OF PLYMOUTH

The Plymouth Co-operative Society Ltd., New Premises, Royal Parade, Plymouth. MAIN CONTRACTORS : Plymouth Co-operative Society Ltd., Works Department, Plymouth. ARCHITECT : W. J. Reed, F.R.I.B.A., Chartered Architect, Co-operative Wholesale Society Ltd., 99 Leman Street, London, E.1.

# Framing



# the

# future

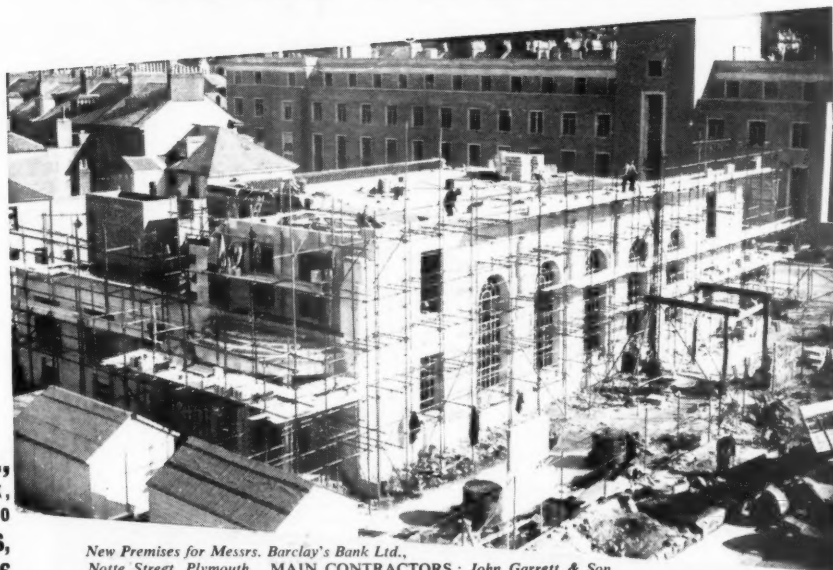
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Green and Lloyd, 5 Pickering Place, St. James's Street, London, S.W.1.

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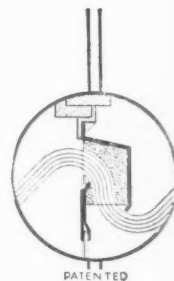


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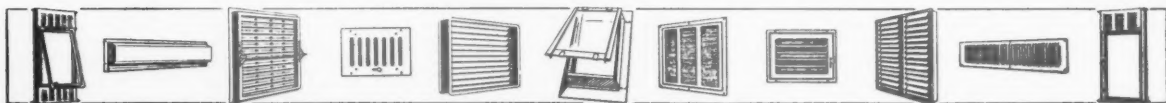
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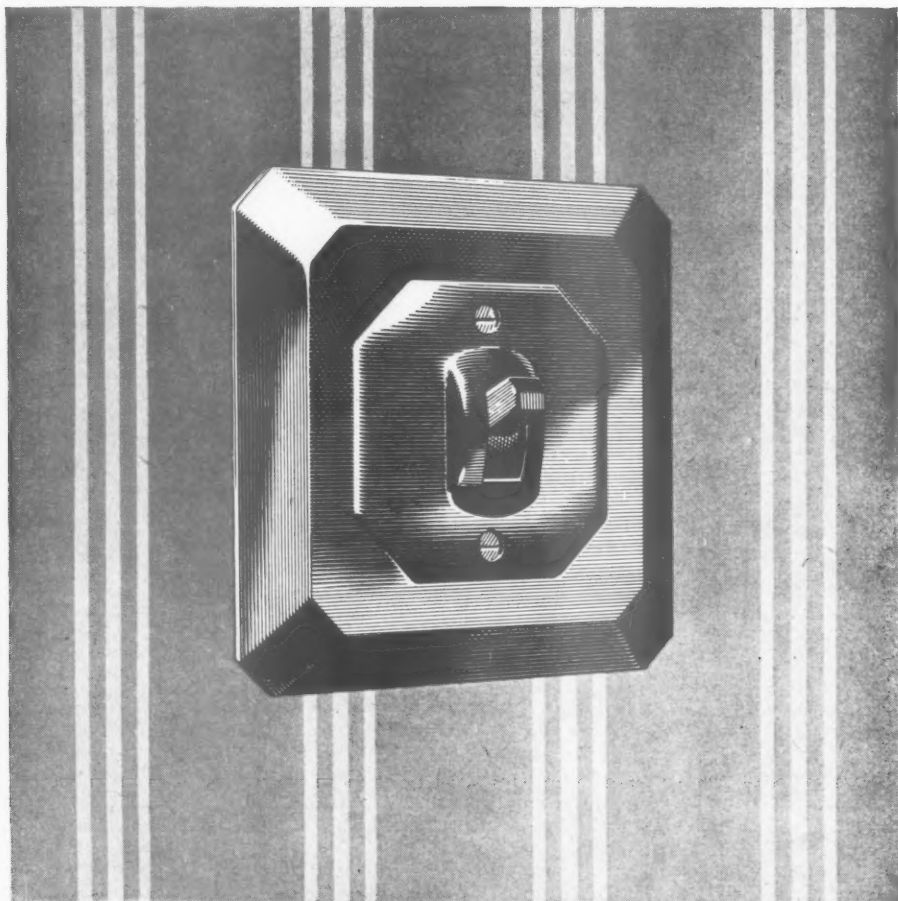
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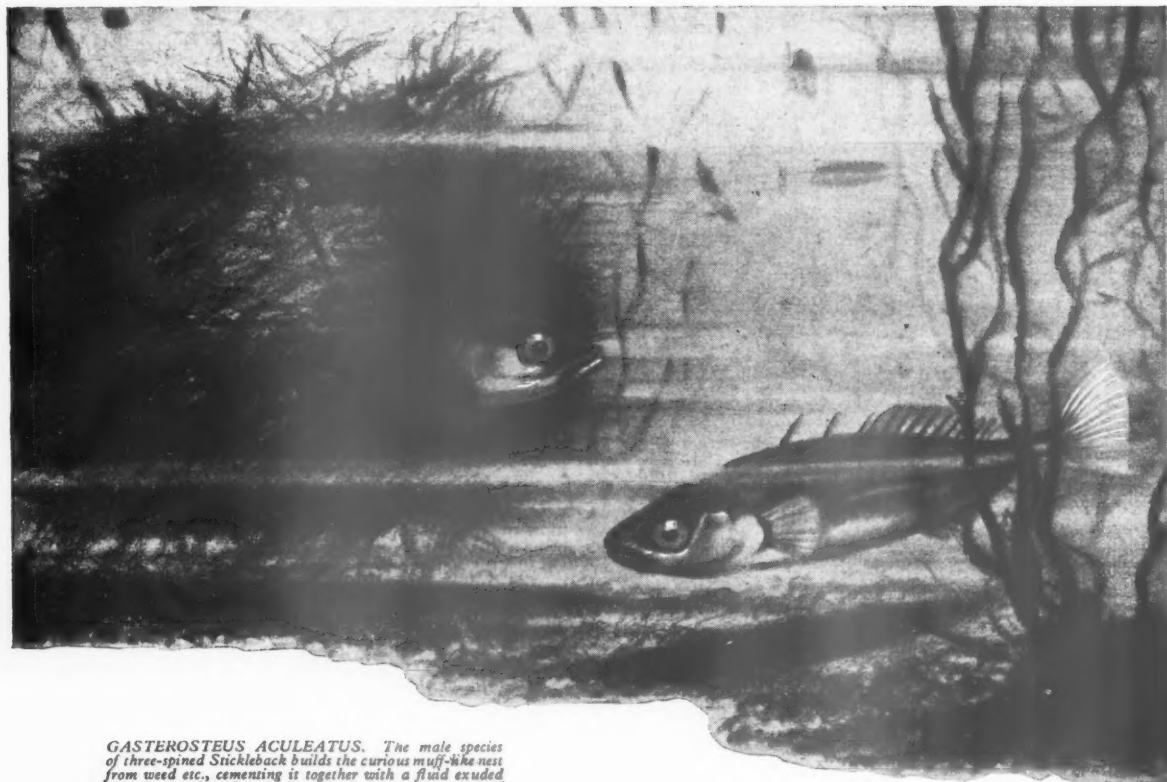
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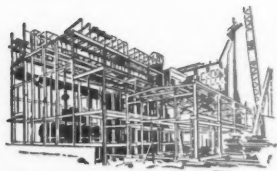


*GASTEROSTEUS ACULEATUS. The male species of three-spined Stickleback builds the curious muff-like nest from weed etc., cementing it together with a fluid exuded from its mouth and anchoring it to the bottom by strands of roots etc.*

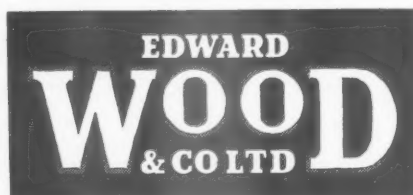
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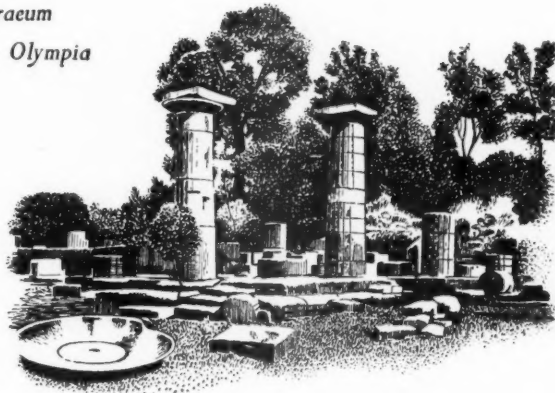
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at Olympia*



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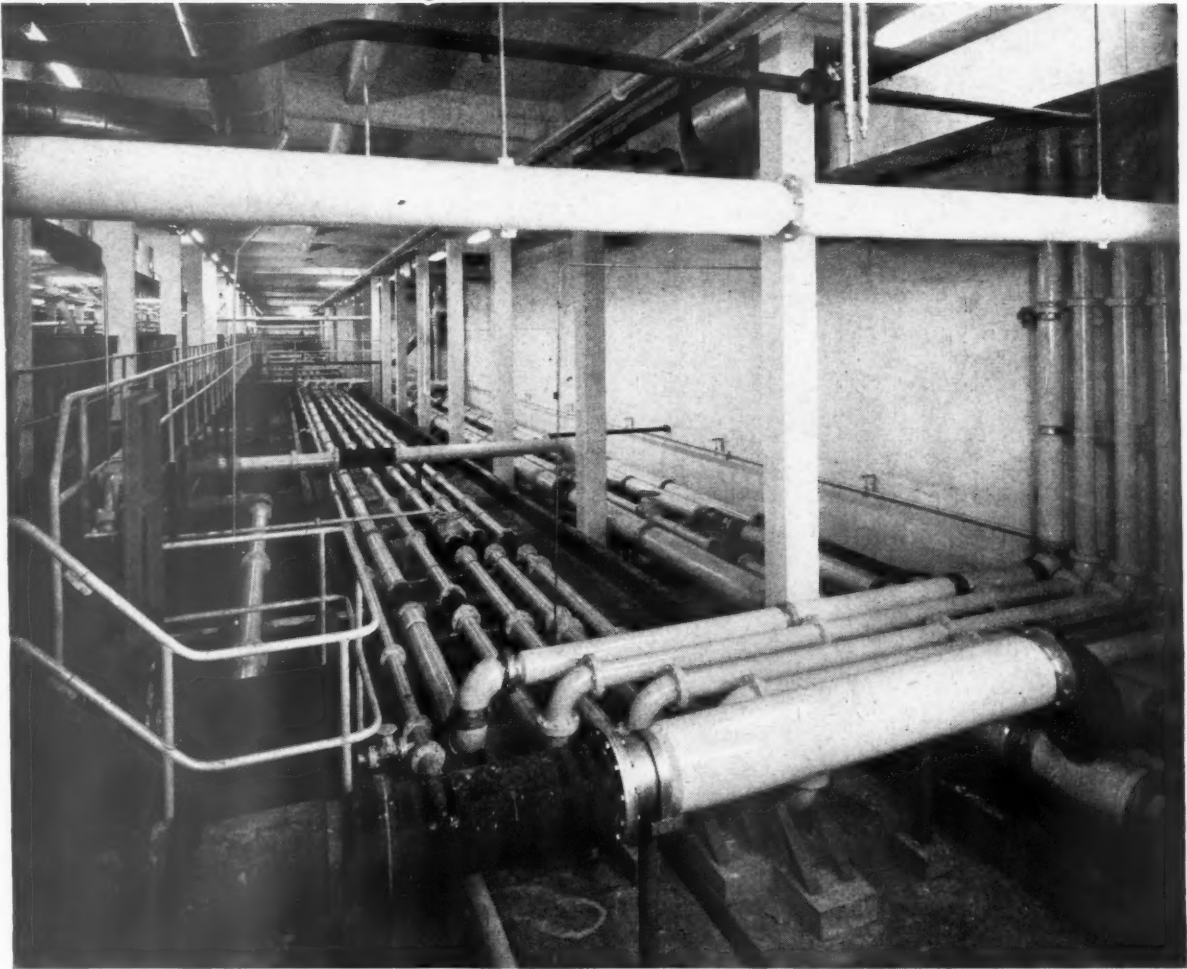
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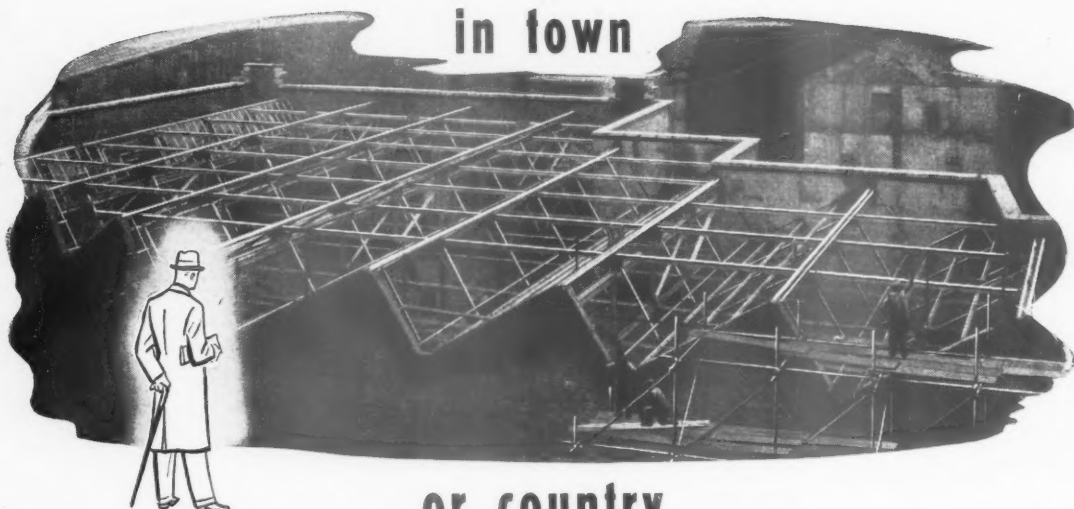
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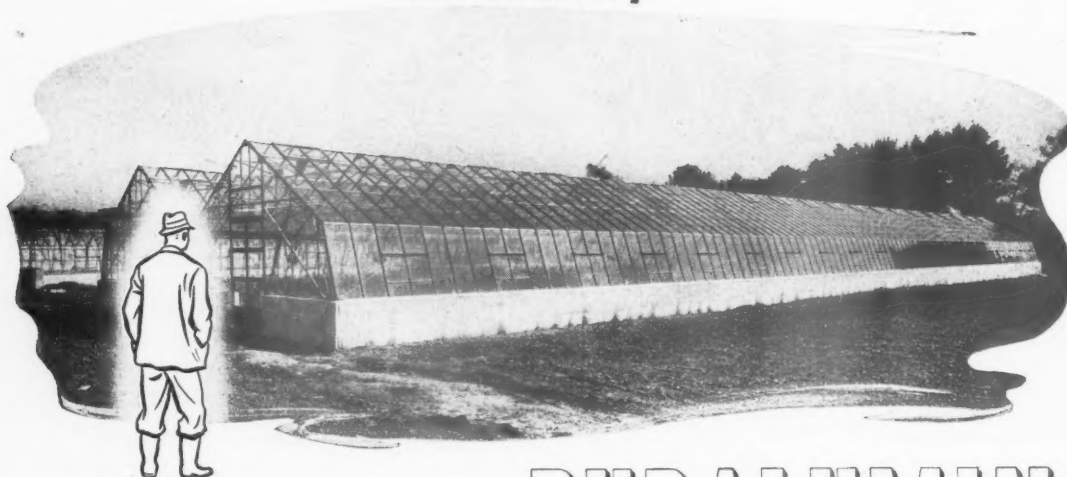


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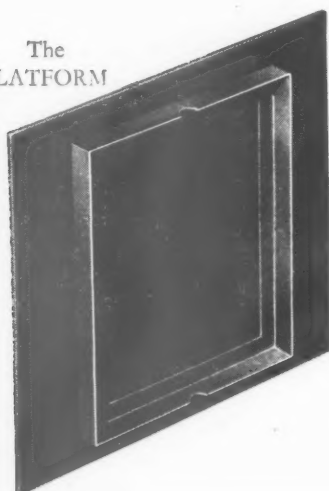
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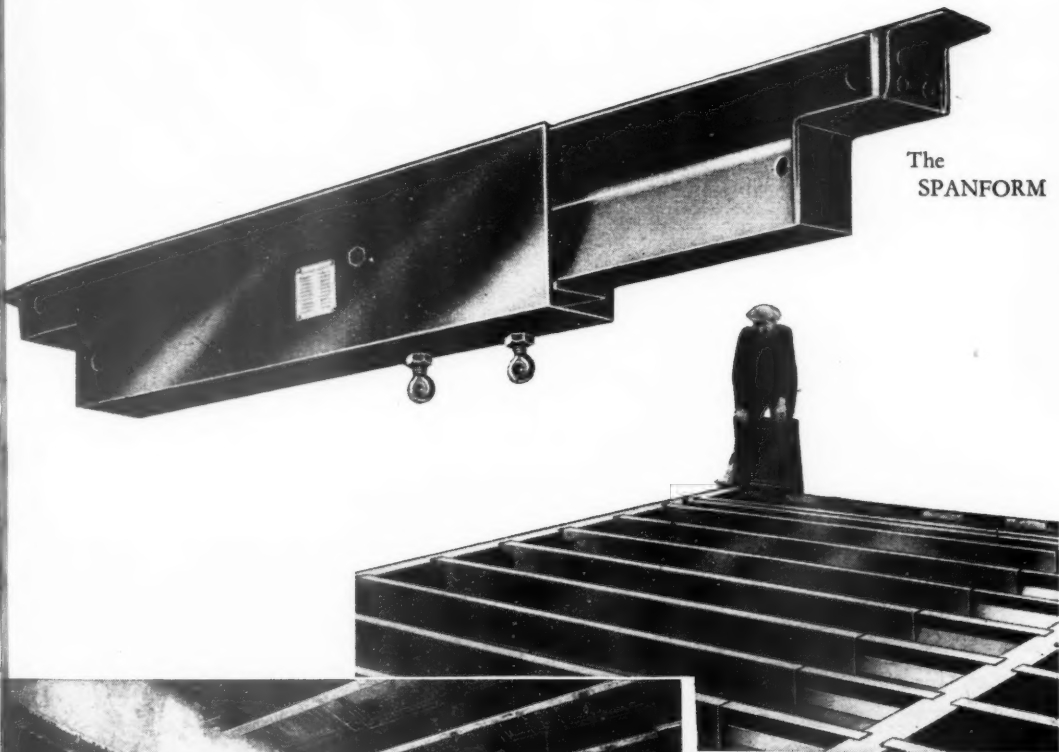
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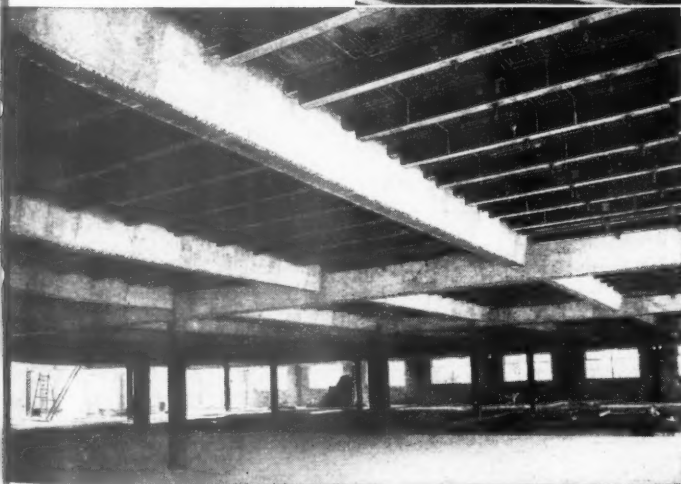
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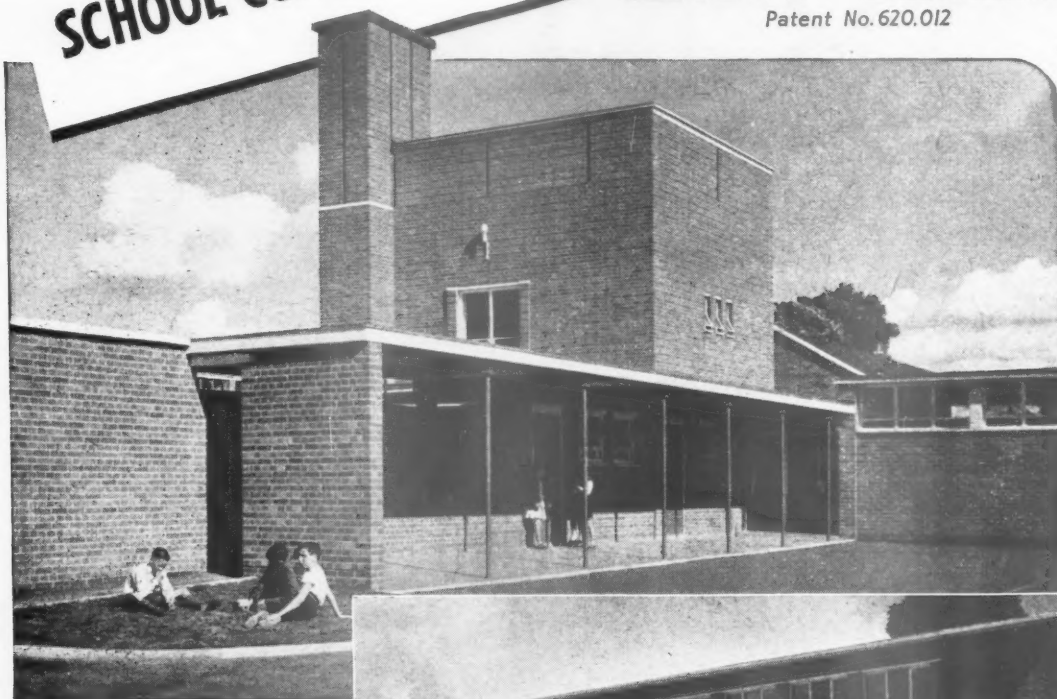
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**"TURNALL"**

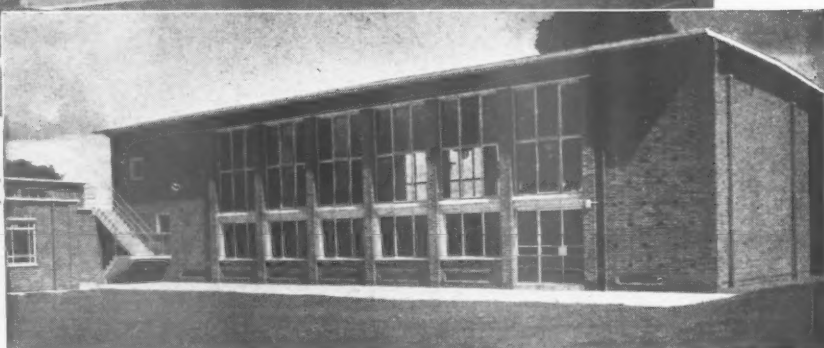
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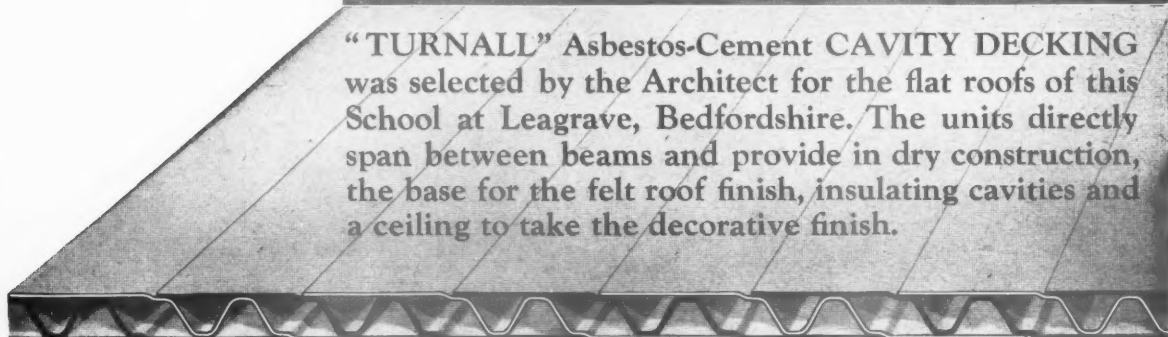
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*Legrave County Primary (Junior) School, Luton.  
Architect: Howard V. Lobb, C.B.E., F.R.I.B.A.*



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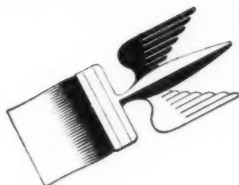
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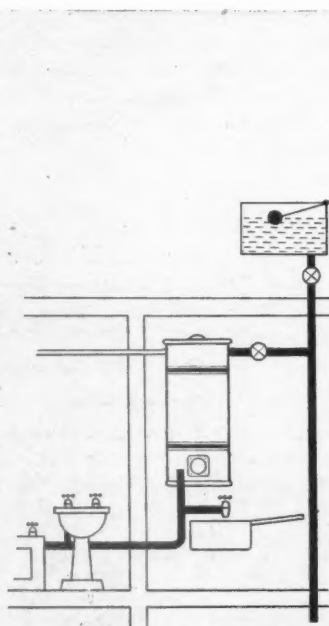
**SADIA**  
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SADIA WATER HEATERS are particularly appropriate for house conversions. They do not require a chimney or flue and can be fitted in any convenient space with a minimum of structural alteration. The Sadia range includes single-point units for the sink or wash basin, multi-point pressure type units, and models with built-in cold water storage tanks.

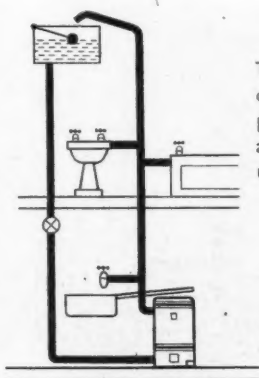
Aidas Electric Ltd., the makers of Sadia water heaters, are always glad to give specialist advice to architects when they are preparing plans for conversion or for new building.

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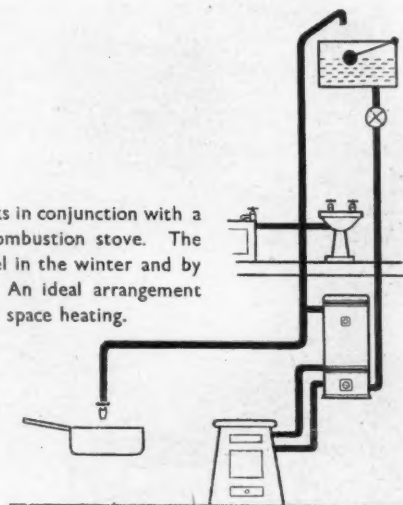


Sadia water heaters with built-in cold water storage tanks save plumbing work in blocks of flats. They can be fed from one common down service pipe and do not require vent or expansion pipes. This system can be used with all-electric or coal-electric models.



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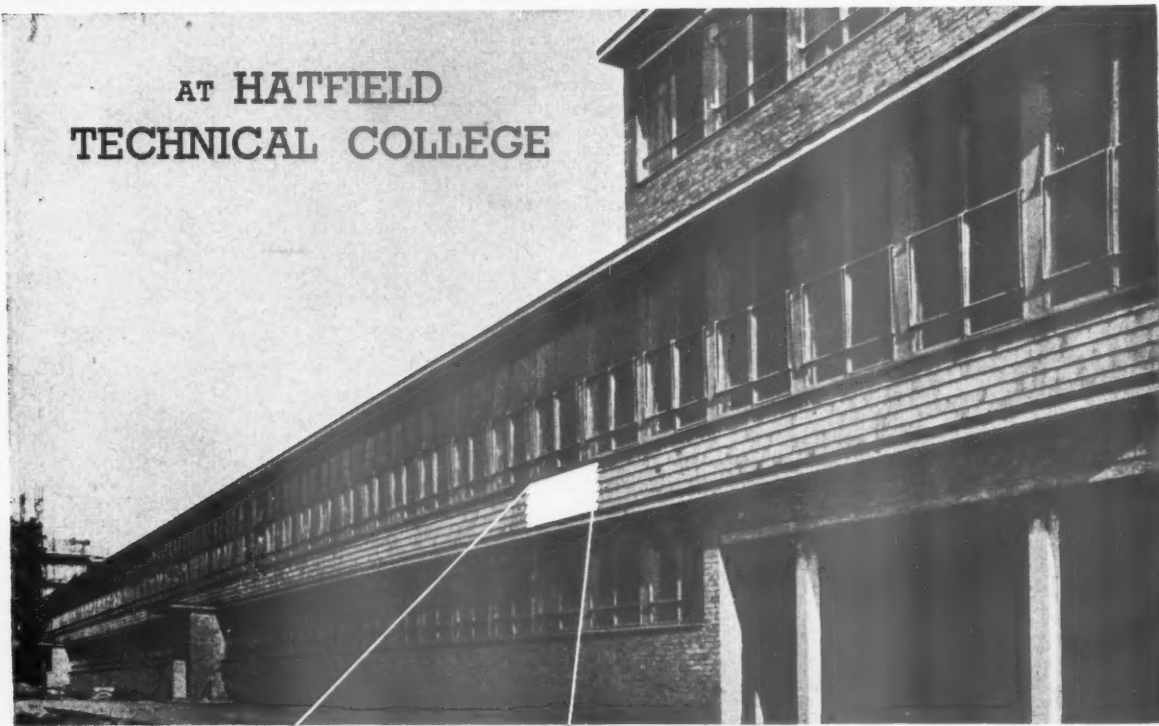
The coal-electric Sadia works in conjunction with a fire-back boiler or slow combustion stove. The water is heated by solid fuel in the winter and by electricity in the summer. An ideal arrangement where solid fuel is used for space heating.



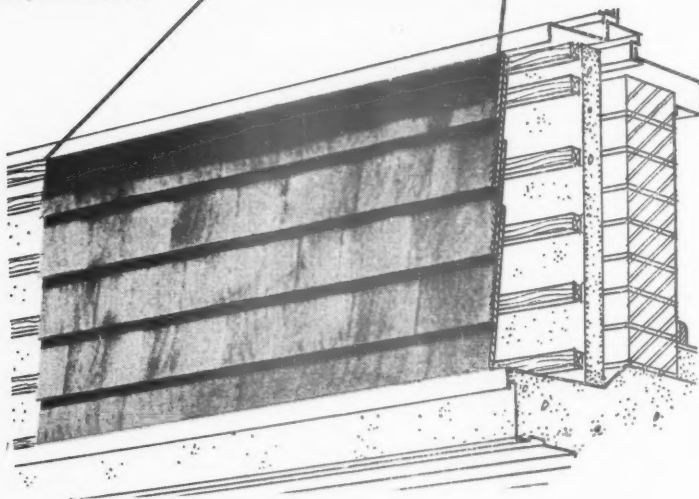


# COLT *Canadian Cedar Wood* SHINGLES

AT HATFIELD  
TECHNICAL COLLEGE



Architects: *Easton & Robertson*,  
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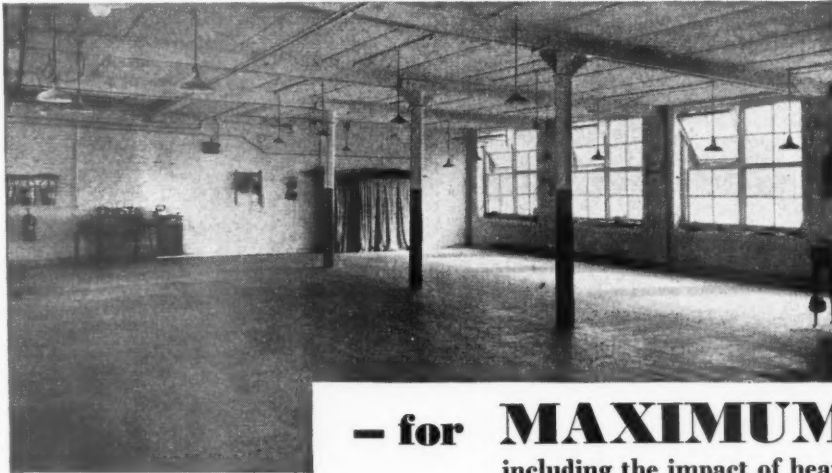
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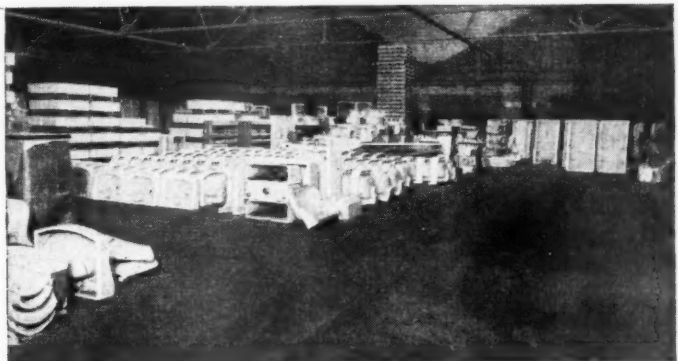
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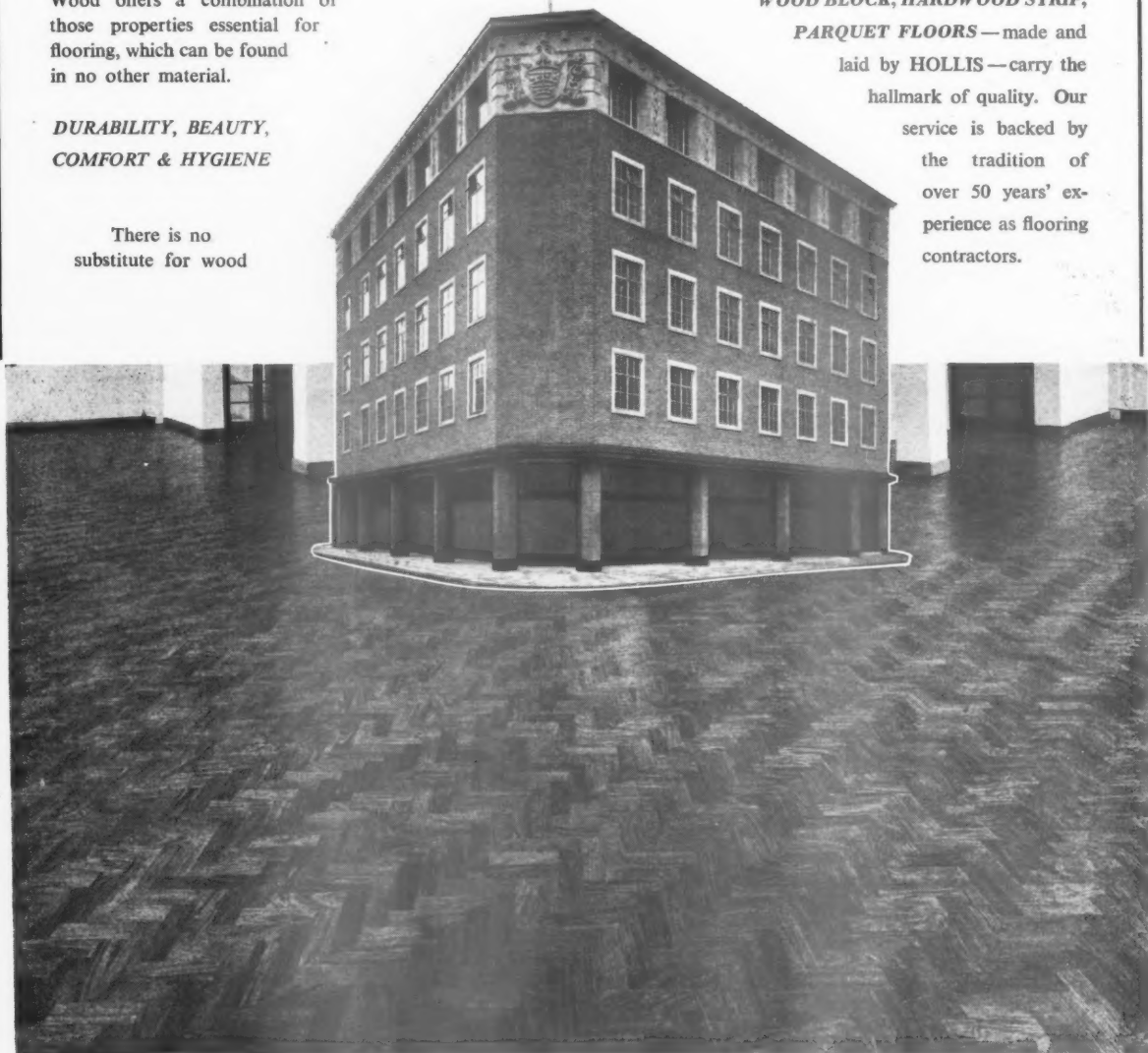
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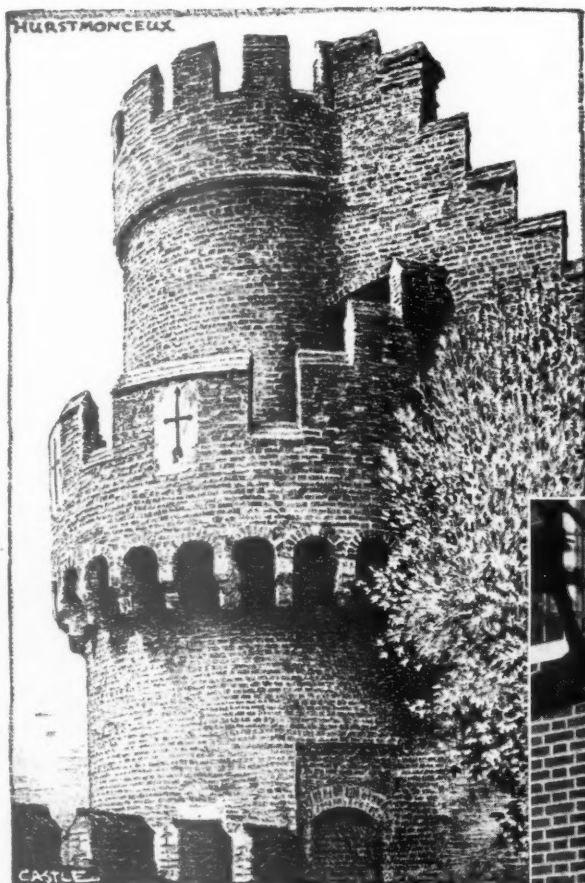
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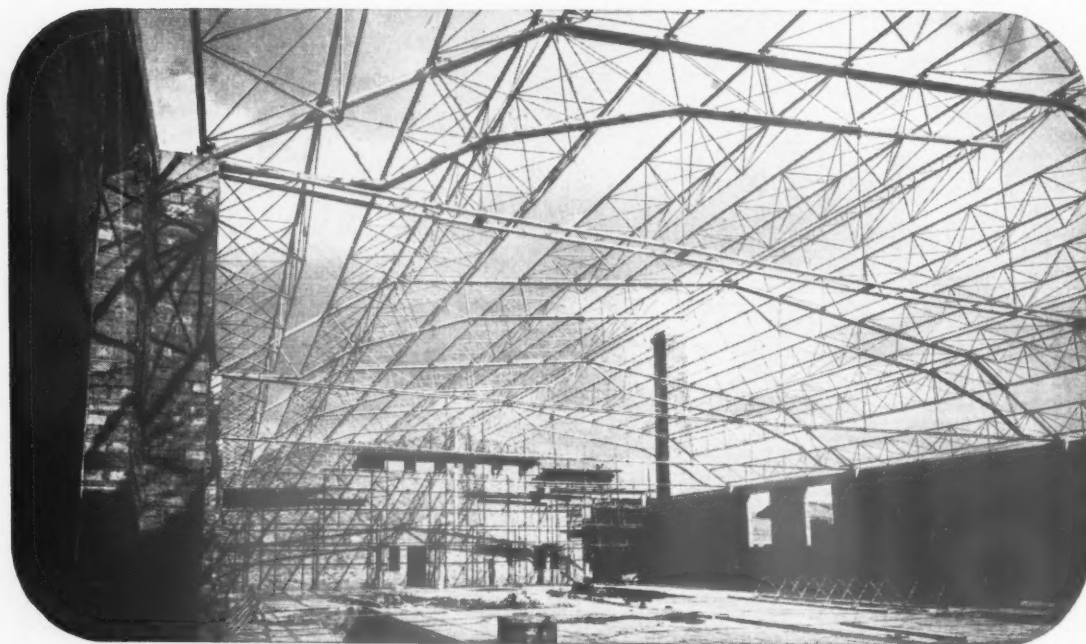
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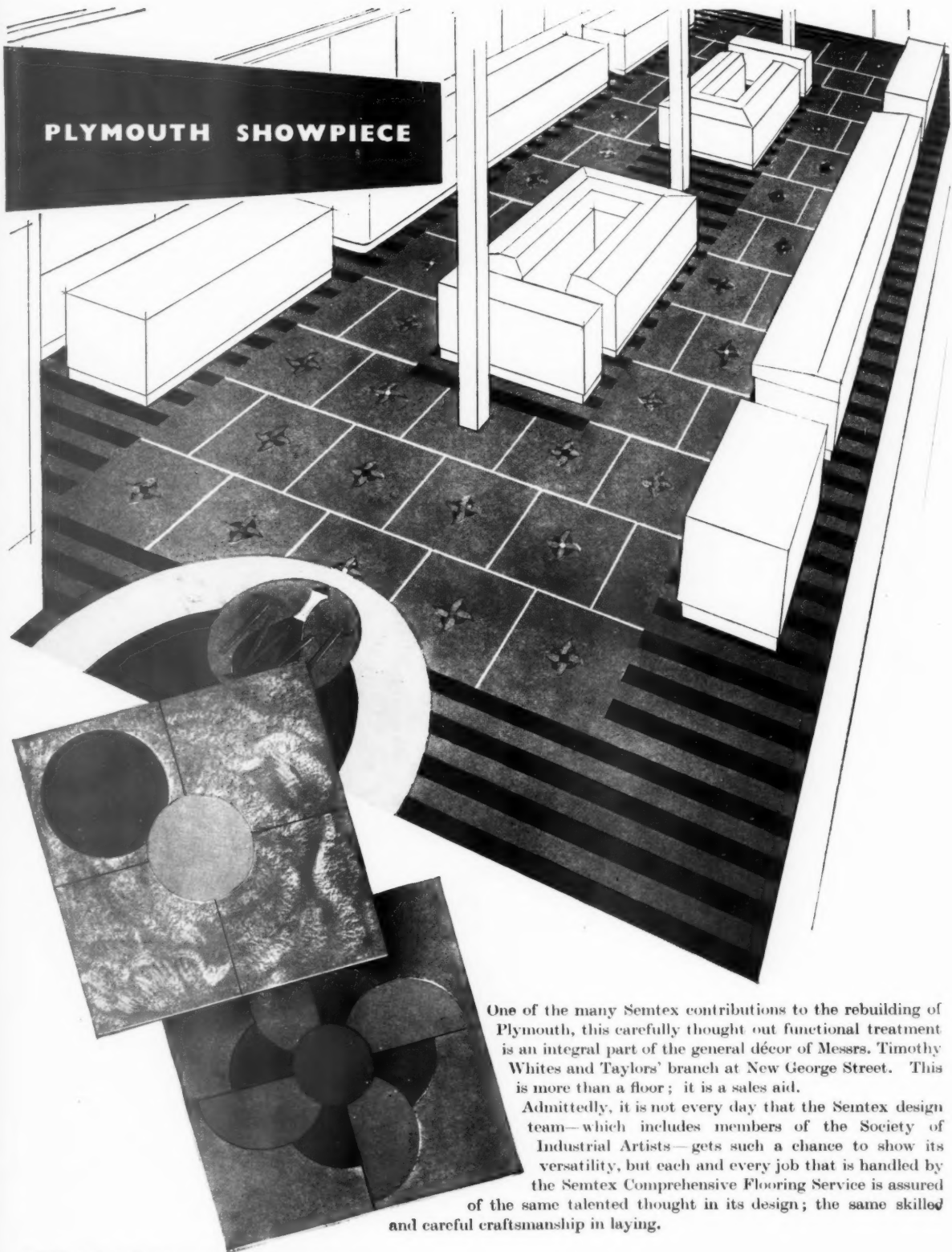


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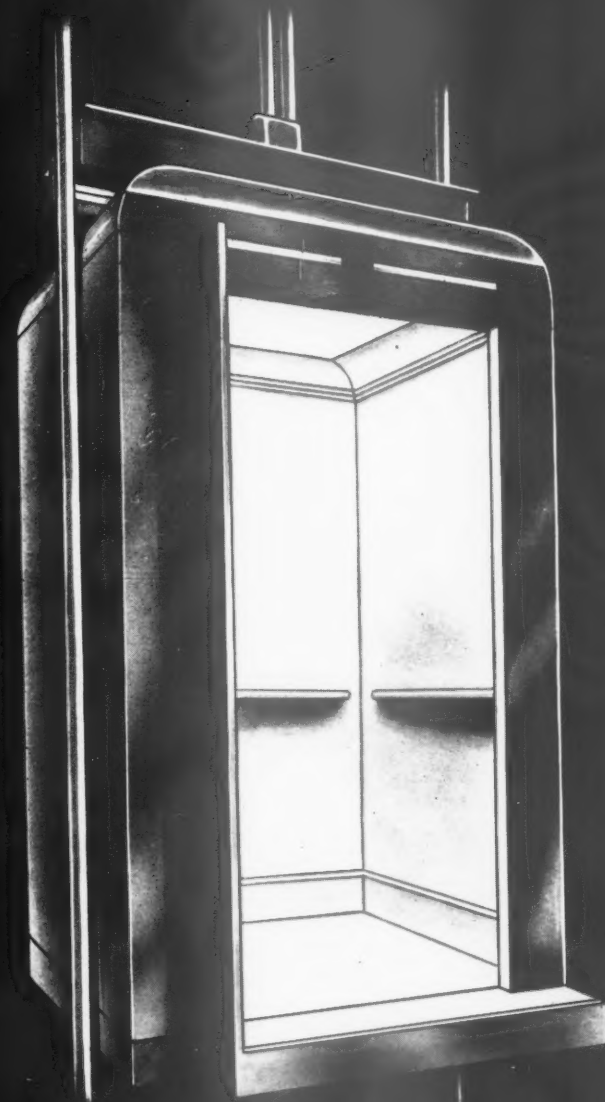
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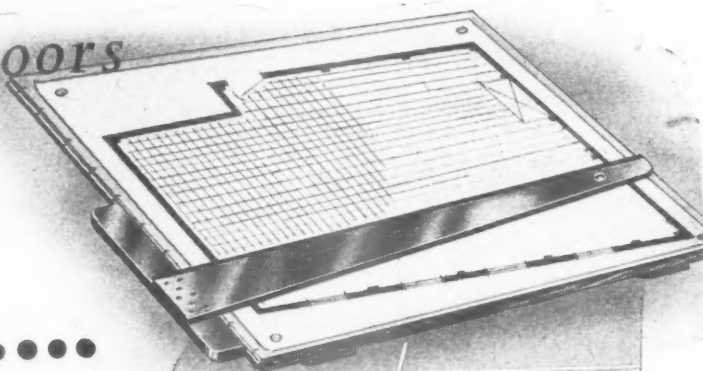
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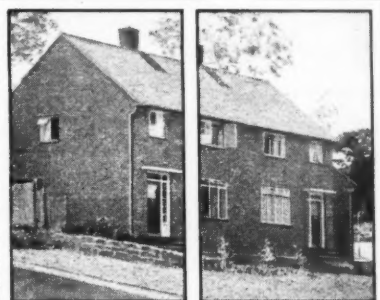
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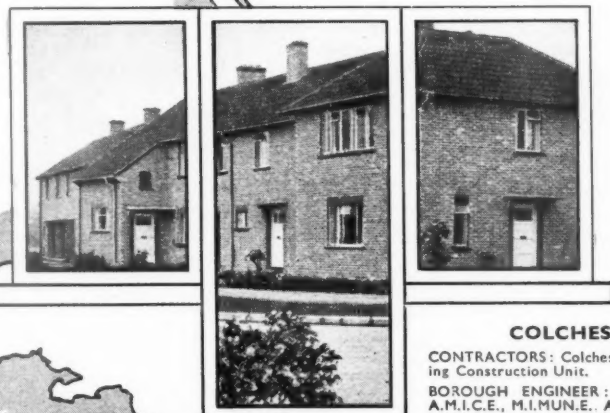
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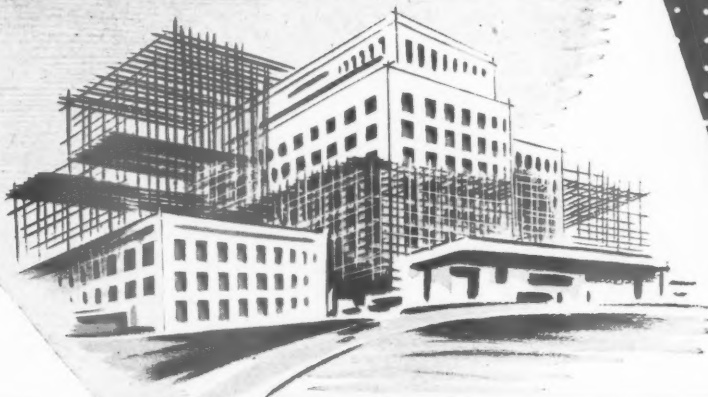
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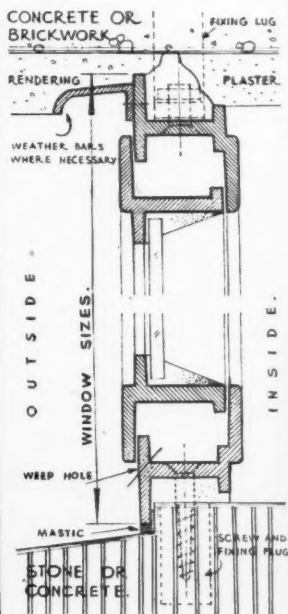
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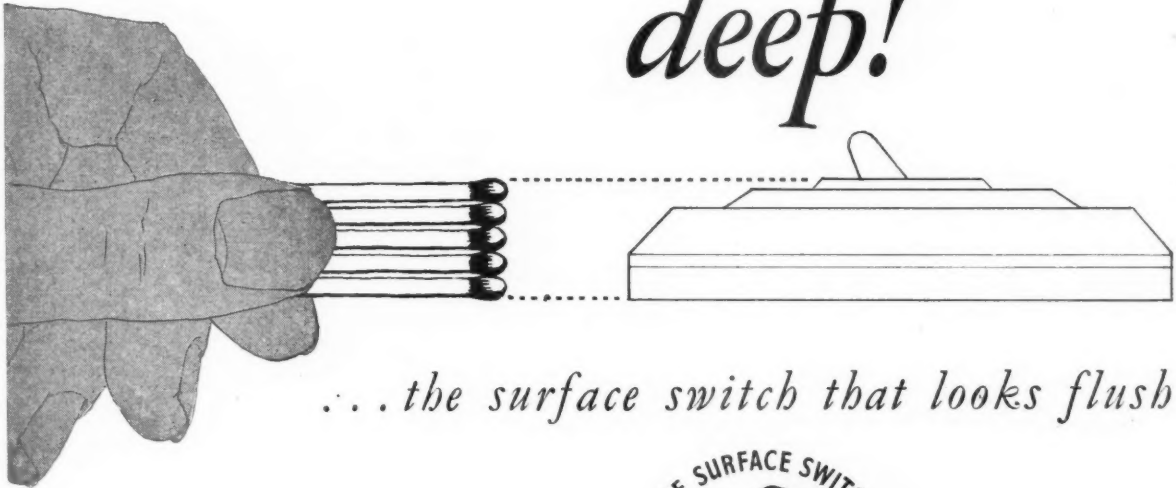
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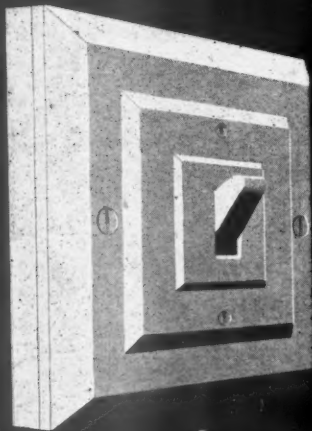
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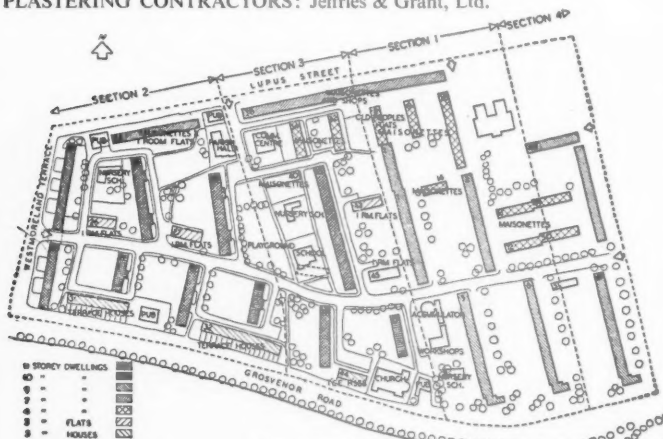
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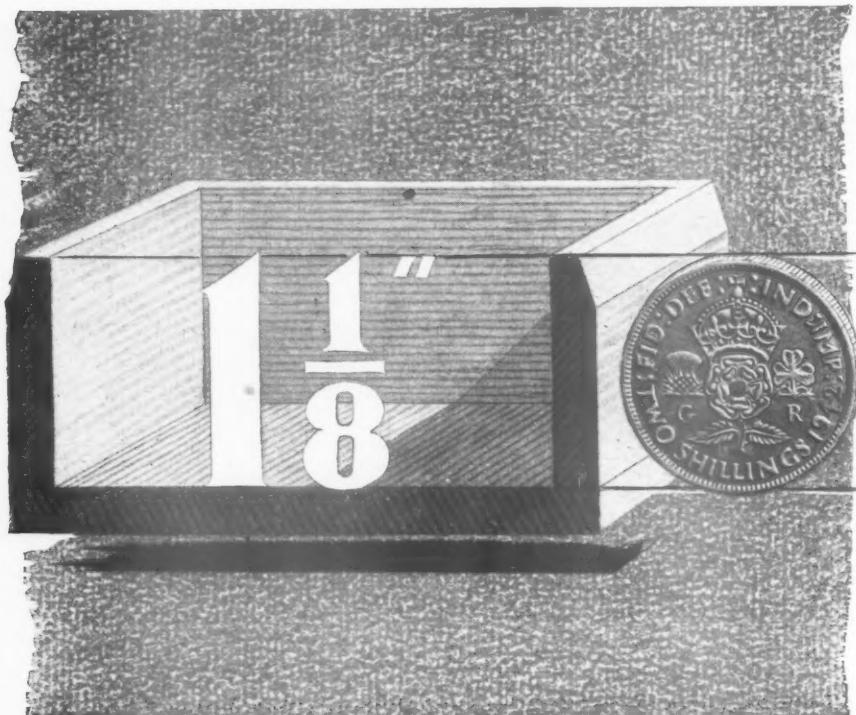
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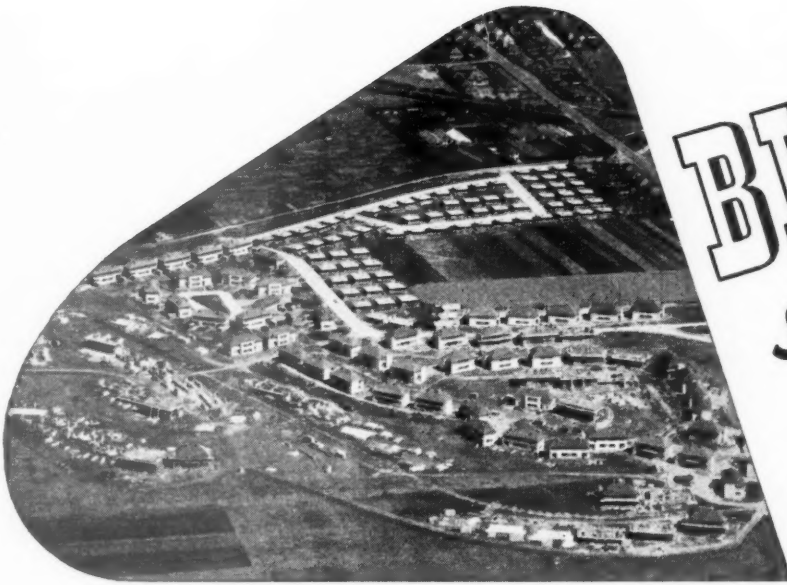
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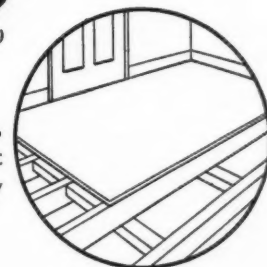
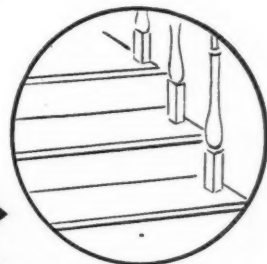
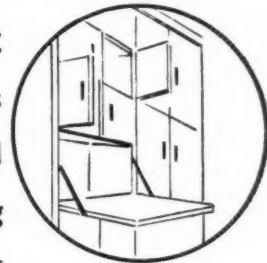
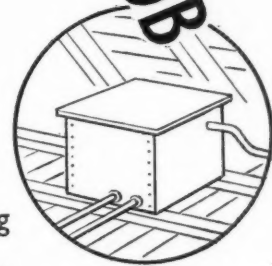
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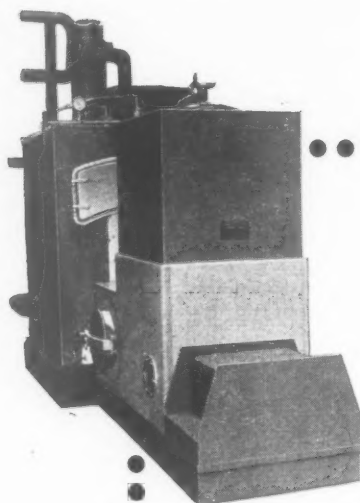
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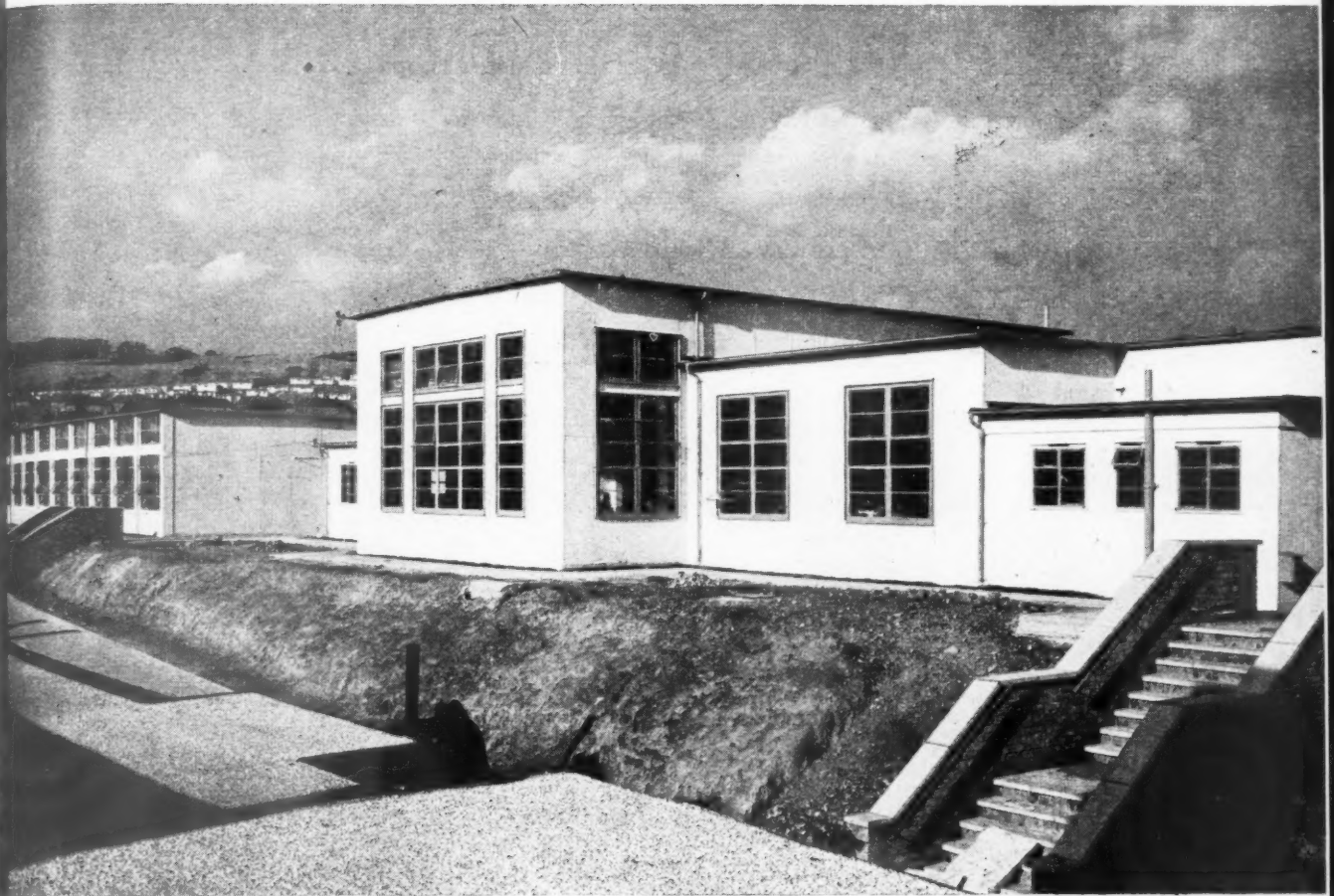
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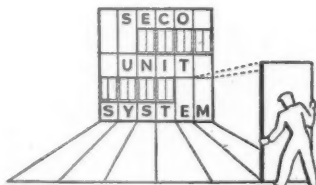
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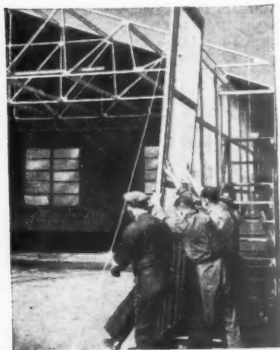
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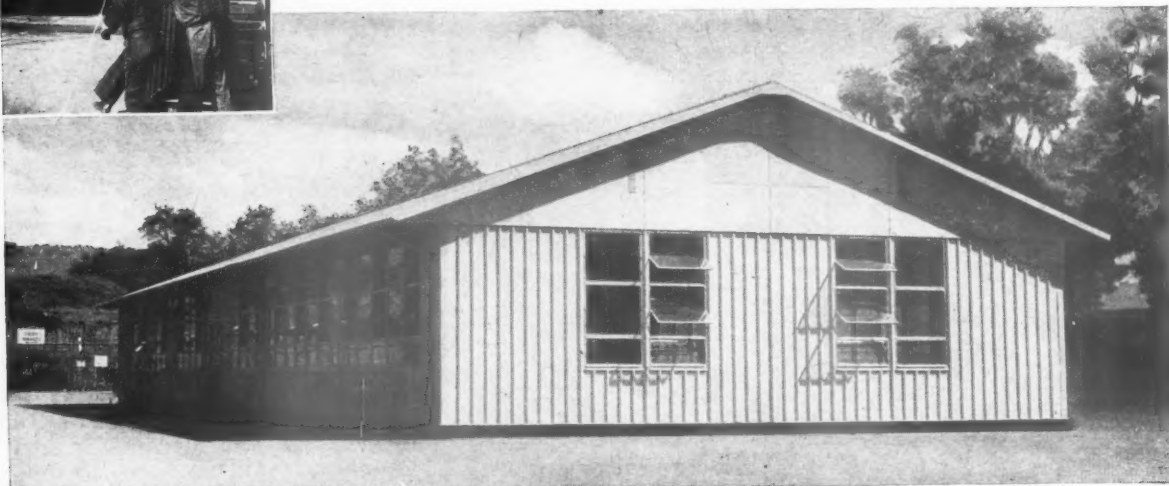
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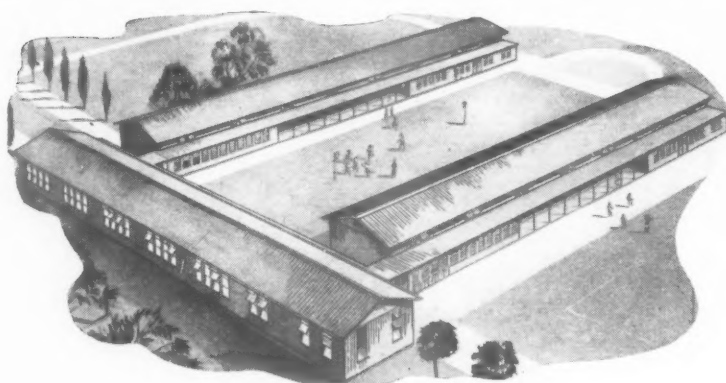
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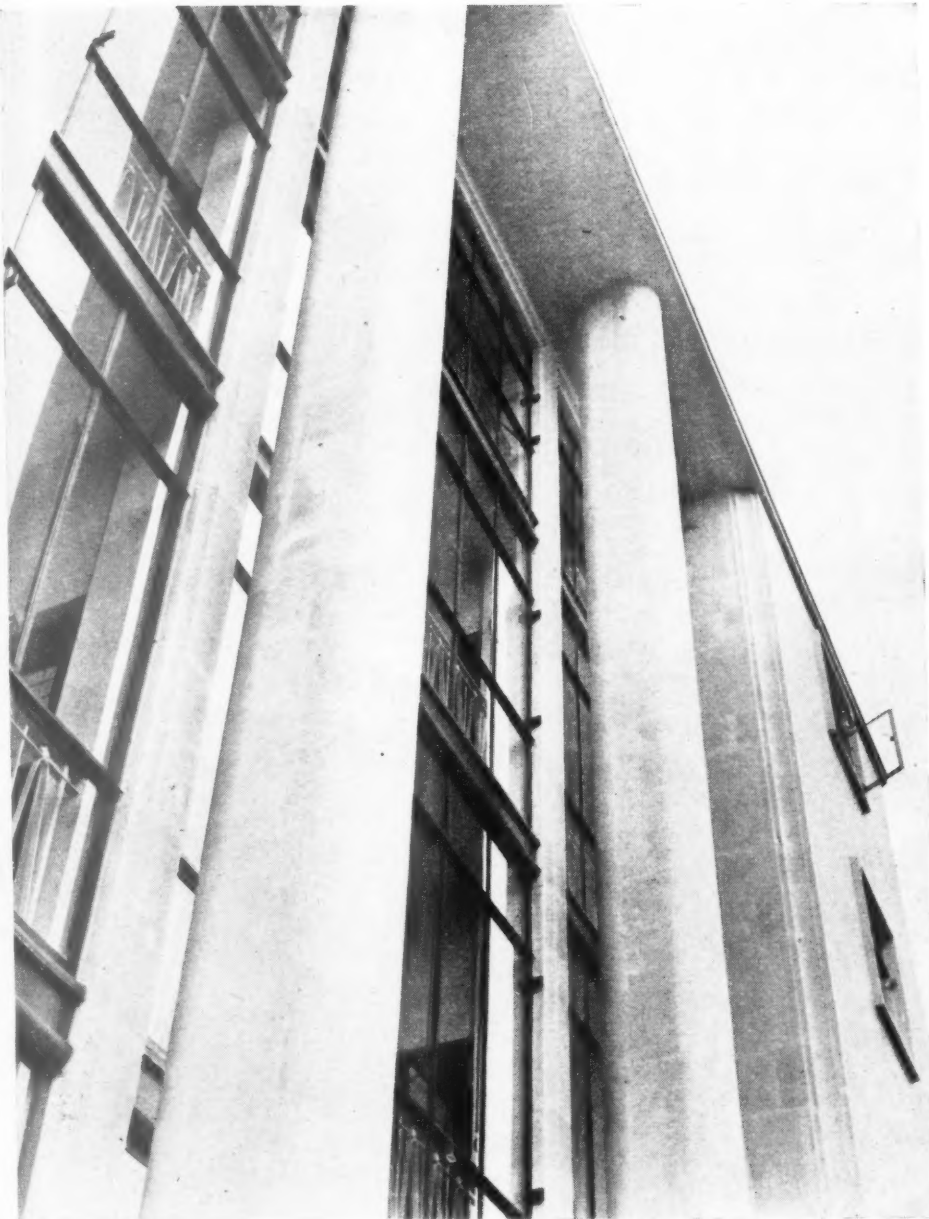
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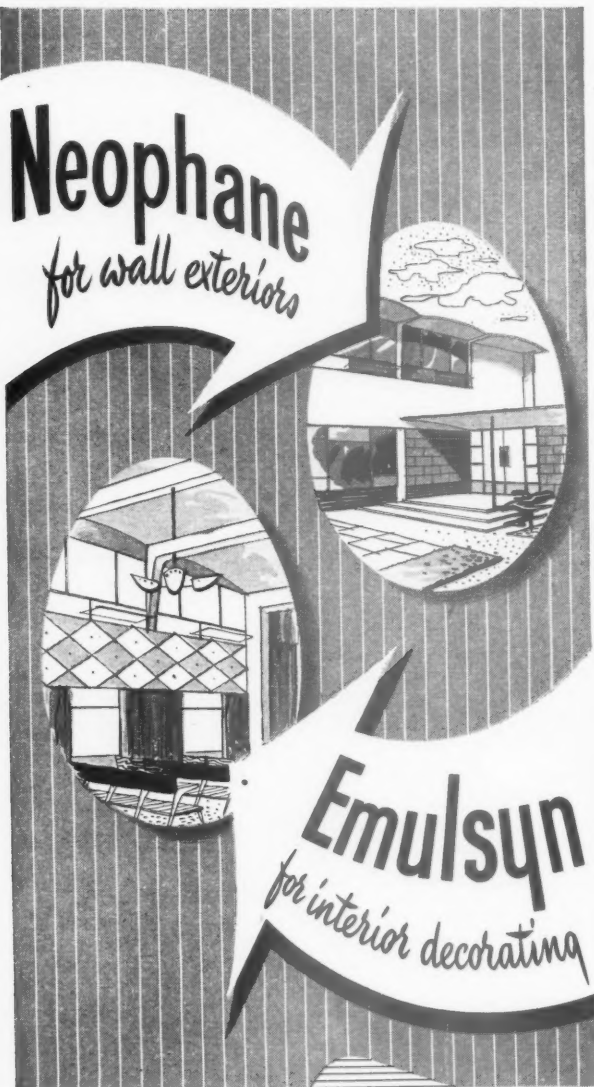
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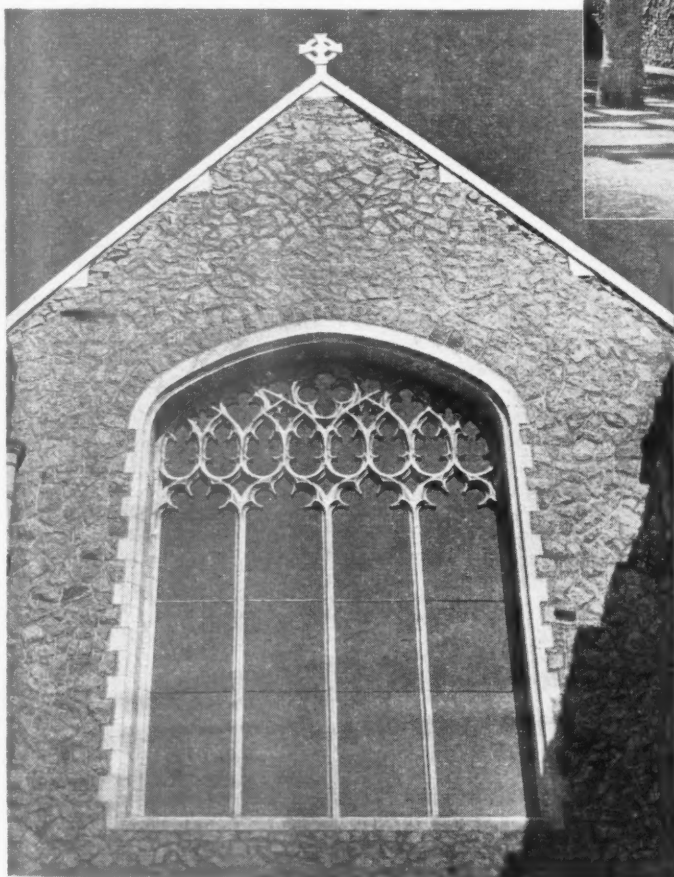
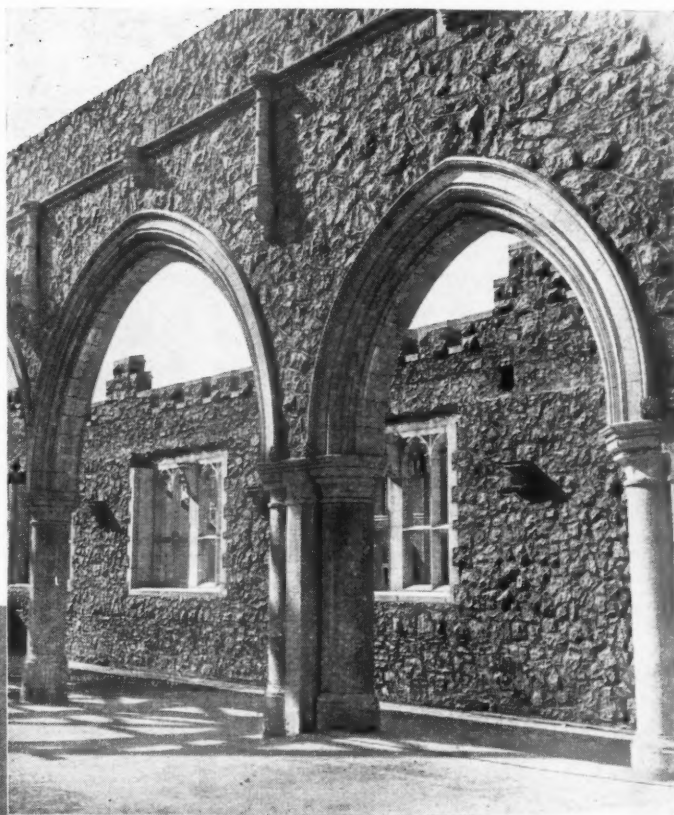
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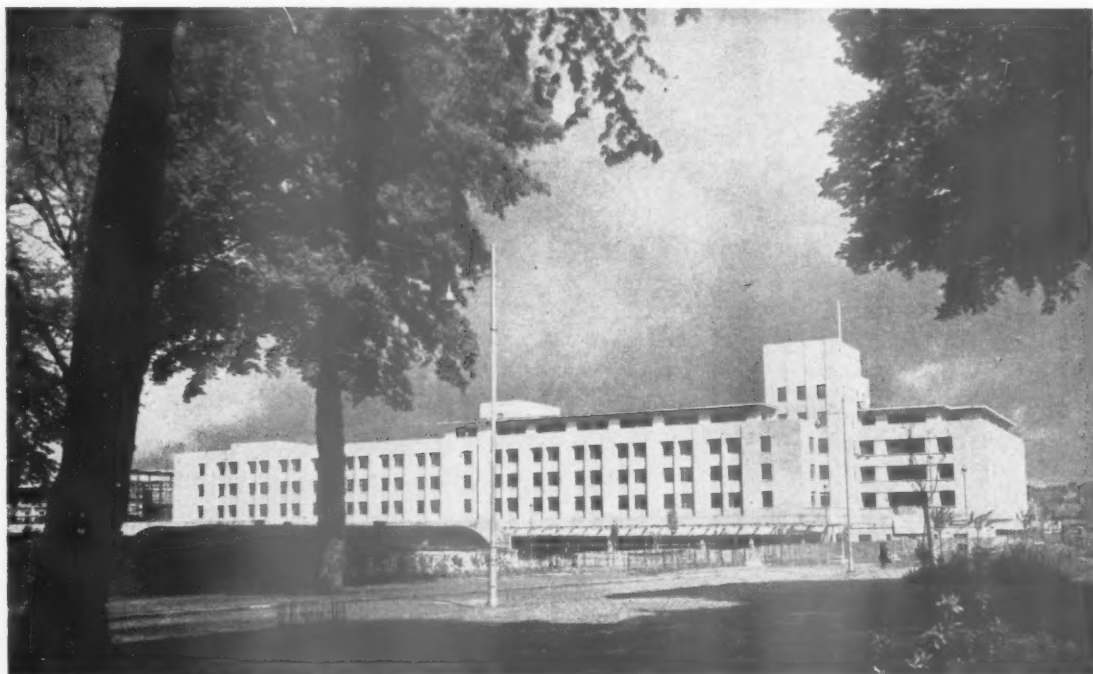


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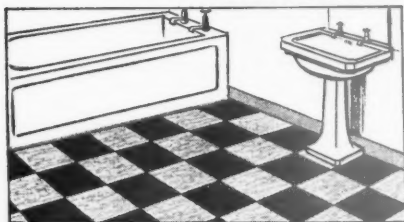
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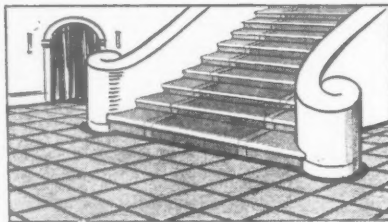
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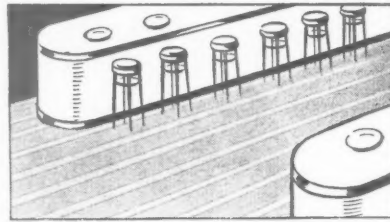
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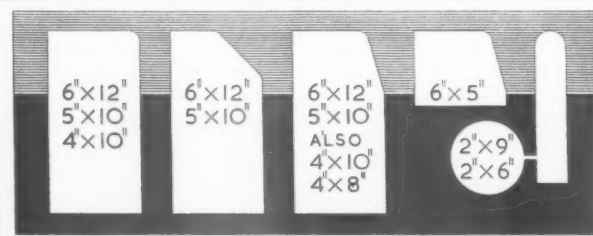
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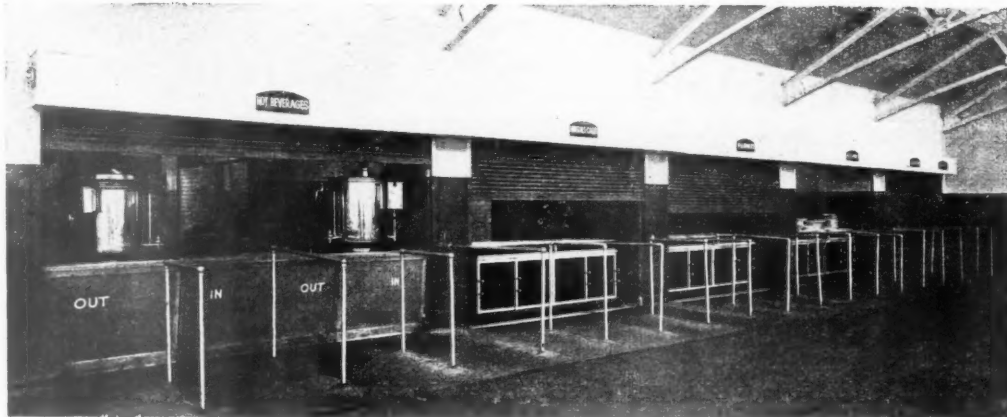
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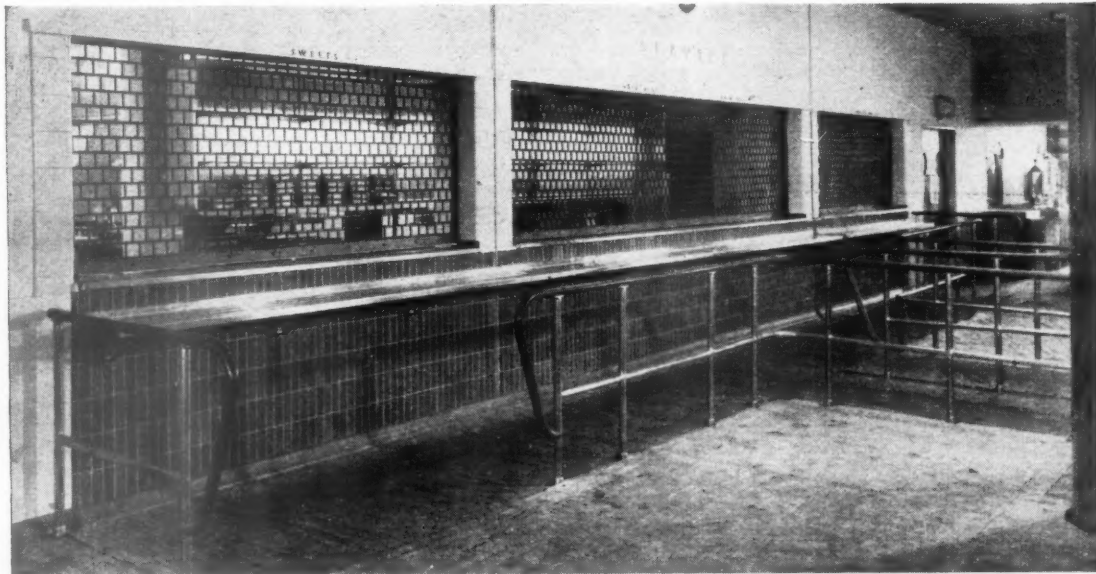


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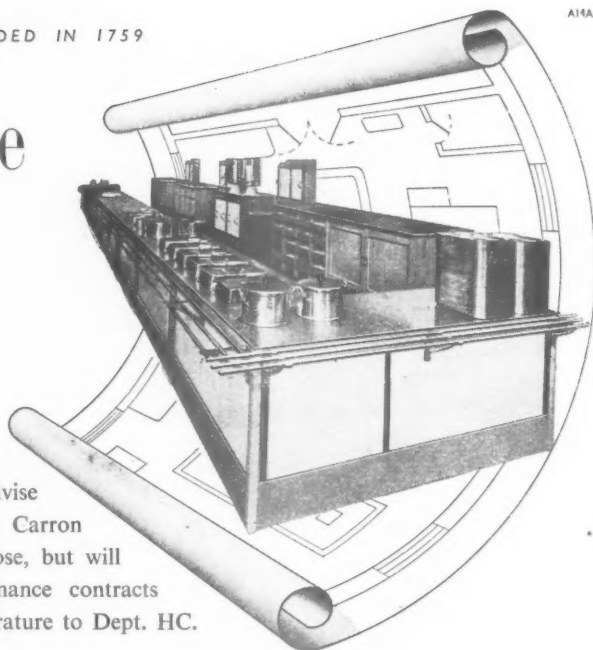
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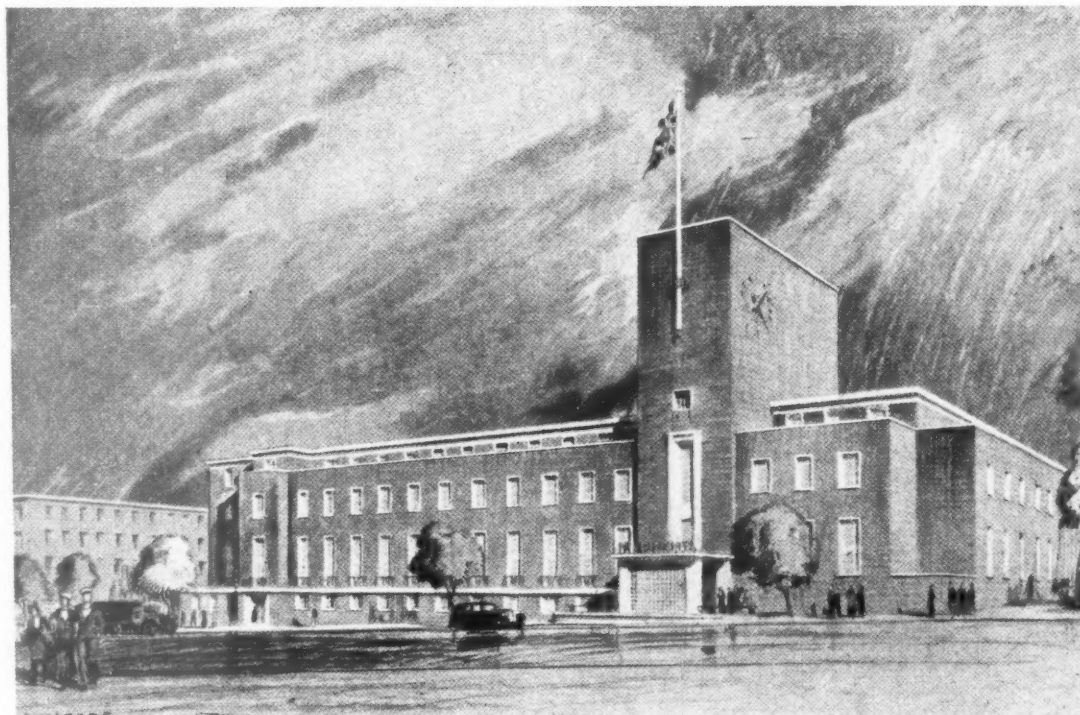
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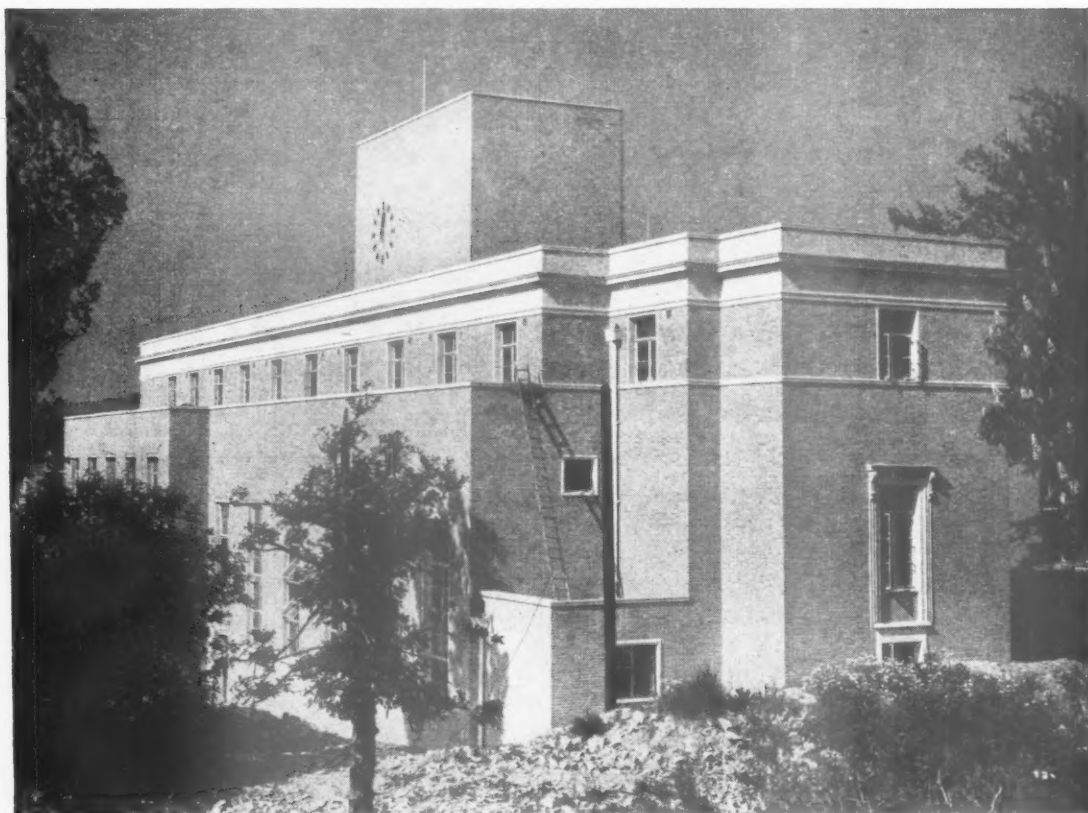
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## SELF-BUILDING

While Harold Macmillan is doing his best to encourage the self-build groups, both the builders and the operatives seem to disapprove of the whole idea on the very practical grounds that they may be done out of a job or two. No doubt the basic reason for all self-build groups is a desire to short-circuit the queue and to have something to live in within the reasonably foreseeable future, but may it not also be something to do with present-day costs?

Odd repairs and re-decorations are beyond the pocket of all but the wealthy and house-building prices are the same way. If you build a house, surely you make a profit? Let us say the price might be £1,000; and that it would be

made up, half and half, of materials and labour costs. Even allowing materials at £600 (for wastage and inefficiency), at the end of two years or so you have an asset worth £1,000. So you have made £200 a year, which should be free of income tax until the revenue boys find a method of catching up. What seems not to be settled yet is when the house becomes yours. The groups are registered as charities and qualify for the sixty-year subsidy, so maybe the profit goes only to your descendants.

There seems to be one other major difficulty. Assume again two years for the completion of all the houses in the group; perhaps one-third of them are finished in twelve months and you have all agreed to pull the names of their owners from a hat. Fair enough—but one-third of your labour force then moves in and wants to get on with the gardens. How do you persuade (or bully) the lucky ones into going on building other people's houses?

## HONOURS FOR THE PROFESSION

There's no need for me to tell you how well deserved are the Birthday Honours awarded to John Summerson (CBE) and to F. R. Yerbury (OBE), director of the Building Centre and consulting editor to the JOURNAL. The name of L. H. Wilson (OBE) is less familiar; but readers of the survey of the rebuilding of Canterbury in the JOURNAL for April 24 will know him as the able chief architect and planner of that city. Another well merited award. My congratulations to all three, and to others associated with the profession whose names are published on page 713.

## THE IMPORTANCE OF BEING OSBERT

Osbert Lancaster's cap is so full of feathers nowadays that he looks like a

Seminole. Paleface admirers should not miss his current show at the Redfern—consisting of ballet designs and some topographical notes which will probably be familiar enough to many architects.

In the growing gloom and heart-searching among professional painters it is refreshing to find that ex-Slade student Lancaster retains the charm and enthusiasm of the amateur—in the very best sense. Not only are these gouache paintings gay and cheerful—Lancaster is always a vigorous one for colour—they are evocative. The street scenes of Nicosia and Hydra with the paraphernalia of goats, chickens sgraffitti and bicycles, give a much clearer understanding of the classical Mediterranean than all the tomes of the archeologist.

Those who feared that Lancaster's recent American tour had gone unrecorded will be relieved also to see characteristic portraits of the Hudson River "stick-style" houses and the 3rd Avenue "L." You can't beat him at this sort of portraiture, so it's safe to say "if you know of a better seminole go to it."

## SOUTH BANK RATE

Spurred on by last week's AJ frontispiece ASTRAGAL has taken another lunch-time stroll along the South Bank and can report slow, but definite, progress. Reg Butler's iron-clad figure has moved to the front of the Thames-side Restaurant—which is now open and busy. A ticket office and tennis court occupy the sports arena, and planting and paving are beginning to overtake the road-drills by the Boat



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Dock. Riggers were dismantling some of the less necessary wirework to the seaside marts, barges were dredging for old moorings, a number of nicely designed litter bins have appeared, and against the gleaming flank of the Festival Hall a model, dark-goggled, and blood-taloned, posed for a photographer with feet askew and mouth fashionably ajar.

Pausing only long enough to close his own again, and to collect once more his thoughts ASTRAGAL concluded that it is all really beginning to look very nice indeed. It is not until you see all the green turf freshly unrolled along the promenades that you realize what a lot the South Bank lost by not being able to afford the space for more grass. Common ground is all very well but it needs the help of an occasional lawn.

#### ARCHITECT-AUTHOR

Architecture, we are all told, should reflect the culture, history and general social outlook of its country, but far too many of us who go abroad do nothing but look at buildings and spend the rest of the time eating. Most guide books are far too uncritical, and easily become mere catalogues of severely practical data. But although Eric de Maré has assembled a large quantity of facts in his new book on Scandinavia, he presents them from the architect's viewpoint.\*

Finland and Lapland are omitted, and about half the book is given over to Sweden, Norway and Denmark sharing the rest. However, in the short space available Mr. de Maré has sketched in the essential background, and most of us will wish we had read something like this before we went. Swedish speaking—even having worked in a Stockholm architect's office—Mr. de Maré starts off with all the advantages, and no JOURNAL reader will ask whether he is a good photographer. The only things wrong with the book are the maps, which ought to be about four times as big.

#### CORRECTION

Last week's howling error: the date of Jack Isaac's paper on "Gothick Taste" at the RIBA. The date is: June 17.

ASTRAGAL

\* Scandinavia (B. T. Batsford, 21s.).



Landscaping on the South Bank. Astragal comments on this page.



#### BIRTHDAY HONOURS

##### *Award to Journal Editor*

Among the people to receive the first Birthday Honours conferred by the Queen are F. R. Yerbury (OBE), consulting editor to the JOURNAL and director of the Building Centre; L. H. Wilson (OBE), city architect and planning officer, Canterbury, whose work was described on April 24 in the first of the JOURNAL's surveys of the rebuilding of bombed towns; and John Summerson (CBE), architectural critic and curator of the Soane Museum.

The CBE was also awarded to A. S. Charlton, assistant secretary MOHLG; N. Black, Director of Lands and Accommodation MOW.

Amongst other recipients of the OBE were: H. Carr, county architect and planning officer, Montgomeryshire; T. E. North, architect and planning officer, West Ham County Borough; C. W. Childs, senior architect MOE; G. W. Chandler, deputy city engineer and surveyor, Birmingham; K. C. H. Martin, deputy chief surveyor, Air Ministry.

Amongst others, the MBE was awarded to L. H. Clarke, borough engineer and archi-

tect, Harrogate; G. L. Grant, surveyor MOW; L. C. Gray, divisional secretary and organizer, Amalgamated Union of Building Trade Workers; P. Haslam, Chairman, North West Federation of Federation of Building Trades Operatives.

#### AA

##### *Council Elections*

The officers of the Architectural Association for the session June 1, 1952, to May 31, 1953, are as follows: President: A. R. F. Anderson; Vice-Presidents: Sir Hugh Casson, Peter Shephard; Hon. Secretary: Gontran Goulden; Hon. Treasurer: Bryan Westwood; Hon. Editor: W. W. Atkinson; Hon. Librarian: The Hon. Godfrey Samuel.

Ordinary members of the Council, for the same period, are: G. Anthony Atkinson, J. M. Austin-Smith, John Brandon-Jones, Anthony M. Chitty, D. Clarke Hall, Neville Conder, Hon. R. A. de Yarburgh-Bateson, B. A. le Mare, Miss Barbara Price, Raglan Squire, Prof. Basil Ward.

#### RIBA

##### *Presentation Postponed*

The RIBA has announced with regret that, owing to the illness of G. Grey Wornum, it has again been necessary to postpone the presentation of the Royal Gold Medal. The ceremony was to have been held on June 16. It is hoped that Mr. Wornum's health will have sufficiently improved to allow the ceremony to take place later in the year.

#### CORONATION

##### *Souvenirs Committee*

The Council of Industrial Design has formed a committee, under the chairmanship of Audrey Withers, to promote a high standard of design in souvenirs made by British manufacturers for the coronation. In the first instance, designs, in the form of drawings, models or prototypes, may be submitted for approval. Designs that are



## Four Years' Progress

The top photograph shows Plymouth's city centre in 1948—the blitzed buildings cleared away, sites levelled and the first line of the Abercrombie-Paton Watson plan for the centre laid out—the straight east to west road, called Royal Parade, which will divide the shopping area from the civic centre. Below is the same view today. In the foreground is the church of St. Andrew, roofed and restored by Frederick Etchells. On the right of the com-

pleted Royal Parade are the shops and office blocks illustrated in this special issue of the JOURNAL on post-war reconstruction in Plymouth. Parallel with Royal Parade, in the background, is part of the new New George St., and, at right angles to both streets, the first portion of the proposed Armada Way—the great vista which will run from the railway station to the Hoe. A photograph of the latter appears on page 717.



accepted by the committee will be included in a special section of the Council's *Design Review*. The committee is complementary to the Coronation Medal Panel: see the JOURNAL for May 29.

All souvenirs should be submitted to the secretary, Coronation Souvenirs Committee, Tilbury House, Petty France, S.W.1.

## LETTERS

*Ernest Marples, M.P.*

Parliamentary Secretary to Minister of Housing and Local Government

### Issue of Block Licences

SIR,—One conclusion reached in the leading article in your issue of May 22 appears to have been based on the misapprehension that the Minister of Housing and Local Government has not sanctioned the issue of block licences to private builders. Your leader urged Mr. Macmillan "to try out block licences."

I believe that it would be in the interest of the housing drive generally, and of the private builders themselves, if you would draw their attention to Circular No. 21/52 sent by my Ministry to local housing authorities on February 12 this year. Paragraph 3 of this Circular called attention to the need for the issue of block licences in suitable circumstances, and said that such licences had already been issued before the date of the circular. Moreover, it said that the occupants of such houses when completed should be approved by the local authority.

ERNEST MARPLES, M.P.

Whitehall.

Paragraph 3 of the Circular No. 21/52, reads as follows:

Continuity of building is a material factor in the progress and efficiency of private building. Where a builder desires to build a number of houses on a site, such continuity, and the assurance that houses should go and be seen to go to persons in need of a house, can be satisfied by issuing licences in a block for a suitable number of houses at the same time on condition that the occupants of the houses when completed are approved by the Authority. Such arrangements have, it is understood, already been made as a matter of current administration by a number of Local Authorities, and the Minister agrees that it is appropriate to make them.

## DIARY

*Gothick Taste.* Jack Isaacs. At 66, Portland Place, W.1. (Sponsor: RIBA.) 6 p.m.  
JUNE 17

*Exhibition of Planning Projects on View at CIAM Congress last year.* At BC, 26, Store Street, Tottenham Court Road, W.C.1. Weekdays, 9.30 a.m. to 5 p.m. Saturdays, 9.30 a.m. to 1 p.m.

UNTIL JUNE 21

*Top Floor Flat: Exhibition.* At Heal & Son, Ltd., 196, Tottenham Court Road, W.1. Normal shopping hours.

UNTIL JUNE 24

*Tomorrow's Furniture: Exhibition.* At ICA, 17-18, Dover Street, W.1. Weekdays, 10 a.m. to 5 p.m. Sundays 2 p.m. to 6 p.m.

UNTIL JUNE 29

## The Editors

### CREATING A MONUMENT

PLYMOUTH stands unique amongst the many blitzed cities engaged in post-war planning and development.

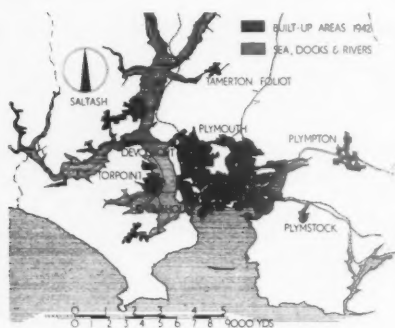
Not so much for the quantity of reconstruction, which, when relative sizes of population are compared, may not be much in advance of, for instance, Exeter, but unique because of the radical nature of the planning proposals which have been executed in combination with a large amount of building. This week's frontispiece illustrates the point clearly with regard to the city centre. Here is a complete break away from the old city of unplanned development. The geometric lines of a new road pattern obliterate the old chaos as though it had never been. The photograph of the main shopping street, on page 720, might be of a new town on a virgin site in South Africa, or Canada, rather than the rebuilding of an ancient city. This is the city's unique quality. In centuries to come, however the nation's economy may dictate future town planning development, the three streets of offices and shops erected in the last few years will stand as a monument to the town planning ideals of the 'thirties and early 'forties. These qualities, both in town planning and, because town planning logically tends to dictate the type of building which accompanies it, in architecture, are unlikely to be found to a comparable scale anywhere else in the British Isles.

The genius who should be given much of the credit for this achievement, and he is a genius at getting things done, is the planning officer, the city's engineer and surveyor, J. Paton Watson. With Sir Patrick Abercrombie as consultant he prepared the plan which was published as a book in 1943. He has kept closely to the principles laid down in that plan, and this has no doubt enabled him to concentrate his considerable energies on getting the plan translated into three dimensions. The success of this policy can be appreciated by a study of the following pages of this week's JOURNAL which are devoted to recording, necessarily in brief, the major new buildings of the city centre and the large housing estates on the outskirts. This is the second of a series of surveys of the rebuilding of the blitzed cities to be published in the JOURNAL during the year.

After stating that the new city centre is a monument to the civic designers' ideals of the 'thirties and 'forties, we should, of course, add the corollary: there is no need for any more of it—unless the Plymouth citizens (and theirs, after all, is the ultimate decision) insist. Mr. Paton Watson is obviously aware that the essence of the art of town planning is flexibility, the ability to alter and adapt original designs as the conditions which shaped them alter. There are illustrations of this awareness described in the article overleaf.

Mr. Paton Watson has achieved remarkable results by sticking fairly closely to a set plan. His success as a planner will be praiseworthy indeed if he can link a high rate of reconstruction to a sensitivity towards current trends in civic design.





*The city of Plymouth, following Canterbury, is the second city in a series of special articles to appear in the JOURNAL which are on the post-war reconstruction and planning of our blitzed cities. Most of this week's issue consists of brief records of major buildings which have been designed and built or are now under construction. On the following four pages, however, a short survey is made of the city's plan. This is necessarily curtailed because the official development plan is not yet ready, and the following outline has had to be based on the original planning report of 1943.*

# PLYMOUTH

A SURVEY BY D. RIGBY CHILDS AND D.A.C.A. BOYNE

**P**LYMOUTH is to be reckoned as first and foremost a naval base, but it is also a military, a regional shopping and a tourist centre, an airport as well as a seaport (the first port of call for incoming liners from America), a town of light industry, a residential town, a fishing town and a centre for farming in the west country. It is also a city which is rapidly acquiring a brand new shopping centre (see page 714) in place of a congested, disorderly development.

## the plan

Following the air raids of 1941 the City Council, under the guidance of the Lord Mayor, Viscount Astor, instructed their Surveyor, J. Paton Watson and Professor Abercrombie, consultant, to prepare a plan for a new Plymouth. This plan, which was published in 1943, covered a considerably larger area than just the city itself and it was given a fine reception. It has been closely adhered to for all new building and will form the basis for the official development plan which, rather surprisingly, considering that the Ministry asked for plans to be submitted by the summer of 1951, is not yet ready.

## physical features

The plan at the top of the page shows clearly one of three striking features about the city. This is that it is "a water-girt city standing on a tongue of land between the two valleys of the Tamar and the Plym." The second feature is that the city of Plymouth is a union of three towns: the old county borough of Plymouth; the small urban district of Stonehouse; and the borough of Devonport which grew up around the Royal Dockyard founded by William of Orange. Until 1914 the three were unrelated units. Each developed in its own wayward fashion.

Plymouth's third feature is again a geographical one. The land is uneven; it abounds with the small, steep, rounded green hills for which Devon is famous. An approach from inland reveals the land formation as, firstly, three, roughly parallel, ranges of hills which are joined to each other by a central ridge, the two valleys formed on each side of this ridge running down to the rivers Tamar and Plym. The first hill is some  $3\frac{1}{2}$  miles from the Sound and the last about 2 miles. On these three hill tops are sited most of the new housing estates. From the hill closest to the sea projects two spurs. The west one runs down to Devonport, the other runs in a curve, the tail end gradually swinging westwards as it falls before ending in a final rise which forms the Hoe itself, plumb in the centre of the Sound.

This physical aspect of the city is described at length because of the marked effect it has had on the layout of the housing estates which naturally, on grounds of economy,

have been sited on the relatively flat crowns of the outlying hills. It is also the reason for a major criticism of the axial plan for the city centre, both in the original concept shown in the 1943 plan and in the revised version which has only just been prepared. We will return to this criticism later.

## the city centre

The 1943 Plymouth plan is notable for its forthright proposals for the city centre. The whole of the central area for planning purposes was treated as a cleared site except for such few important and still standing buildings as could be worked into the plan. No case, the authors considered, could be made for basing a plan upon the existing street layout, so deficient was it by modern standards. Instead, they proposed a completely new inner ring road for the segregation of through, and local, traffic. Around and within the ring road, the city centre was divided into a series of precincts, surrounded by traffic roads, each precinct so designed to prevent or discourage through-traffic entering, as shown in the plans on page 719. The old town remains practically untouched by planning to date. It escaped serious damage from bombing but it does need careful restoration. "Our aim," the authors wrote, "would be to make new Plymouth as modern as possible, but to keep old Plymouth as antique as is compatible with practical use and sanitariness."

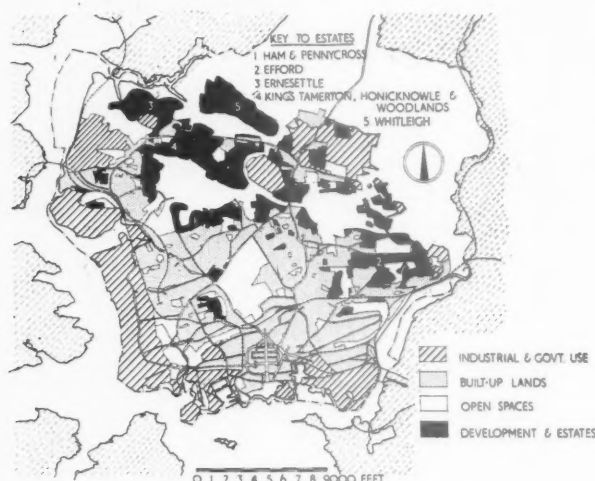
The proposed formal layout of gardens and buildings in the Parade, the centre of the old city, has not yet been attempted (see plan on page 719) nor has the monumental treatment of the Barbican Quay (see photograph opposite) with "a simple, yet dignified arrangement of wall, seat and gardens which would set it apart from the traffic of the main street and give it that feeling of seclusion and retreat so necessary to its position as the original highway to the new countries across the sea." (The Mayflower stone is in close proximity.) It is to be hoped that no proposals of a formal or monumental nature will ever be carried out in this remaining small part of Plymouth which has as much character and liveliness of pattern, composition and texture as the whole of the rest of the city put together.

The city planning officer when asked about the future of this area did not press the proposals of the '43 plan but suggested that the area should be given over to one architect to develop as a whole—turning the gaunt stone dwellings and the unused warehouses into flats, studios and rooms for holidaymakers and sightseers, while ensuring that the rightful users of the quays can go about their work and continue to maintain the essentially functional character of the harbour area. It is hoped that in carrying out this excellent idea no "fake antiquity" appears. Within



*The world-famous Plymouth Hoe, with, in the foreground, the seventeenth-century Royal Citadel. Above it is the Naval War Memorial, which is to be the focal point of the major axis of the new city centre. Beyond the memorial are the few remaining attractive early nineteenth-century terraces of the Hoe, and beyond again, over the railway line, the formless conglomeration of industrial Plymouth stretching towards Devonport and the river Tamar. Below, three views of the old city: left, the Barbican; centre, New Street; right, warehouses beside Sutton Pool. (Top photograph: Aerofilms.)*





The city's zoning proposals, as given in the Paton Watson-Abercrombie plan, modified to show the new city boundary—a broken line—and the new housing estate of Whittleigh (5). The white areas west of the Ernesettle estate (3), south of the King's Tamerton estate (4), and north-west of the Efford estate (2), are rural zones, i.e., areas reserved permanently for agricultural pursuits.

the limits of the use of existing traditional construction the design approach should be contemporary—informal, unpretentious, and non-monumental.

#### the centre's layout

The layout which was ultimately adopted for the city centre, while obviously influenced by the lie of the ground, is also oddly at variance with it. We have referred to the falling spur of land which curves south-westwards from a crest about 2 miles inland and terminates at the Hoe. On the west flank of this spur is located the city centre. The southernmost portion of the east flank is the site of the Barbican and the old City. The exact position of the centre is shown in the two plans on page 719. The main axis, known as the Armada Way, was conceived by the authors of the plan as "the visitors guide." Running from the station to the Hoe it is to serve as an indicator to the arriver at the station "where the town centre or sea front lies." For the visitor will be able to see down the hill and across the shopping and civic centre to the Naval War Memorial on the steeply rising Hoe which forms the take-off point of a visual ski-jump into the sea. Criticism of this layout is based on the fact that the "ski-jump" is tilted on its side. The axial way runs across the side of the curved spur, so that all the roads at right angles to the main axis are sloping—not steeply, but at a sufficient gradient to cause the eye to run off the axis.

Yet this vista is today, when vistas are far from fashionable, the most interesting and exciting part of the whole plan. The weakness of the conception is that the shape of the city centre plan depends on the north-south vista, yet there is no economical justification for it. The land it uses is not a road nor has it rateable value. It is, indeed, an amenity only. There is little design justification, too, for so aggressive an axial way. While agreeing that the visitor, and, of course, the native, need a visual spine to the city, there is a curious lack of subtlety in a "guide" which propels the visitor, who is unlikely to be a Pilgrim Father, so inexorably towards the sea. (And, incidentally, towards a rather unattractive War Memorial).

#### shopping centre

The distributive trades are one of Plymouth's chief industries. The rehabilitation of the shopping facilities has

been of the utmost importance to the city. The extent of the reconstruction, which can be seen in the frontispiece, is probably more advanced than anywhere else in the country. The shopping precinct was planned on a formal layout with the main frontage on to Royal Parade. With the ownership of the shops in many different hands, the extreme formality of the plan revives memories of the re-building of Regent Street and problems of relationships between elevations of buildings laid out to a formal street pattern. The merit of the layout is its compactness. By building higher, about the same floor area has been provided as pre-war, although a much larger area has been allowed for roads, parking and other facilities. The compactness of the plan was also intended to give protection to the shopper against the gales and inclement weather which have to be expected in this part of the country. Nevertheless, the shopping centre in the 1943 plan suffered from the extreme formalism. Too little attention was paid to the provision of rear access, service areas and car parking. This detail plan was prepared before research by the MOTCP was undertaken into problems of road layout, but it is surprising that the 1952 version of the plan for the centre has stuck so rigidly to the detail of the layout and has not had incorporated in it recent ideas on the planning of shops and offices for improved standards of lighting and ventilation. The extreme formalism of the plan will demand a formal quality in the elevations. This will only be achieved by getting agreement from the host of developers—a far from easy task. The simple design requirement that buildings in certain streets should be faced in Portland stone has at least ensured a unity of colour and texture. But it has also caused extreme examples of façadism—the evil of considering only the front of a building to the neglect of the rear, an error of taste which is the antithesis of good contemporary design.

The use of Portland stone as a facing material was decided on, in part at least, because local quarries are no longer worked, are too expensive, or are apparently incapable of satisfying the demand. This is a great pity because the local stone, a colourful veined limestone, imparts a tough virile character to the local old buildings which, by comparison, make the creamy white new façades appear slick and effete.

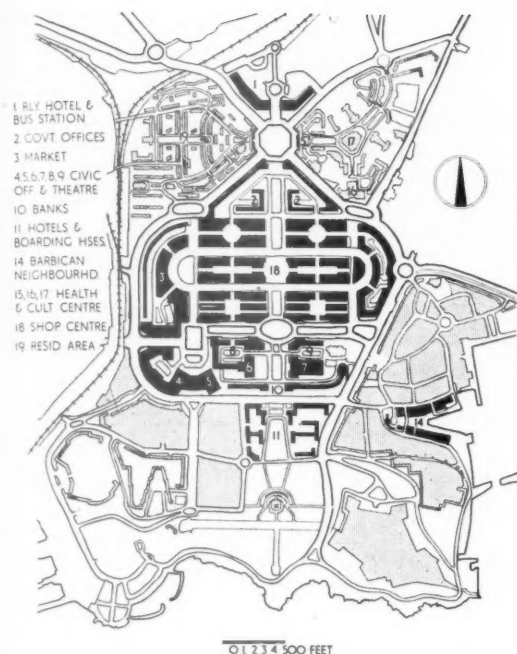
#### building heights

It is obvious when making a study of the 1943 plan, that much of it was more a gesture of confidence in the country's and the city's future than a shrewd assessment of the city's economic status following an exhausting war. The sketches show acres and acres of three- and four-storey development in shops and offices. In reality the city has had no easy task in lining just one street with four-storey buildings, as a study of the plans indicates. The planning officer, in fact, has stated that there is no demand now for even three-storey shops and offices. He is having to complete such shops merely because of the elevational requirements laid down in the plans. The forced dispersion of war has had its effect on the demand for accommodation in the city centre. Mr. Paton Watson is reconciled to later development in the city being confined to single-storey shops—possibly with car parks on top.

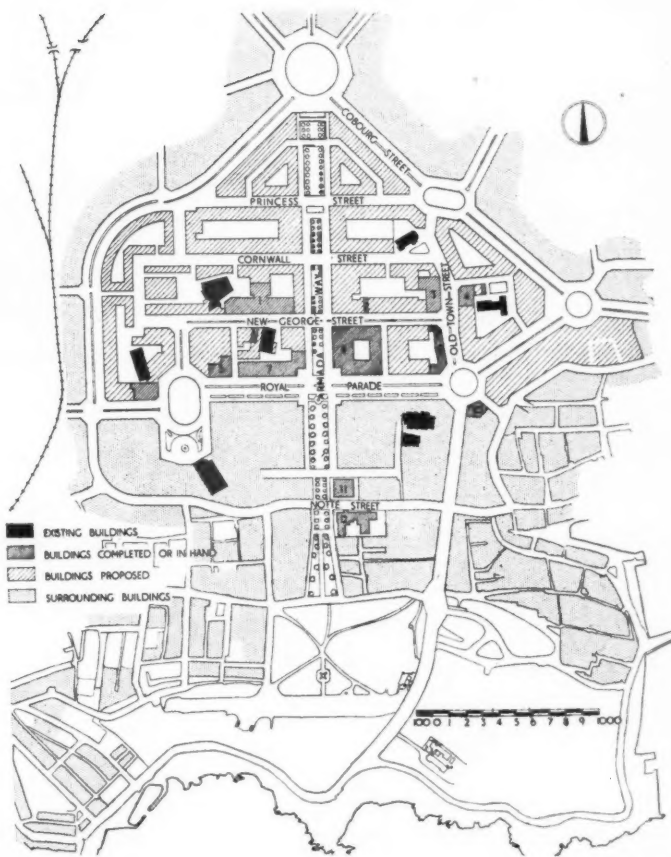
#### farming

The Plymouth plan was the first town plan to give just consideration to farming interests. Great care was taken to safeguard first quality farming land from building development. The authors went so far as to include rural zones, as shown on the plan above, left, where a considerable proportion of the land is unsuitable for economic building development on account of awkward levels, and where farm produce could be grown conveniently near to the market. These farms are, however, sandwiched between housing estates. The result calls for an adjustment of attitude on the part of both farmer and local resident





The revised layout, right, for the central area of Plymouth for comparison with the original proposals in the Paton Watson-Abercrombie plan shown above. The numbers on the buildings marked as completed, or in hand, denote those which are illustrated in this issue. 1. Shops in New George Street (pages 726-7). 2. Bookshop in New George Street (page 725). 3. Store in Old Town Street (page 725). 4. Shop in Old Town Street (page 728). 5. Shop in New George Street (page 728). 6. Department store in Royal Parade (page 721). 7. Shops and offices in Royal Parade and Armada Way. (pages 721-2). 8. Department store in Royal Parade and New George Street (pages 722-3). 9. Offices and shops in Royal Parade and Old Town Street (page 724). 10. Offices on St. Andrew's Roundabout (page 728). 11. Bank in Armada Way (page 728). 12. Services Club in Notte Street and Armada Way (page 729).



to the new situation. The latter tends to regard the farm not as a productive industry but as a rural playground. The former does not readily alter his method of farming to meet the changed conditions. A report on the success, or otherwise, of this planning device would no doubt be invaluable to the designers of new towns, many of whom are envisaging a closer integration of town and country around the nucleus of a town centre than ever before. If farms cannot be worked economically in such close proximity to large urban populations, large areas of derelict land may well be left on the local authority's hands.

### housing

Plymouth had a very large rehousing programme to face. Before the bombing the density of housing areas as an average for the whole city was about 70 persons to the acre, which is very high. The plan provided for 63,847 people being rehoused; it was calculated that 23,587 could be provided for within the city boundary (as it was then) and that the balance of about 40,000 would have to move outside the city.

The city has actually built over 9,000 dwellings (this includes flats and 2,250 temporary houses) and there remain another 11,000 people to house. Part of most of the larger estates are shown in the aerial views on page 733 *et sequæ*. The city planner states that there is a grave lack of shops and community buildings in these estates as the Government has not allowed licences for any building except houses and schools. The odd hutted shop or community centre has been erected and at Budshead, near Whitleigh, a farmhouse has been converted into a community centre, but the general lack of reasonable shopping

facilities is a serious problem for housewives living three miles or so from the centre.

If one accepts the desirability of low-density housing one accepts readily the resulting sprawl of housing estates far into the countryside. It is not so easy to accept, however, the monotony of effect which has been achieved in the layout of the houses. In spite of a rolling, varying landscape on which it might be thought well-nigh impossible to achieve dullness, nevertheless the results are only too frequently extremely drear and bleak.

The layout of the roads is undertaken by the city engineer, surveyor and planning officer, the city architect's task being confined to the design of the houses themselves. Here, perhaps, is the fault. The architect, whose training equips him for the detailed treatment of housing and roads in relation to contours and planting, so as to achieve variety and interest in the townscape, is being unnecessarily restricted. The zoning of areas is the planner's job, the construction and layout of main roads is the engineer's task, but the layout of residential roads should be done in the closest collaboration with the designer of the buildings to be sited alongside them. This can only be done by the architect and the engineer working together, or by the architect handling the problem alone.

The Plymouth Council have achieved quantity in rebuilding, and have every right to rest on their laurels. But they should look again to see whether they have acquired quality. For it is by the quality of the new buildings—whether in the great stores of the centre or the humble houses on the outlying estates—that, in the years to come, this building achievement will be judged, and, if present trends continue, found somewhat lacking.



## PLYMOUTH CITY CENTRE

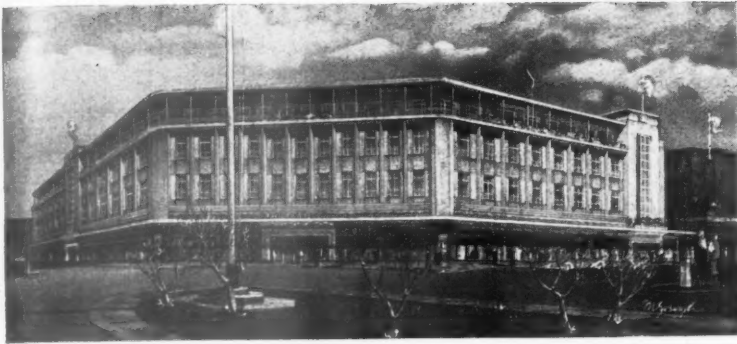
Planning officer : J. PATON WATSON, city engineer and surveyor

Co-ordinating architect, 1945-1951 : WILLIAM CRABTREE; Co-ordinating architects,  
panel 1951-1952 : THOMAS TAIT, E. G. CATCHPOLE and WILLIAM CRABTREE

The following pages, up to and including the top half of page 728, show briefly most of the buildings which are under construction and those which have been completed, since the end of the war, in the central area of the city. The succeeding four and a half pages illustrate those buildings which have been erected within the pre-war built-up area of the city. A list of the assistant architects, and the general and sub-contractors concerned with the buildings is given on pages 747-8. Below is the nearly complete main shopping street on the north side of Royal Parade. Opposite these shops will be the proposed civic centre.

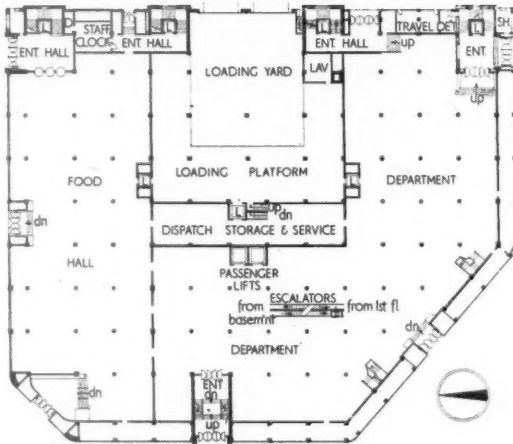
*The Royal Parade from the west. On the left is the building for the Plymouth Co-operative Society, described at the top of the opposite page.*



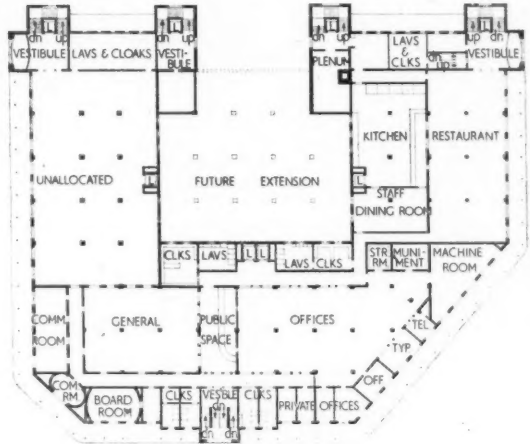


architect : **W. J. REED**  
building : **DEPARTMENTAL STORE in Royal Parade**

Premises under construction (shown in foreground, opposite page, and left) for the Plymouth Co-operative Society. *Construction* : Steel-frame, with prestressed concrete floors and roof. *Facing* : Portland stone and polished Cornish granite below the canopy. *Heating* : Plenum. *Finishes* : Plastered walls and suspended ceilings with services behind. *Cost* (exclusive of shop fittings) : £900,000.



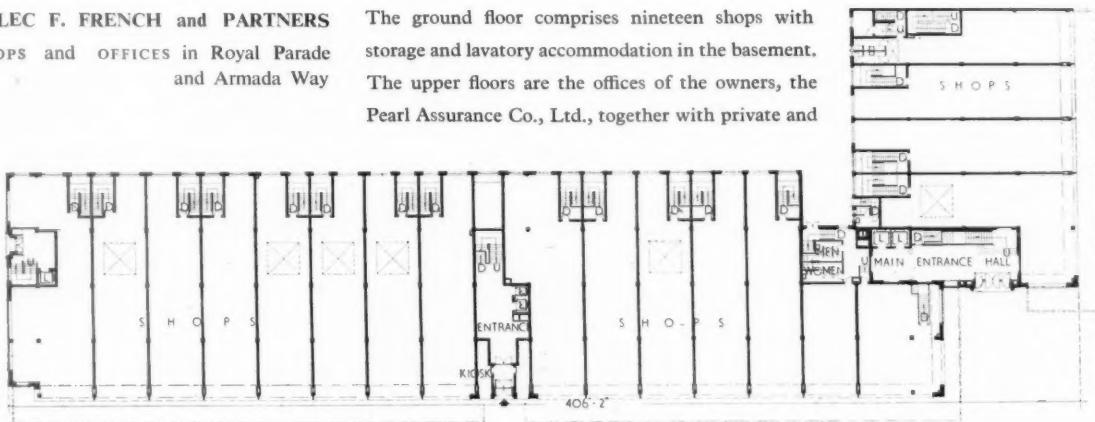
Ground floor plan. (Scale :  $\frac{1}{16}'' = 1' 0''$ )



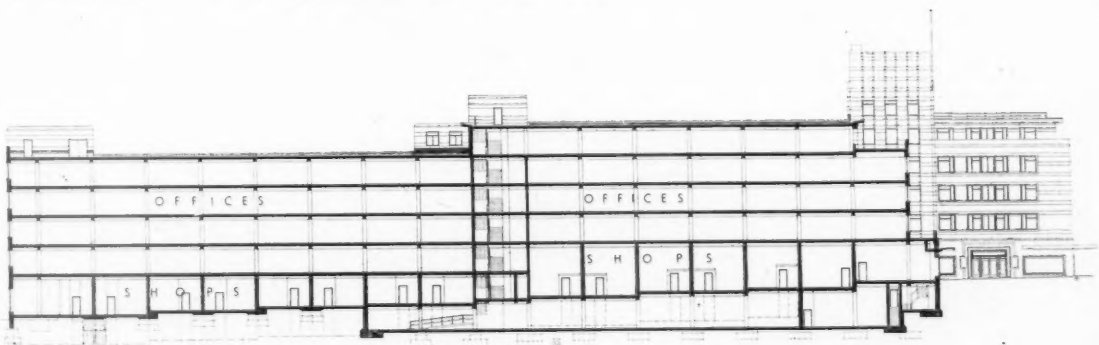
Third floor plan.

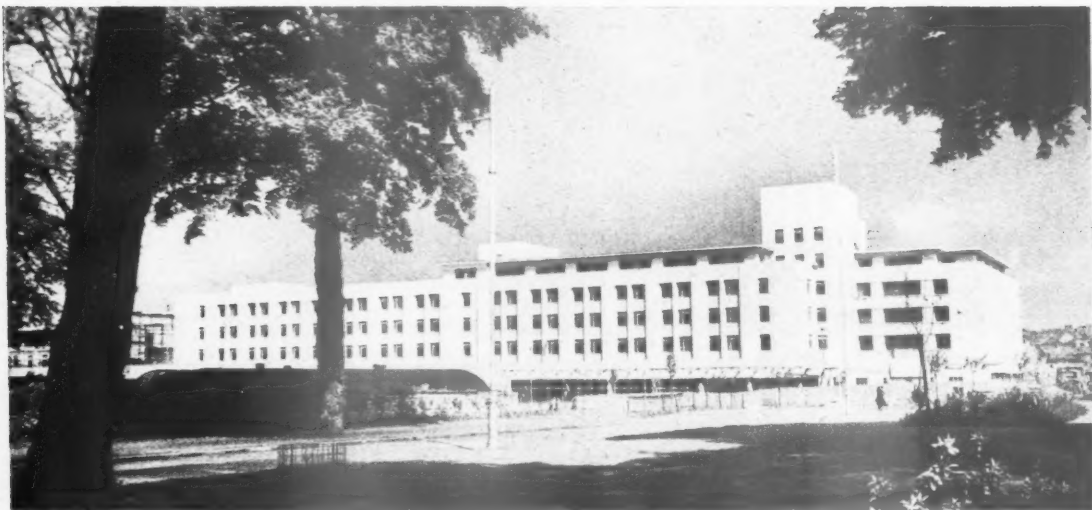
architects : **ALEC F. FRENCH and PARTNERS**  
building : **SHOPS and OFFICES in Royal Parade and Armada Way**

The ground floor comprises nineteen shops with storage and lavatory accommodation in the basement. The upper floors are the offices of the owners, the Pearl Assurance Co., Ltd., together with private and



Ground floor plan. Below, longitudinal section. (Scale :  $\frac{1}{16}'' = 1' 0''$ )



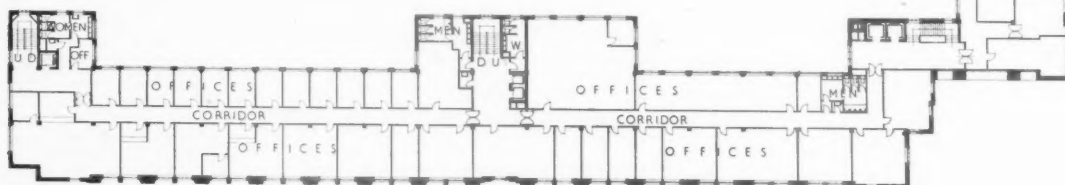


The Pearl Assurance House from Armada Way.

architect : **ALEC F. FRENCH and PARTNERS,**  
building : **SHOPS and OFFICES** (continued)

Government offices totalling 60,000 superficial feet of office space. *Construction* : Steel frame, on 20-ft. 8-in. grid. *Floors and roofs* : Concrete hollow tile. *Facings* : Portland stone, with a

backing of 4½-in. brick and 6-in. terra-cotta cellular blocks. *Rear elevations* : Flint lime bricks. *Finishes* : Walls and ceilings plastered. *Floors* : European beech blocks on 3-in. foamed slag screed. Main hall and stair, terrazzo tiles, and wall linings of travertine marble. *Heating* : Low pressure, hot water radiators fed by automatic solid fuel boilers.



Third floor plan



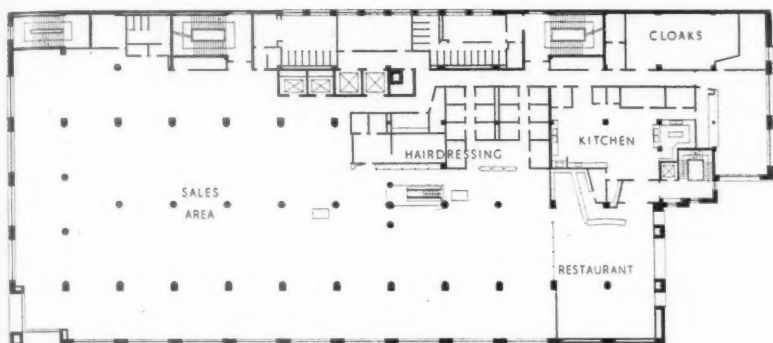
The store from New George Street. Beyond it is the store for Messrs. Dolcis designed by Ellis E. Somake and fully illustrated in the JOURNAL for June 28, 1951.

architects : **SIR JOHN BURNET, TAIT and PARTNERS**  
building : **DEPARTMENT STORE** in Royal Parade and New George Street

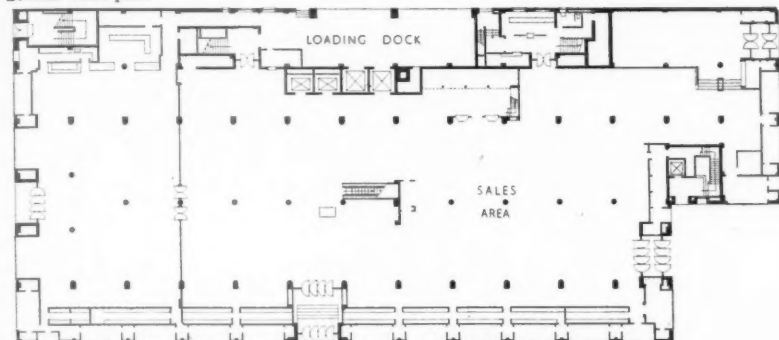
This store for Messrs. E. Dingle & Co., being one of the first buildings commenced in the reconstruction area, the internal planning will be on flexible lines until the flow of people in the surrounding streets becomes known. *Construction* : Steel frame, with concrete floors. *External walls* : Portland stone, with brick and hollow tile backing. *Floor finishes* : Terrazzo in food department, remainder of ground floor cork. *First floor* : Close carpeted. *Upper floors* : Linoleum. *Heating* : Low pressure hot water. *Ventilation* : Extract system on ground floor, hairdressing department, kitchen, etc.

architects: **SIR JOHN BURNET, TAIT and PARTNERS**

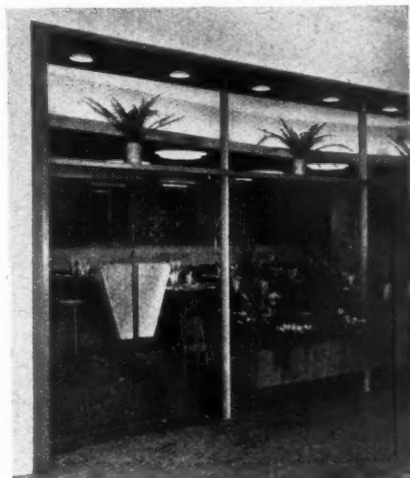
building: **DEPARTMENT STORE** (continued)



Second floor plan



Ground floor plan. (Scale: 1/4" = 1' 0")



Above, the restaurant and below, left, the reception area for women's hairdressing on the second floor. Below, the food department. Bottom, the store from Armada Way.



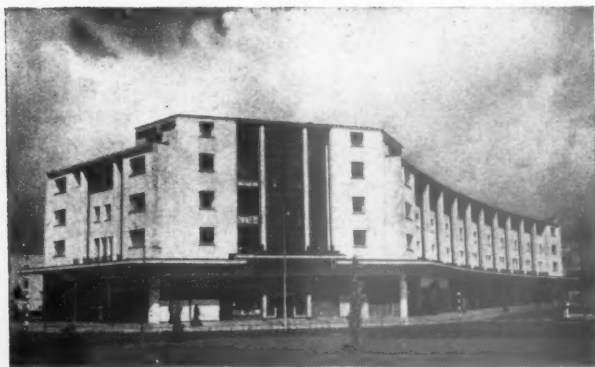




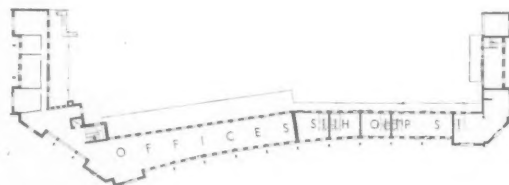
architects : DONALD HAMILTON, WAKEFORD and PARTNERS

building : OFFICES and SHOPS in Royal Parade and Old Town Street

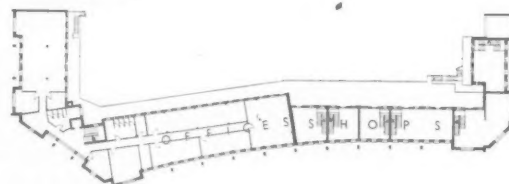
The building is divided into two sections, the part fronting Royal Parade and one half of the site being the offices of Norwich Union Insurance Societies, with shops and showrooms under. The remainder of the building is the property of Ravensett Properties, Ltd., and consists of shops, with showrooms on the first floor and staff rooms over. *Construction :* The building has a steel frame, with 13½-in. and 11-in. cavity walls externally, the stone facing is 3½-in. ashlar secured with gunmetal cramps and bolts. *Internal party walls :* 9-in. brick. An expansion joint was introduced at the centre of the building which has entirely separated the two properties.



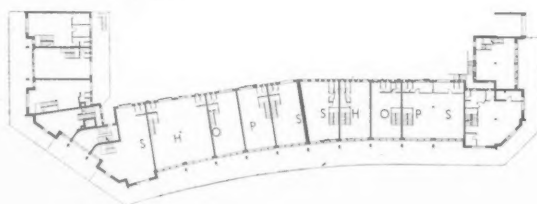
From the junction of Old Town Street and New George Street. Below left, the main entrance from the roundabout at the east end of Royal Parade.



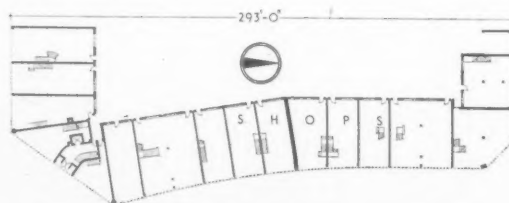
Third floor plan.



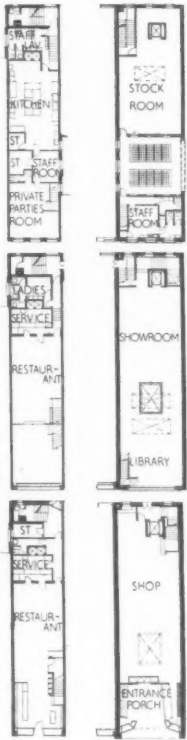
Second floor plan.



First floor plan.



Ground floor plan. [Scale : ¼" = 1' 0"]



Ground, first and second floor plans of left, restaurant by Eugene C. Kent and right, book shop by W. G. Norris. [Scale: 1/8" = 1' 0"]

architect : W. G. NORRIS

building : BOOK SHOP in New George Street

These premises for W. H. Smith & Son, Ltd., replace the original branch in George Street destroyed by enemy action. *Construction* : Main elevation—Portland stone. *Floors* : Oak wood blocks on precast concrete beams. *Main stair* : Oak, with oak dado. Heating by gas-fired automatic low pressure hot water radiators.

architect : EUGENE C. KENT

building : RESTAURANT in New George Street

This design has been accepted by the local authority, but a licence has not yet been granted. The ground floor restaurant will seat 46 people and the first floor restaurant 80. The kitchen, staff accommodation, and a private dining room will be on the second floor.

architect : LEWIS and HICKEY

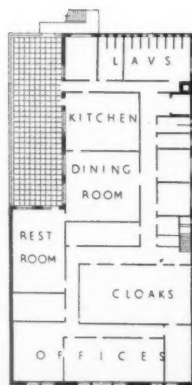
building : DEPARTMENT STORE in Old Town Street

This building represents only the first stage of the construction of a new store for Messrs. Marks & Spencer, Ltd. The eventual development will produce a building occupying an "L"-shaped site, which will have an additional 100-ft. frontage on to Cornwall Street to a depth of 150 ft. A small basement accommodates engineering services. The first floor is the stockroom, while the second floor accommodates offices, staff canteen, rest room, and

medical room. *Construction* : The store is steel framed, with hollow tile floors and roof slabs. External walls, where they will not be protected by future buildings, are of cavity brickwork with a 9-in. inner leaf. Elevations which do not face the public way are faced in flint lime bricks. Metal windows are used throughout. The only street elevation is faced in reconstructed Portland stone without bond.



Ground floor plan.



Second floor plan.

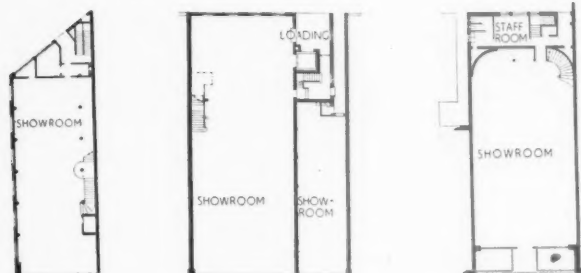
[Scale: 1/8" = 1' 0"]



architects : **DE METZ and BIRKS**

building : SHOP in New George Street

The premises for Woodhills (Plymouth), Ltd., women's dress retailers, occupy the end site of a terrace of three-storey shops on the north side of New George Street, with a frontage of 32 ft. and depth to the oblique rear boundary varying from approximately 80 ft. to 100 ft. Right of way frontage on the west side to provide



Ground and first floor plans of shops by, left, de Metz and Birks; centre, P. V. Burnett and Partners; right, Taylor and Bracken.  
[Scale : 1/4" = 1' 0"]

additional display windows to the ground floor. *Construction* : a complete reinforced concrete frame, brick external panel walls. The main elevation has a unified treatment for the whole terrace, is faced with Portland stone, with Cornish granite panels between steel casement windows and a polished granite fascia. *Services and finishes* : a central heating system is installed with concealed unit heaters in the showrooms and radiators elsewhere, heated by an oil-fired boiler. There is fluorescent trough lighting along the beams in the ground floor showroom, with spot-lights under. *Showroom floors* : rubber and cork tiling. *Walls and ceilings* : plaster and paint.

architects : **PERCY V. BURNETT & PARTNERS and HARRY SIMCOCK** (for Messrs. A. L. Salisbury's shop front and shopfitting.)

buildings : TWO SHOPS in New George Street

These shops rehouse Messrs. Jas. Woodhouse and Messrs. A. L. Salisbury whose original premises were destroyed by enemy action. *Construction* : steel frame with brick panel walls and reinforced concrete floors and flat roof. *Floor finish* : oak blocks. The rear elevations are in facing bricks to match the adjoining premises.

architects : **TAYLOR and BRACKEN**

building : SHOP in New George Street

This building for Messrs. Wilsons (London & Provinces, Ltd.) occupies a frontage of 40 ft. and is 100 ft. in depth. The main elevation is in Portland stone, and, like the remainder of the buildings in the block, was first designed as an individual building, modified and then adjusted in consultation with the architects of the adjacent buildings and the City Co-ordinating Architect in order to maintain harmony of design throughout the block. Floors of *in situ* concrete were designed in a single span in order to provide a clear uninterrupted sales and display space, and extensive glass windows were employed to attract the public beyond the front display into the building.



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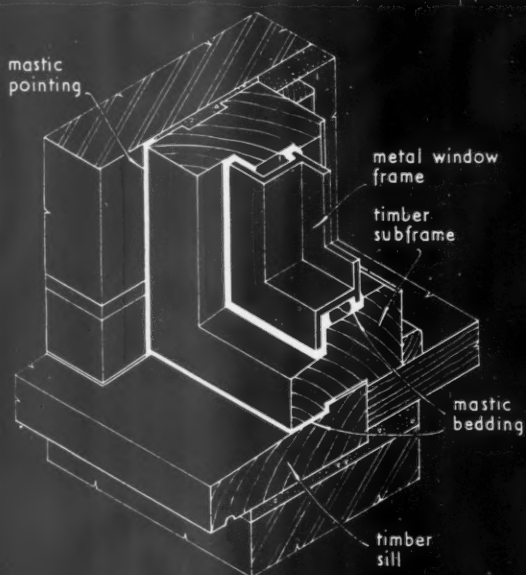




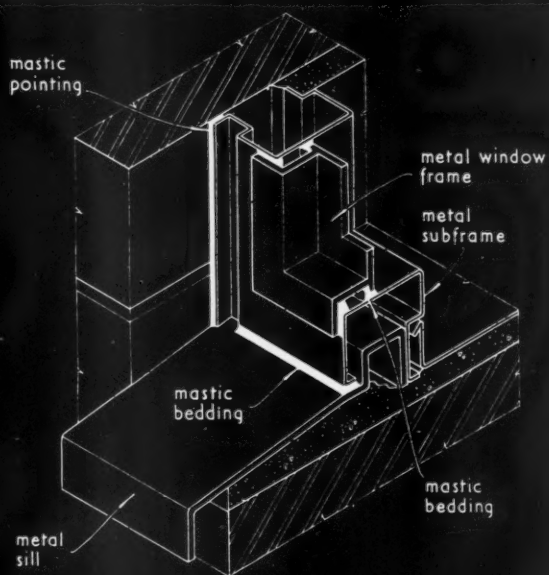
# PRODUCTS MISCELLANEOUS MASTICS

26.M2

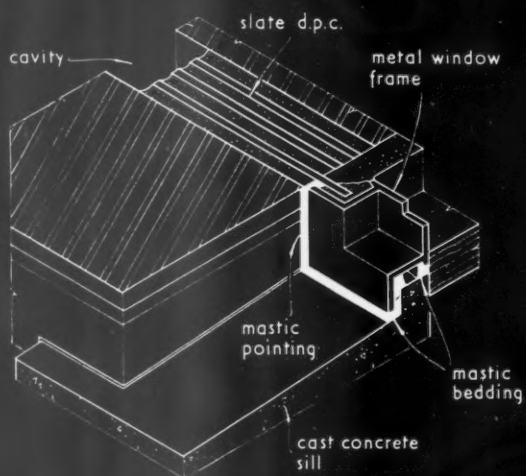
The Architects' Journal Library of Information Sheets 367. Editor: Cotterell Butler, A.R.I.B.A.



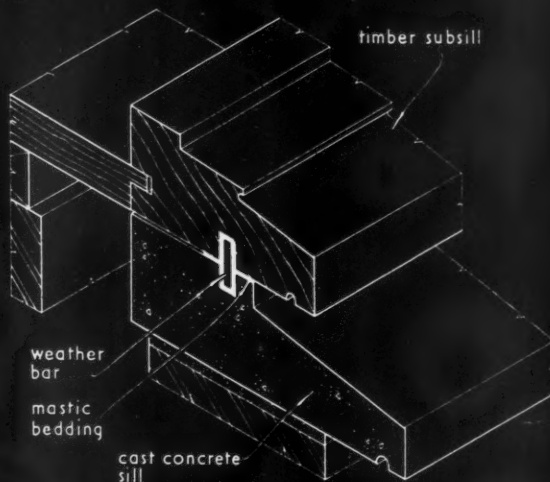
STANDARD METAL WINDOW IN TIMBER SUBFRAME.



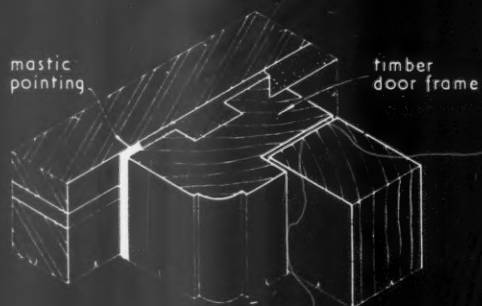
STANDARD METAL WINDOW IN METAL SUBFRAME.



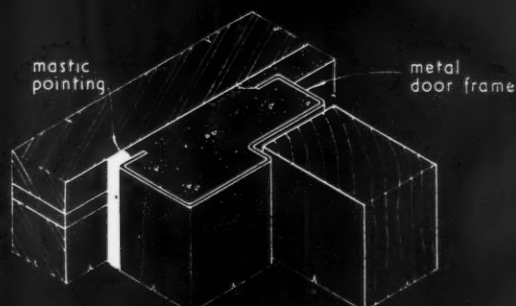
STANDARD METAL WINDOW FIXED DIRECT TO BRICKWORK.



WEATHER BAR TO SILL



EXTERNAL DOOR IN TIMBER FRAME.



EXTERNAL DOOR IN STANDARD METAL FRAME.

## 26.M2 · SECOMASTIC · JOINT SEALING COMPOUND : FIXING DETAILS FOR WINDOWS AND DOORS

This Sheet, the second dealing with Secomastic joint sealing compound, illustrates and describes its use in the fixing of windows and doors. Sheet 26.M1 describes the composition and general properties of the material and gives a number of other examples of its use.

### Method of Application

The compound is normally applied by means of a Seco hand caulking gun—with the appropriate nozzle affixed—in which case Secomastic K (gun grade) compound is used. The K compound is packed in kegs or in waxed cardboard cartridges which completely fill the gun. A bead of not less than  $\frac{1}{4}$  in. in depth is recommended for all exposed applications. A skin is formed within 24 hours after which any non-bituminous paint can be applied.

For trowel application Secomastic N (knife grade) compound is available.

*Pointing metal subframes and wood surrounds :* The external joint between the subframe and sill, brick-work etc., should be raked out where necessary to a uniform width and depth of not less than  $\frac{3}{8}$  in. All dust should be removed and a ribbon of mastic applied to the joint. Where wide and deep voids have been left round the subframe these should be filled, before pointing, with cement mortar or caulked with hemp rope or similar material to within  $\frac{1}{2}$  in. of the surface. With metal windows fixed direct to a cavity wall having vertical slate d.p.c's, as shown in the centre left-hand drawing, it is important that the mastic should form a continuous joint with the d.p.c.

*Bedding window frames in subframes and surrounds :* A continuous ribbon of mastic should be applied to

the rebate into which the frames are to be set. If the correct amount of mastic is used no finishing is required after the frames are in position. Any surplus may be removed by a rag soaked in Secomastic Cleaner or smoothed down with the moistened finger. Alternatively, where the section of the frame makes this method more convenient, the mastic may be applied to the frame itself instead of to the rebate of the subframe.

*Assembling component parts of composite windows :* Joints between a fixed frame and mullion or fixed frame and transom can be effectively sealed by applying a ribbon of mastic to either the frame or the mullion or transom, whichever is more convenient.

### Further Information

The manufacturers maintain a Technical Department which is available to answer questions and advise on technical problems dealing with this subject generally. Skilled demonstrators are available on request to visit sites and give guidance on the application of the material.

*Compiled from information supplied by :*

Secomastic Ltd.

Address : 15, Upper Grosvenor Street, London, W.1.

Telephone : Mayfair 4027.



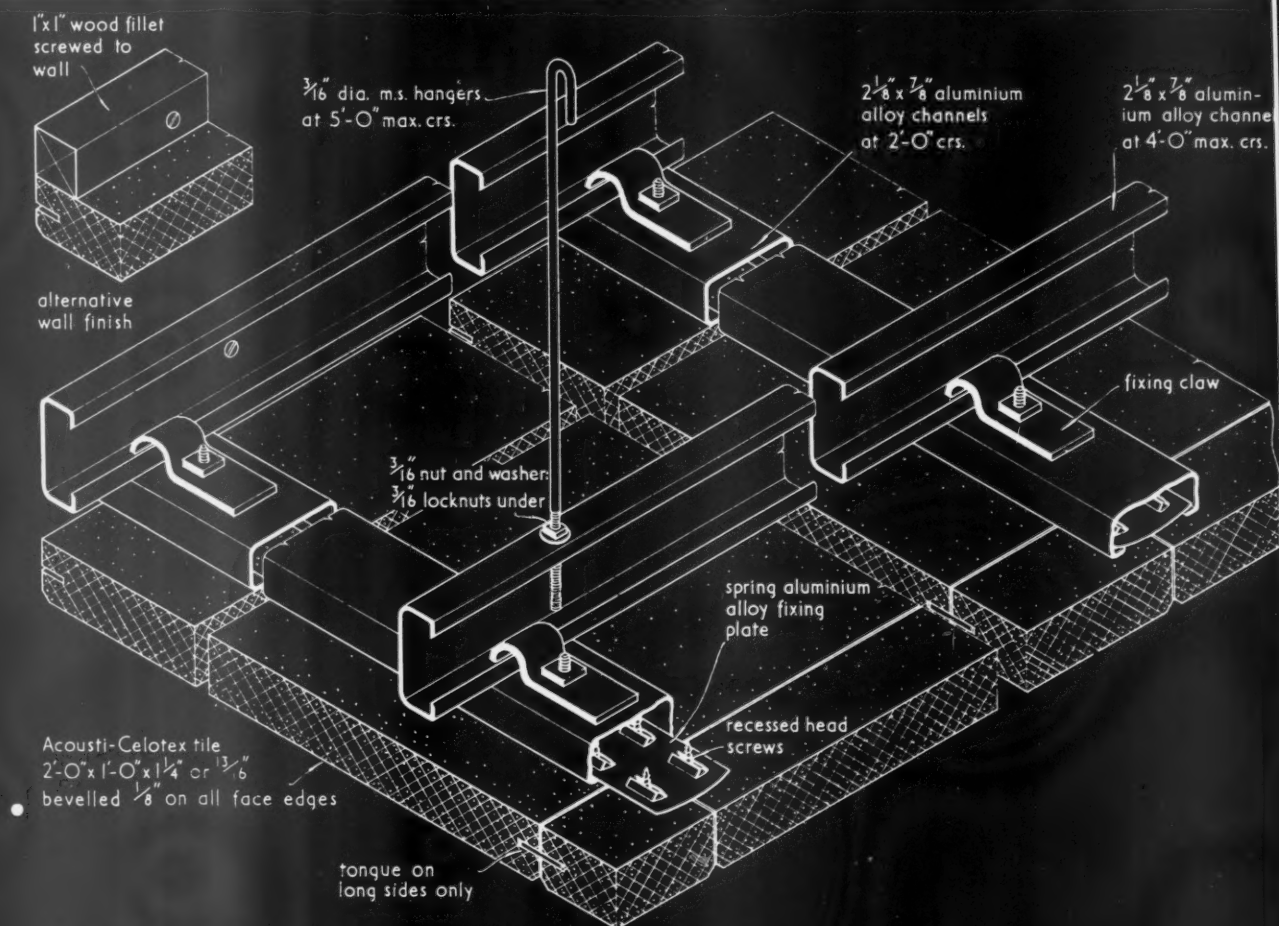




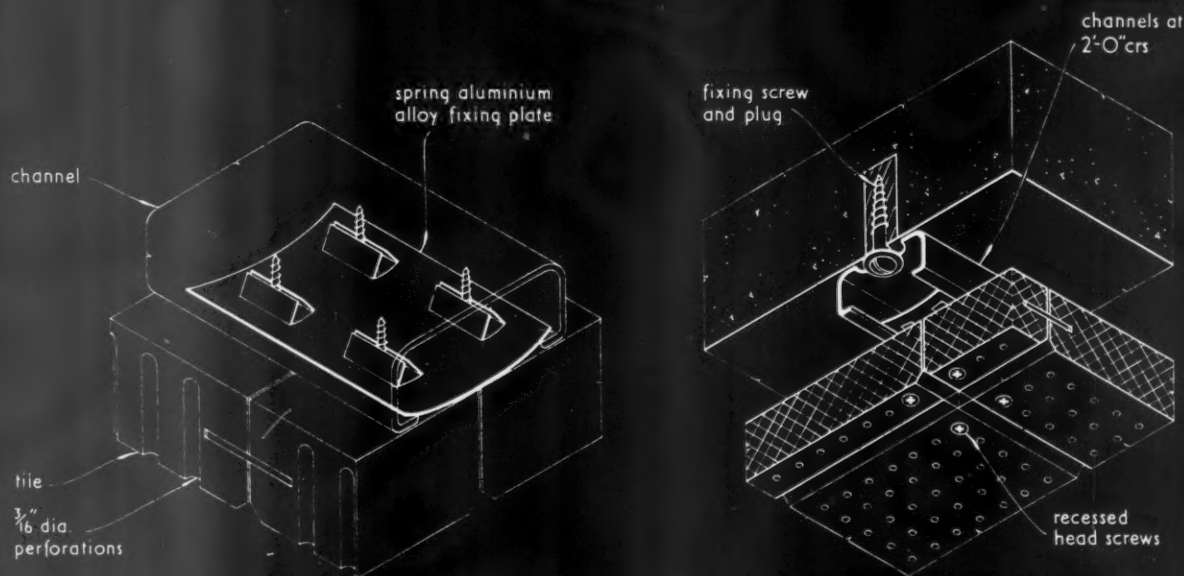
## ACOUSTICS | DETAILS | CEILINGS

27.B10

The Architects' Journal Library of Information Sheets 368. Editor: Cotterell Butler, A.R.I.B.A.



SUSPENDED CEILING: GENERAL ASSEMBLY OF COMPONENT PARTS.



ENLARGED DETAIL OF SPRING ALUMINIUM ALLOY FIXING PLATE.

FIXING TO CONCRETE CEILING.

## 27.B10 · CULLUM · CHANNEL FIXING SYSTEM FOR ACOUSTI-CELOTEX TILES

**This Sheet** describes Acousti-Celotex sound absorption tiles and illustrates their application to ceilings using the Cullum channel fixing system. Fixing is possible to any type of vertical, horizontal or sloping surface.

The tiles may be removed and replaced any number of times without damage and if necessary the whole structure can be removed and fixed elsewhere. The ease with which a few tiles may be removed provides ready access to electrical services, etc.

**Tiles**

**Material:** The tiles are made of tough fibres called bagasse. They are perforated with  $\frac{1}{8}$  in. diameter holes (at approximately  $\frac{1}{2}$  in. centres) which penetrate to within  $\frac{1}{8}$  in. from the back of the tiles.

**Characteristics:** The most important physical advantages of bagasse fibre are purity, resistance to decay, length, strength, springiness, bulk, toughness and durability, air space within fibre particles, and serrated sawtooth surfaces which permit proper felting.

**Sizes:** The standard sizes of tile available for use with the Cullum channel fixing system are 24 in. by 12 in. by  $1\frac{1}{4}$  in. thick (C.4.G.) and 24 in. by 12 in. by  $\frac{3}{8}$  in. thick (C.3.G.). Similar tiles 12 in. by 12 in. are available for fixing by other methods.

**Finishes**

C.4.G. and C.3.G. tiles are supplied painted matt white and have  $\frac{1}{8}$  in. bevelled edges.

**Applied finishes:** The tiles can be decorated as often as required without impairing their efficiency. Oil paint or distemper give equally satisfactory results but care must be taken not to fill any of the perforations in the surface of the tiles. This is not likely to occur with spraying but the careless application of a fully charged brush may clog some of the holes. For this reason spraying is preferable to brush work although first-class jobs are possible with both methods.

Before commencing work the entire surface should be brushed with a soft brush to remove any dust. If more than one coat of oil paint is to be applied, the final surface is improved by lightly sanding the last undercoat when dry with No. 00 (or finer) glass paper.

**Suspended Ceiling**

The sizes, general assembly and maximum spacing of the suspension members are shown on the face of this Sheet. The m.s. hangers are usually attached to the main roof structure with screw eyes and are threaded at their lower ends for fixing to the longitudinal channels. The cross channels are held in position with m.s. fixing claws and the tiles are screwed to spring fixing plates which engage in the return flanges of the cross channels.

The only metal visible on the finished surface is the small head of each fixing screw. A recessed head (no slot) is employed which corresponds in size with a normal perforation. With these screws there is no chance of the screwdriver slipping out to score the surface. The "spring" in the fixing plate and the tongues connecting the long edges of all tiles ensure an airtight ceiling. This prevents "breathing" and so avoids local deposits of dirt in the joints.

The complete weight of the ceiling is  $1\frac{1}{2}$  lb./sq. ft. using C.3.G. tiles and 2 lb./sq. ft. using C.4.G. tiles.

**Fixing to Concrete Ceiling**

In this case single channels at 2 ft. centres are screwed direct to the underside of the concrete. The tiles are fixed in the manner described above.

**Fixing Components**

**Hangers:** Mild steel  $\frac{3}{16}$  in. diameter rod, cadmium plated.

**Channels:** Aluminium alloy; seamless sections in lengths of 18 ft.

**Fixing claws:** Mild steel, cadmium plated.

**Fixing plates:** Spring steel or aluminium alloy.

**Screws:** Recessed headed steel, cadmium plated.

**Sound Absorption**

Average coefficients of absorption are as follows but there will be variations of approximately 0.05 in either direction according to the air space between the back of the tile and the main structure.

Reverberation absorption coefficients (to nearest 0.05)  
for frequency bands in region (c/s.)

	125*	250	500	1000	2000	4000
Type C.3.G.	0.20	0.60	0.65	0.75	0.60	0.50
Type C.4.G.	0.25	0.60	0.85	0.75	0.55	0.45

\*The accuracy is subject to reservation at this frequency where measurements present special difficulty.

**Patents**

The fixing system is covered by patents (applied for) and the registered design number of the fixing plate is 854.948.

Compiled from information supplied by:

Horace W. Cullum & Co., Ltd.

Address: Flowers Mews, London, N.19.

Telephone: Archway 2662/3/4.

Telegrams: Kulmco. Holway.

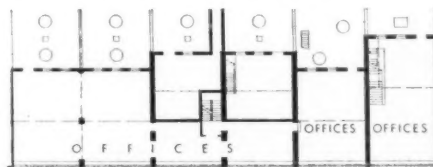


From the right, four of six shops in New George Street by W. H. Watkins and Partners. Beyond: Woolworth's Store, described below.

architect: W. H. WATKINS & PARTNERS  
building: SIX SHOPS in New George Street

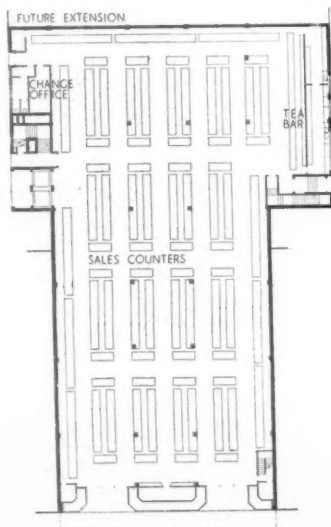


Second floor plan.



First floor plan.

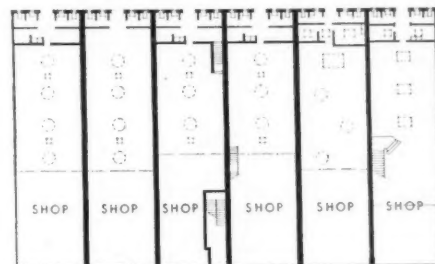
Four of the six shops are completed (see above, right). *Construction:* Load-bearing brick walls and reinforced concrete floors cast *in situ*. Ceilings are suspended to maintain an overall ceiling height (despite the fall in the pavement level across the elevation) and to allow flush spot lights. *Front elevation:* Portland stone, with pilasters in local grey granite. *Rear elevation:* handmade facing brick. Windows and escape doors painted turquoise blue.



Ground floor plan.



The ground floor of Woolworth's.



Ground floor plan. [Scale: 1/4" = 1'0"]

architect: H. WINBOURNE  
building: STORE in New George Street

The building for Woolworth's is part of a larger project. *Construction:* steel frame, brick. *Floors and roof:* precast concrete units. *Internal partitions:* hollow clay blocks. *The upper façade of front elevation:* Portland stone with purpose-made metal windows glazed with reeded glass. *Ground floor finish:* terrazzo tiles. *Lighting:* fluorescent. *Heating and ventilation:* Low-pressure, accelerated hot-water heating system (with automatic oil-fired boilers) and separate fresh air inlet and extract ventilating systems.





architects : L. BODY,  
SON AND FLEURY  
building : SHOP in New  
George Street

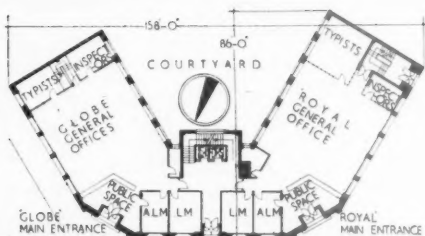


architect : N. MARTIN  
building : SHOP in Old  
Town Street

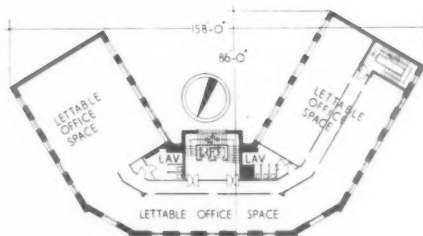


architects : ALEC F. FRENCH AND PARTNERS  
building : OFFICES on St. Andrew's Roundabout

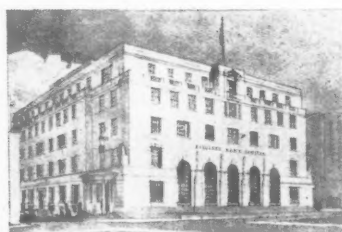
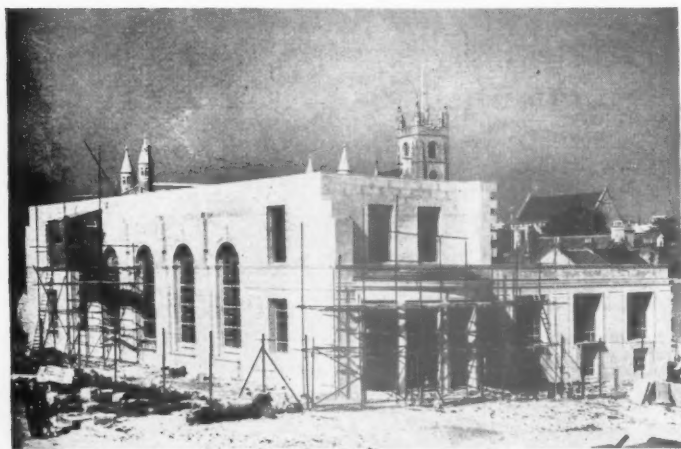
This building is for the Royal Insurance Co., Ltd., and the Liverpool & London & Globe Insurance Co., Ltd., who will occupy the ground floor. The remaining four floors will be let as offices. *Construction* : Steel frame, hollow tile floors. *Walls* : Portland stone on main façade, rendered brick to match in rear courtyard.



Ground floor plan.



First floor plan. [Scale :  $\frac{1}{8}$ " = 1'0"]



architects : W. CURTIS GREEN, R.A., SON  
AND LLOYD  
building : BANK in Armada Way



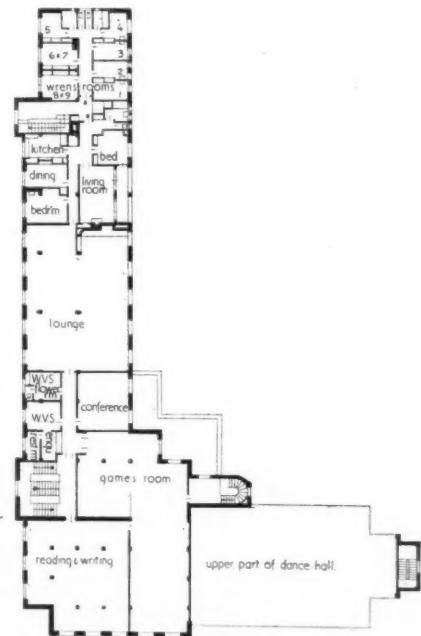
The main entrance in Notte Street. Below, left, the rear. Below right, the dance hall block.

architect : Messrs. JOSEPH  
building : SERVICES' CLUB in  
Notte Street and Armada Way

This building for the NAAFI combines a services' club with a hostel on the second floor with forty-two double rooms and seven bedrooms for WRNS. *Construction* : Steel frame, with precast concrete floors. Walls are of cavity construction with 9-in. brick external skin, Portland stone facings and a light-weight block internal skin. *Floors* : mainly hardwood blocks and strip.



Ground floor plan. [Scale : 1/4" = 1' 0"]



First floor plan.



## PLYMOUTH REDEVELOPMENT

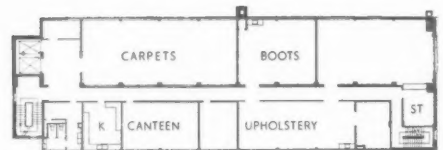
The next three pages illustrate buildings by the city architect and by private architects which have been built since the war outside the city centre but within the built-up area of the city.

architects : **SIR JOHN BURNET, TAIT AND PARTNERS**

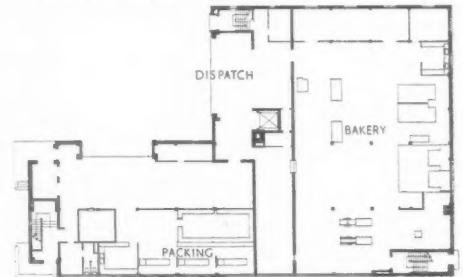
building : **BAKERY and WAREHOUSE** in Beaumont Road

This bakery and warehouse built on a bombed site supplies a number of stores in the Plymouth area owned by Messrs. E. Dingle & Co., Ltd. Advantage has been taken of the slope of the ground to locate in the basement the staff cloaks, fuel oil storage, sausage making department, cooking department, ice-cream making and the cold stores. *Ground floor* : The major portion is taken up by the bakery with adjacent areas for flour store and issuing and finishing departments. The remainder is for the packing of groceries which are supplied by hoppers from the floor above. *First floor* : Receiving and storage of bulk food, which is broken down to supply the clients' shops and orders from the individual customers. *Second floor* : Staff canteen, carpet workroom, shoe repair department and general repair and maintenance departments. *Third floor* : Directors' suite and accounts department. *Construction* : Steel framework, hollow tile floors. Basement and ground floors : reinforced concrete.

*The street elevation.*



Second floor plan



Ground floor plan. [Scale :  $\frac{1}{8}$ " = 1' 0"]

The external walls are clad with a special type of precast concrete panel, designed to overcome the shortage of bricks prevailing at the time of erection. The panels can be fixed in position from the inside of the building. No special fixing is required as a toe at the base ensures stability, and the concrete block inner wall which is built on the toe keeps the panel in position. The panel is faced with an aggregate of Portland stone.

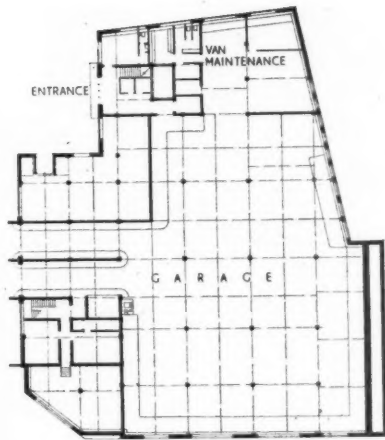
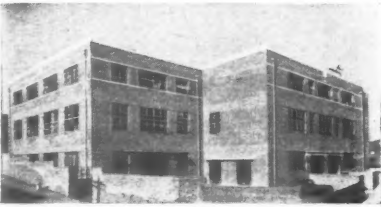
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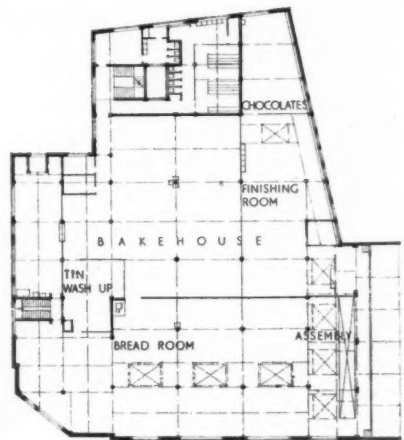
First

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Grou



Lower ground floor plan.



Upper ground floor plan.

architect : KENNETH M. B. CROSS

building : BAKERY in Regent Street

Built on a sloping site, advantage is taken of this difference in levels to plan entrances on two floors. The upper ground floor comprises the weigh-up and issue room, the finishing room, chocolates room, tin wash room and bread room, loading dock and dressing rooms for staff. On the first floor are

the dough room and flour store, a suite of offices and kitchen and staff dining room.

*Elevations* : 2-in. multi-coloured facing bricks with cream-white flush pointing. *Coping* : artificial Portland stone. *Casements* : steel. *Window cills* : copper. Central heating and hot water supplies are by oil-fired boiler plant. *Lighting* : fluorescent.

architect : W. J. REED

building : WAREHOUSE at

North Quay

This warehouse, for the storage, packing and distributing of groceries and provisions for the Plymouth Co-operative Society, replaces warehouse premises on the site destroyed in the war. *Construction* : reinforced concrete, beam and slab on *in situ* piled foundations varying from 10 to 25 ft. in depth. *External walls* : cement rendered. *Cost* : £153,000.



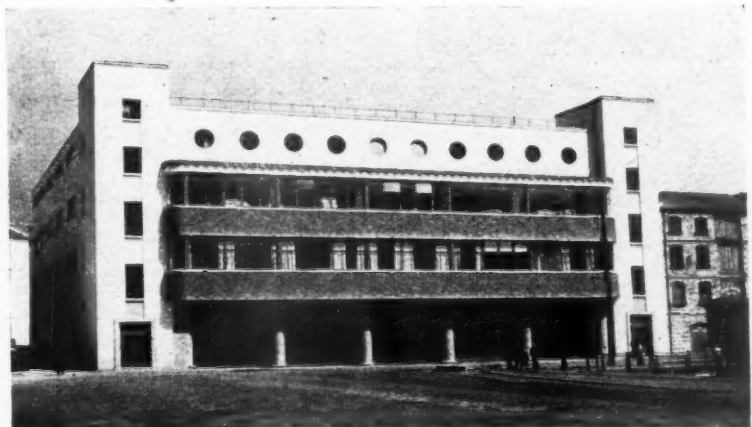
First floor plan.



Second floor plan.



Ground floor plan. [Scale : 1/4" = 1' 0"]







architects : LOUIS DE SOISSONS,  
A.R.A., & PARTNERS  
building : FLATS in Union Street.

architect : J. LEIGHTON FOURACRE

(in collaboration with the CITY ARCHITECT)

building : OLD PEOPLE'S HOMES in Penlee Way, Stoke.

New Zealand House, below, provides five two-bedroom and fifteen one-bedroom flats as accommodation for elderly bomb victims. *Construction* : traditional brick, clay tiles on felt, dressings of artificial Portland stone. *Floors* : concrete with thermoplastic tiles.

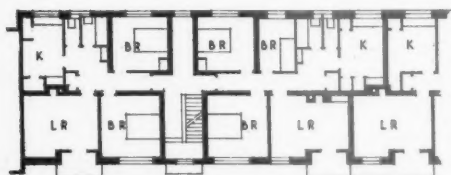
architect : H. J. W. STIRLING,  
city architect; principal assistant : D. HUNT,  
assistant : G. ROBERTS.  
building : FLATS in Rendle Street and  
Bayswater Terrace.

There are six two-bedroom and six three-bedroom flats in the Rendle Street block. *Construction* : brick cavity walls with roughcast rendering painted with cement paint. *Partition walls* : foamed slag blocks. *Floors* : 6-in. reinforced concrete finished with asphalt asbestos fibre tiles on screed. Entrance hall floors : granolithic. *Fireplaces* : tiled, with back boilers and combined cold and hot water cylinders. The flat roof is of reinforced concrete in wood wool shuttering and is finished with asphalt. *Accepted tender* : £18,920.

The Bayswater Terrace block has three one-bedroom



flats and six two-bedroom flats. *Construction* is similar to the above, but the roof is covered with 16-in. grey random-width slates. *Accepted tender* : £11,890.



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



First floor plan.



Flats in Rendle Street.



Flats in Bayswater Terrace, Pennycomequick.

## 5. NEIGHBOURHOOD UNITS

designed by : J. PATON WATSON, City Engineer, Surveyor and Planning Officer;  
H. J. W. STIRLING, City Architect (E. G. CATCHPOLE, City Architect until 1951);  
F. NAPP, Deputy Architect ; A. C. HARRIS, Chief Assistant,  
Principal Assistant, Housing: D. HUNT; Schools: M. COOK.

### 1. ERNESETTLE ESTATE

The next twelve pages illustrate briefly the five large neighbourhood units which have been built since the war on the outskirts of Plymouth. The first is the Ernesettle estate, below, shown as it nears completion. In the foreground is a factory for Bush Radio, Ltd. In the distance, left, is the Whitleigh estate under construction and on the right, mid-distance, part of the Honicknowle estate. The Ernesettle estate has a total of 1,160 dwellings, composed of traditional, Easiform, and Cornish built houses. The type house plans shown on pages 734 and 737 apply to all five estates.

*The Ernesettle estate from the west.*

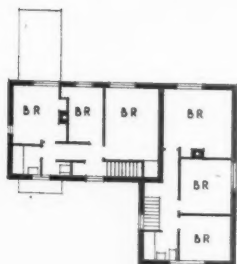




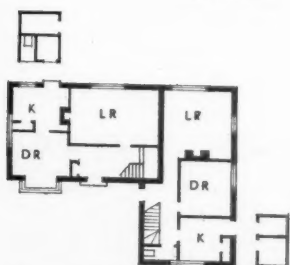
# HOUSING at ERNESETTLE

designed by CITY ARCHITECT'S DEPARTMENT

The Ernesettle estate is in the extreme north-west corner of the city boundary, close to the river Tamar and its tributary Tamerton Lake. The view, above left, is of Rochford Crescent, a typical hilly road on the north-east side of the estate with housing on one side and Budshead Wood on the other. In the distance can be seen the houses of Whitleigh estate. Above, West Malling Avenue, a road in the centre of the estate, showing the use of the type plan illustrated on this page for corner sites.



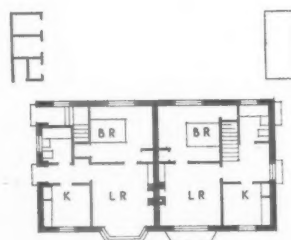
First floor plan. [Scale:  $\frac{1}{8}'' = 1'0''$ ]



Ground and first floor plans of three-bedroom houses for corner sites.



Ground floor plan of terraced three and four-bedroom houses.

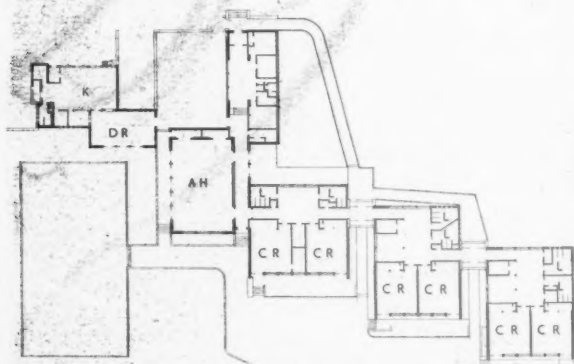
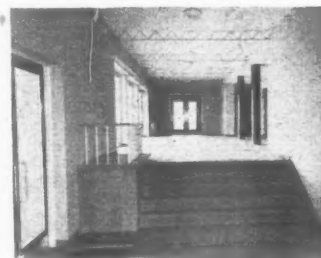
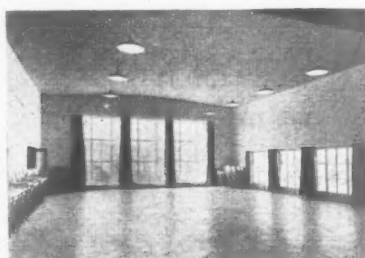


Ground and first floor plans of two-storey flats for old people.

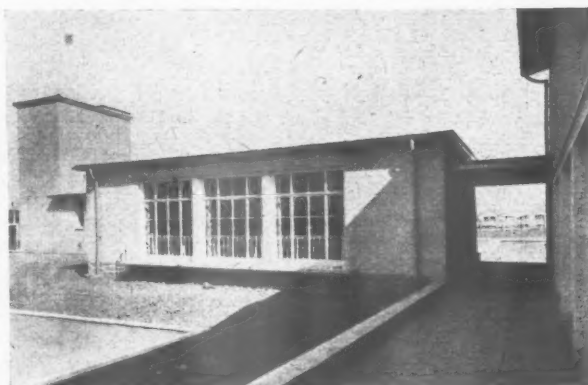
## PRIMARY SCHOOL at ERNESETTLE

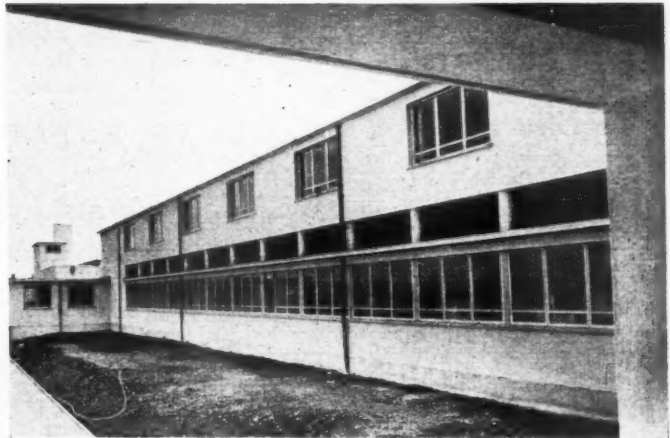
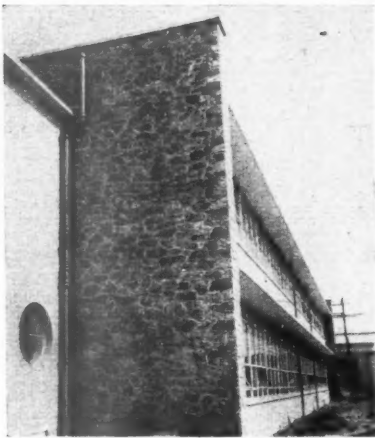
designed by LOUIS DE SOISSONS and PARTNERS

This primary school for 240 pupils is one of two on this estate. *Construction:* reinforced concrete columns and light welded steel trusses. Right, assembly hall. Extreme right, entrance hall. Below, the dining room from the assembly hall terrace.

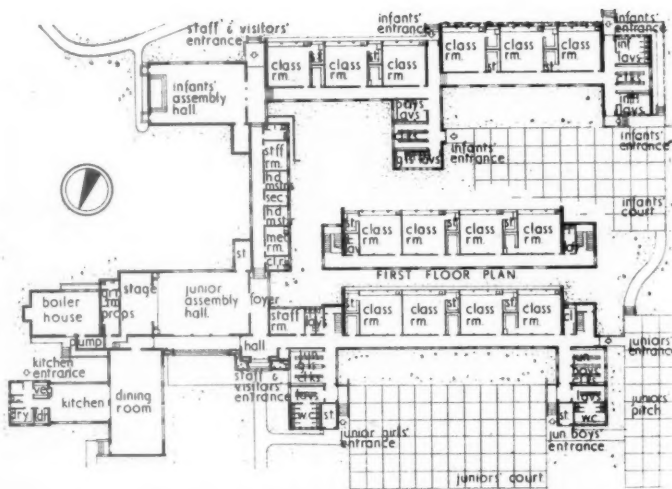


Ground floor plan. [Scale:  $\frac{1}{16}'' = 1'0''$ ]





Left, the south, above, the north fronts of the juniors' classroom block.



Ground and first floor plans. [Scale:  $\frac{1}{8}$ " = 1'0"]

## PRIMARY SCHOOL

at ERNESETTLE

designed by CITY ARCHITECT'S DEPARTMENT

This is a two-stream entry primary school with 560 places (320 juniors and 240 infants). *Construction*: steel frame, with precast concrete floor and roof units. *Walls and partitions*: brick. *External finish*: cement and sand rendering, with cement paint finish. The roof is covered with mineral surfaced bituminous felt. *Heating and hot water supply*: accelerated low pressure. *Amount of tender*: £85,333.



## COMMUNITY CENTRE

near ERNESETTLE

conversion by CITY ENGINEER'S DEPARTMENT



## FACTORY

at ERNESETTLE

designed by FULLER, HALL and FOULSHAM



## 2. HAM AND PENNYCROSS ESTATE

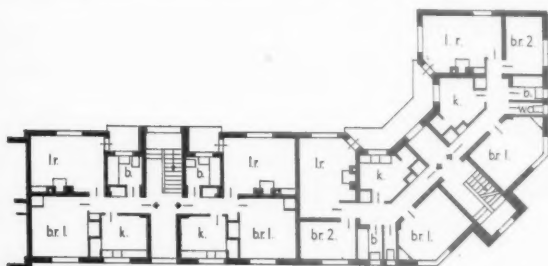
This estate has 862 dwellings, composed of traditional, Easiform, Orlit and Cornish unit houses. It lies on the edge of the pre-war housing development to the north-west of Plymouth, with a green belt lying to the north, separating it from King's Tamerton. This estate has one of the few post-war flat developments in the city, shown below.

### FLATS

at HAM DRIVE

designed by CITY ARCHITECT'S DEPARTMENT

Twelve one-bedroom flats and six two-bedroom flats. *Construction* : brick cavity walls, roughcast ; foamed slag block partitions, 6-in. concrete floors. *Accepted tender* : £22,817 10s.



Typical floor plan of flats shown right. [Scale :  $\frac{1}{8}$ " = 1' 0"]



Ham Drive from the west.





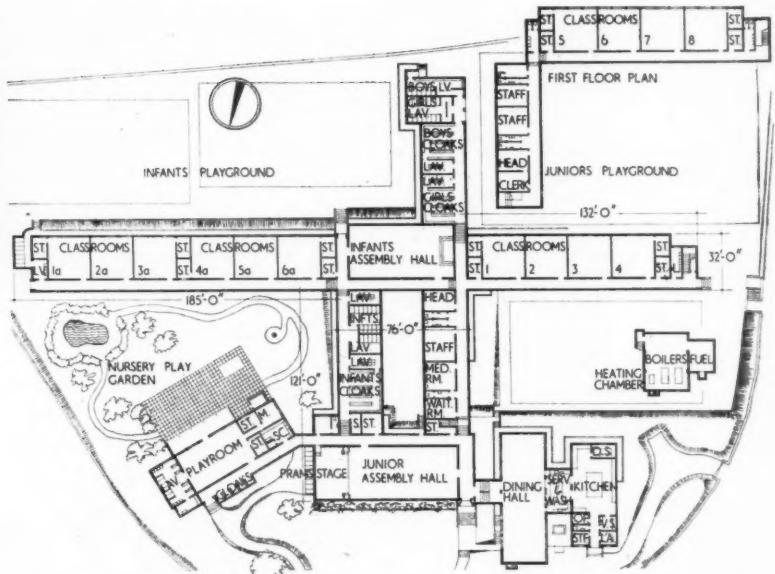
The Community Centre on the Ham Estate.

## PRIMARY SCHOOL

at HAM

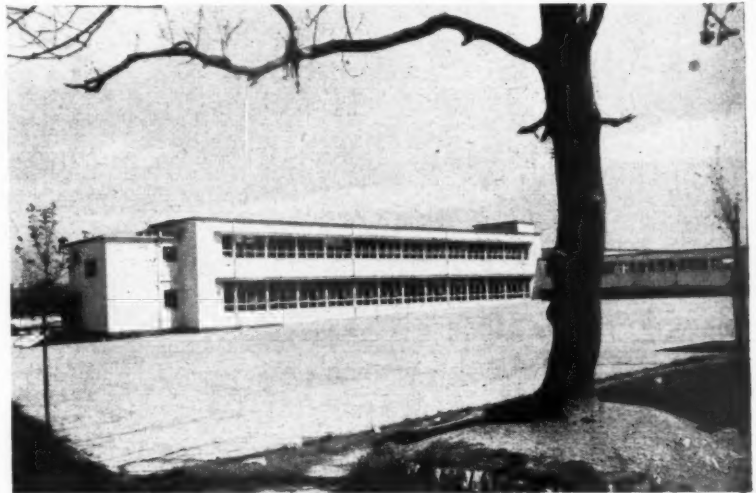
designed by CITY ARCHITECT'S DEPARTMENT

This two-stream primary school has 560 places (320 juniors and 240 infants). *Construction*: steel frame, with precast concrete suspended floor and roof units. *Roof decking*: asbestos cement. *Partitions and walls*: concrete blocks, with cement and sand rendering, finished with cement paint. *Heating and hot water supply*: accelerated, low pressure. *Estimated final cost*: £108,000, excluding the nursery block, the construction of which has been deferred.

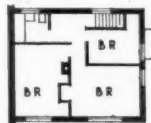


Ground and first floor plans.

From the south.



Ground and first floor plans of semi-detached two-bedroom houses.



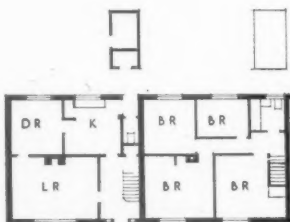
First floor plan.



Ground and first floor plans of three-bedroom semi-detached houses.



Ground floor plan of three-bedroom semi-detached houses.



Ground and first floor plans of four-bedroom terraced houses.



Site plan of Ham and Pennycross Estate.

3. WHITLEIGH ESTATE
4. HONICKNOWLE ESTATE

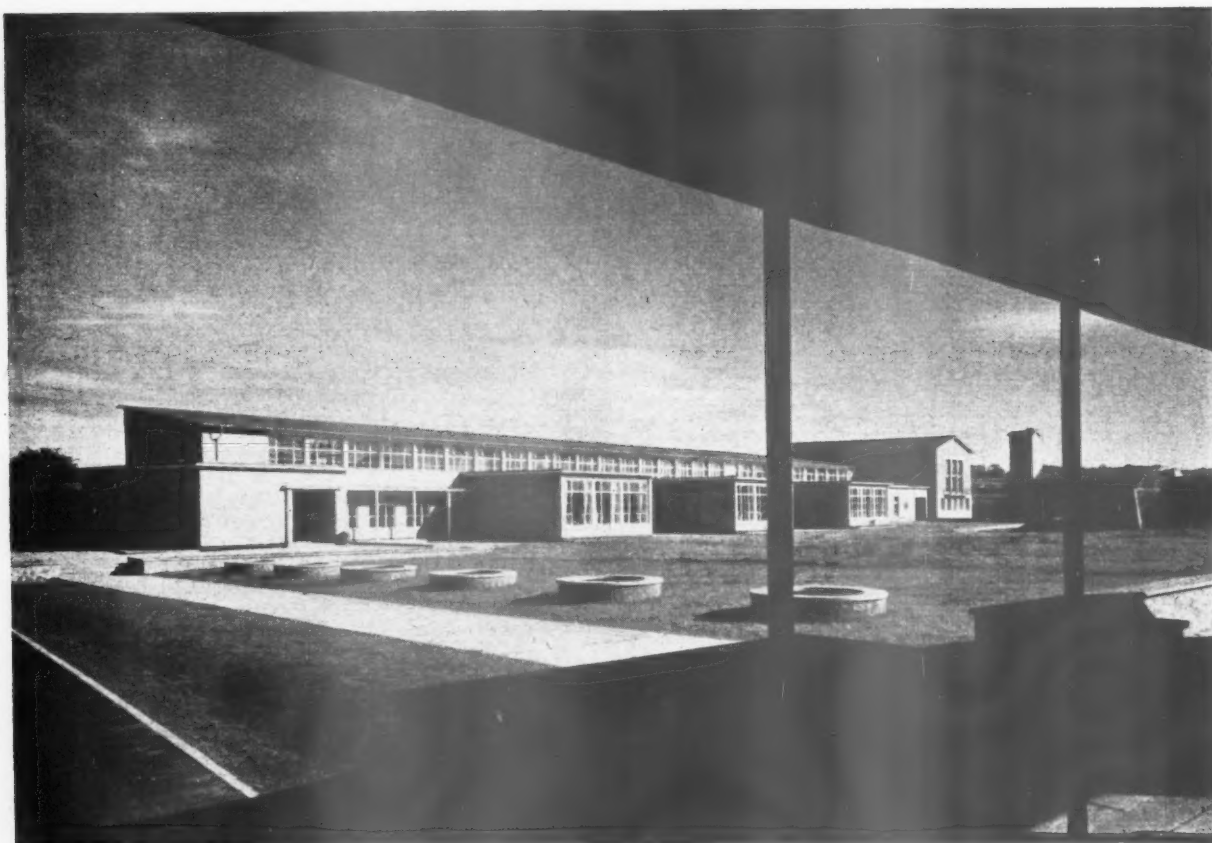
Looking south-east, this shows the west end of the nearly completed Whitleigh estate. There are 2,146 dwellings composed of traditional, Easiform and Cornish unit houses. This estate, to the east of Ernesettle, is over three miles from the city centre. In the distance on the right is part of Honicknowle estate. The pre-war development of Plymouth lies yet farther beyond.



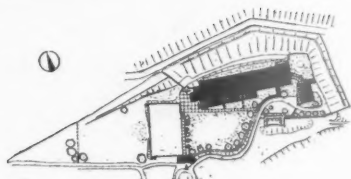
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From the entrance gate.



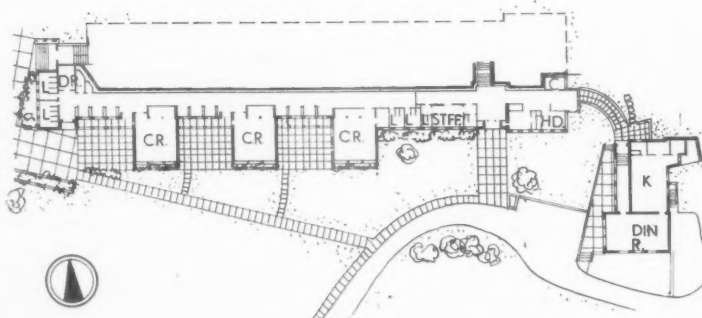
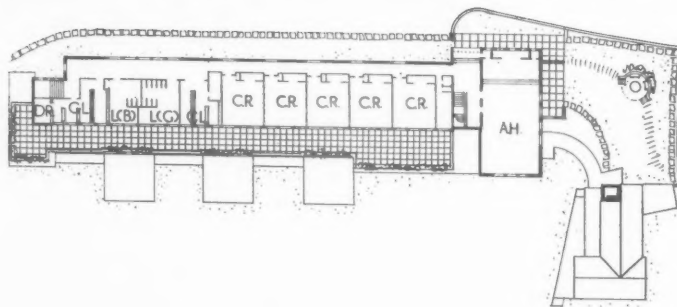
Site plan.

## PRIMARY SCHOOL

at KNOWLE FORT

designed by LOUIS DE SOISSONS and PARTNERS

This one-stream primary school is sited in an old fort, and to overcome as economically as possible the varying levels inside the fort, the infants' classrooms were planned on the level of the original floor of the fort, with the juniors' department stepped back and higher up the back. *Construction*: the assembly hall has load-bearing brick walls, elsewhere the building is framed with reinforced concrete columns supporting light welded trusses. The roof is of asbestos decking, with a covering of built-up felt. *Floors*: thermoplastic tiles, with terrazzo in entrance halls, stairs and kitchens. *Heating*: low pressure hot water. *Cost*: £170 per place.



Upper and lower level plans. (Scale: 1/4" = 1' 0")



## FACTORY

near HONICKNOWLE

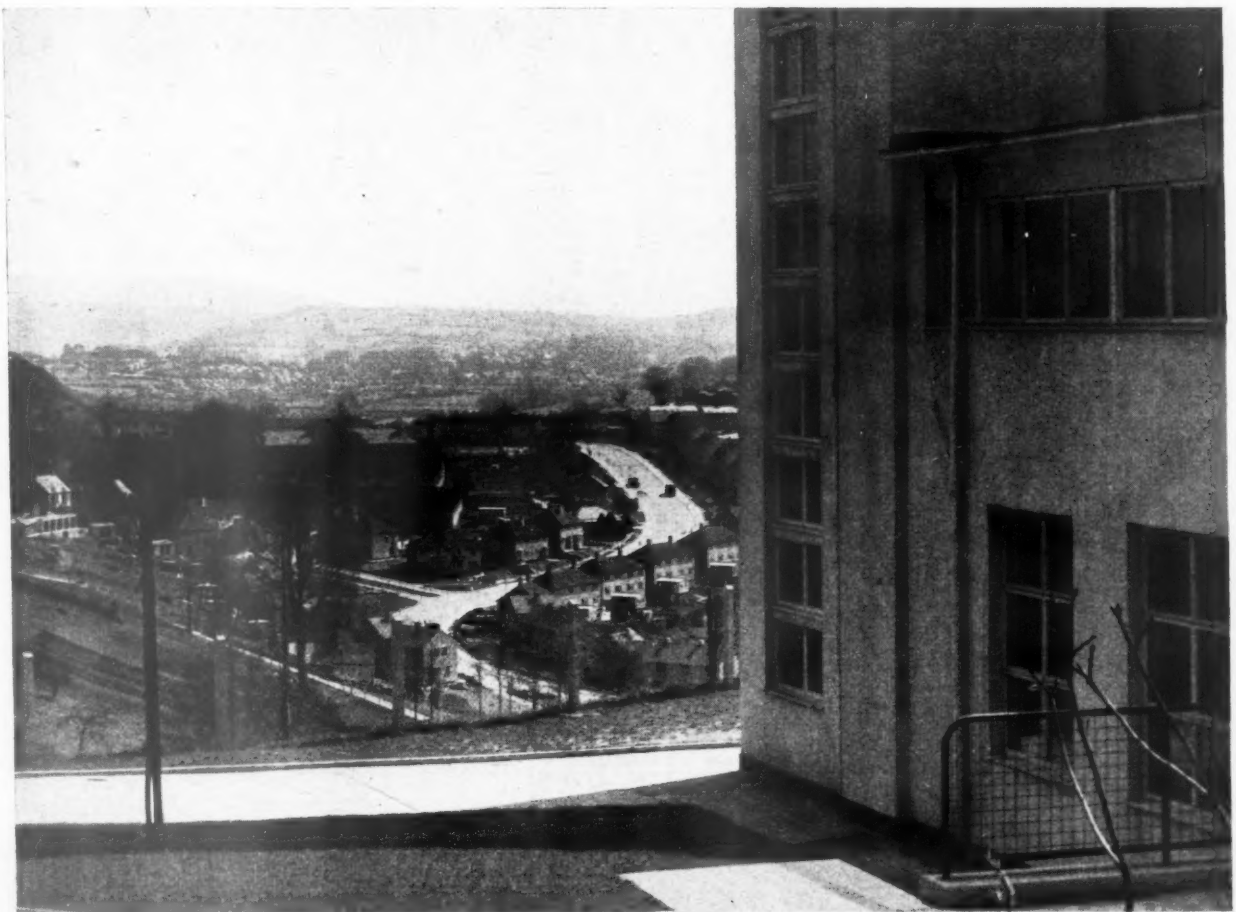
designed by A. S. REID, MOW architect

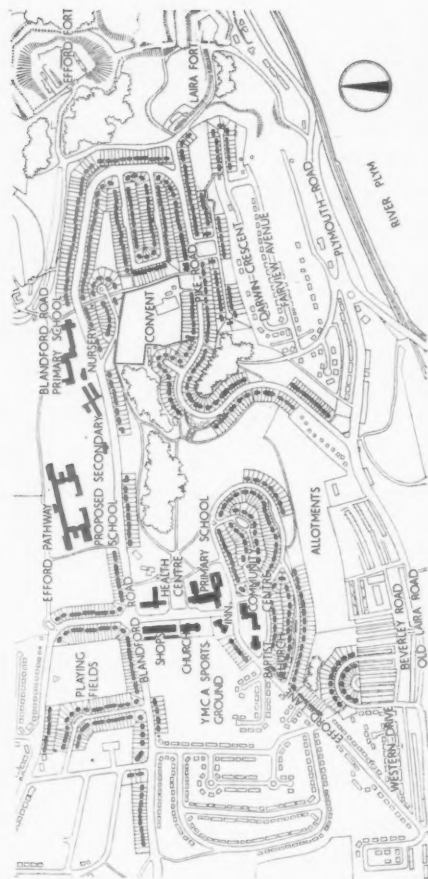
This factory was built for the MOW as a Government training centre for the building trades. In 1948 it was altered into a clothing factory.

## 5. EFFORD ESTATE

The Efford estate, the last of the five neighbourhood units briefly illustrated in this survey, consists of a total of 945 dwellings, comprising traditional, Easiform and BISF types of houses. The estate is to the east of the city and overlooks the river Plym. This river can be seen on the extreme right of the aerial view of the neighbourhood shown overleaf. The hilly nature of the housing sites around Plymouth is shown clearly in the view below. The nearby large factory at Marsh Mills is illustrated on pages 744-5.

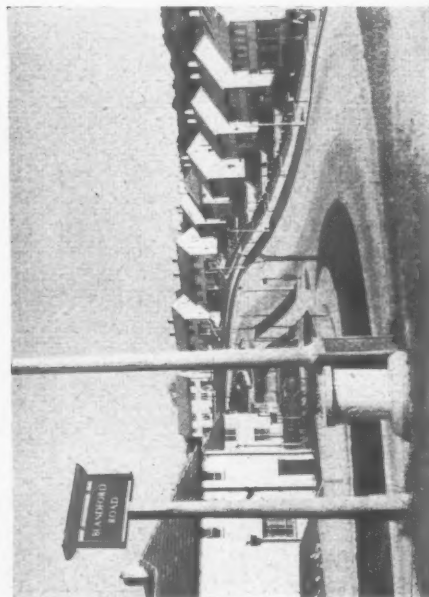
*View of Efford from the Highfield Primary School.*





## 5. EFFORD (continued)

Above, the Efford Estate, looking east, with pre-war housing in the foreground. In the middle distance, and left beyond, are the three schools shown on the site plan, right. In the far distance can be seen new housing at Plympton. The view of Blandford Road, left, is taken from the junction of the Blandford Road with Pike Road on the south-east corner of the site.









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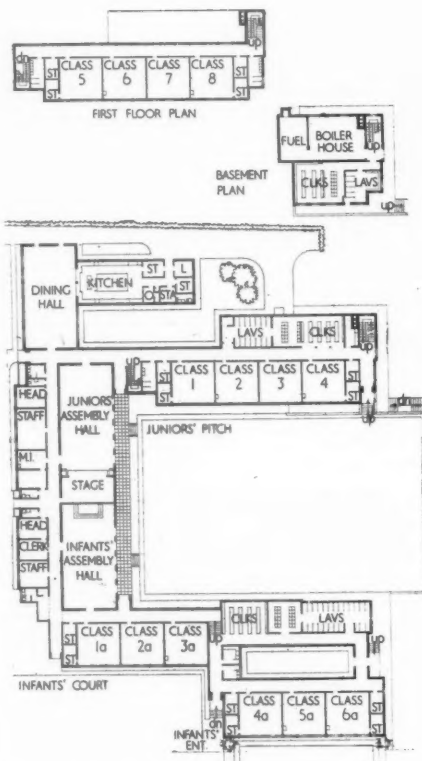


## THE MODERN WINDOW

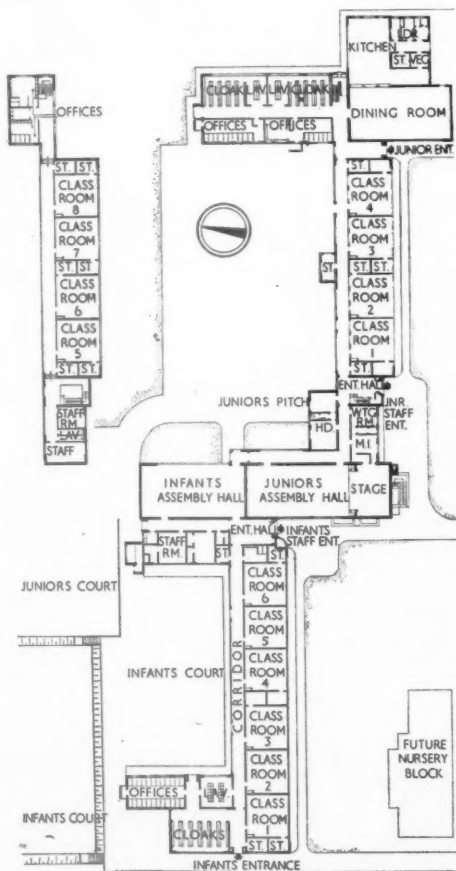
*is fitted with friction hinges  
has no stay to clutter the cill  
never slams : will not corrode*

# HOPE'S

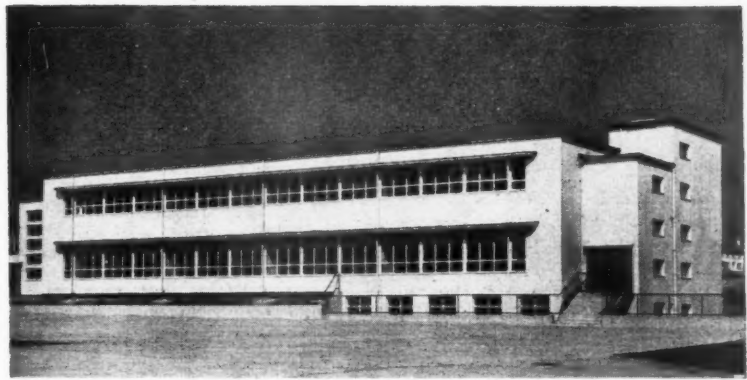
HENRY HOPE & SONS LTD., Smethwick, Birmingham, & 17 Berners St., London, W.1



Ground, first floor and basement plans.



Ground and first floor plans. [Scale: 1/2" = 1' 0"]



### PRIMARY SCHOOL

at HIGHFIELD, EFFORD

designed by CITY ARCHITECT'S DEPARTMENT

These two schools are similar in type and construction. Both are two-stream entry with 560 places (320 juniors and 240 infants). *Construction* : steel frame, with precast concrete suspended floors and roofs of asbestos cement decking. Walls and partitions are of concrete block. *External Finishes* : cement and sand rendering finished with a cement paint. *Heating* : low pressure hot water. *Estimated final costs* : for school at Highfield—£92,570 ; for school at Plym View—£92,000.

### PRIMARY SCHOOL

at PLYM VIEW, EFFORD

designed by CITY ARCHITECT'S DEPARTMENT





## Built in 16 months—using the perfect low-cost flooring



THE NEW OFFICES of the British Electricity Authority at Southwark. 14,000 square yards of Accotile—"the low-cost floor with the luxury look"—have been laid throughout the building.  
Architects: W. Curtis Green, R.A., Son and Lloyd.  
Builders: Sir Robert McAlpine and Sons Ltd.

THE FLOOR CHOSEN for the new Offices of the British Electricity Authority was Accotile (thermoplastic tile flooring made by Armstrong Cork Company Ltd.), because it fulfilled requirements of design and durability—yet cost less to install than many older types of flooring. Fourteen thousand square yards of Accotile were laid in rooms, corridors, lobbies, waiting rooms—and on stairs.

There are good reasons why so many buildings are now floored with Accotile.

*\*It is made in a wide range of designs, and no less than 21 attractive colours.*

*\*There are two sizes of tile (12" x 12" and 9" x 9").*

*\*It is hard-wearing.*

*\*It is easily maintained, and is non-slip, even when wet.*

*\*It can be laid quickly and cheaply; no damp course necessary, except where water-pressure is suspected.*

*\*Accotile is handled by 42 approved*

*The British Electricity Authority's new offices at Southwark (now nearing completion) constitute one of the largest buildings erected in London since the war. The building was completed in approximately 16 months—and the ease with which the Accotile flooring was laid contributed materially to this rate of progress.*

*contractors throughout the country.*

*\*The use of Accotile Coved Skirting gives an added finish.*

In addition to Accotile, a substantial quantity of Armstrong's Cork Tiles was laid. In a busy office building of this kind, the warmth, comfort and quietening properties of cork are especially valuable. Armstrong Cork Tiles, which can also be used for dados, are easily and inexpensively laid, and give that air of luxury that is so necessary to modern design.

For further information about Accotile and Cork Tiles, architects and

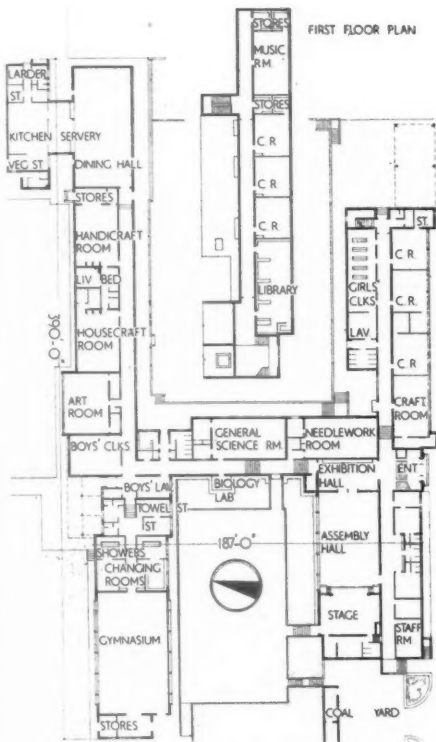
builders are invited to write or telephone to:

**Armstrong Cork Company Limited:**  
**London Office:** Flooring Department, Bush House, Aldwych, London, W.C.2. Tel: Chancery 6281. **Glasgow Office:** 5 Oswald Street, Glasgow, C.1. Tel: Central 5703. **Birmingham Office:** Westminster Chambers, 93a Corporation Street, Birmingham. Tel: Central 1271. **Manchester Office:** Royal Exchange Building, Market Street, Manchester. Tel: Deansgate 7311-2. **Dublin Office:** 54 Middle Abbey Street. Tel: Dublin 54901.

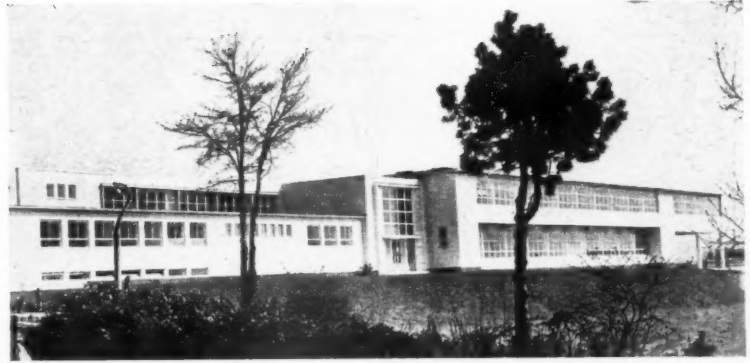
# ACCOTILE\*

*"The low-cost floor with the luxury look"*

\* British Registered Trade Mark 663895. Armstrong Cork Company Ltd., Registered Users.



Ground and first floor plans. [Scale:  $\frac{1}{4}$ " = 1' 0"]



## SECONDARY MODERN SCHOOL

at EFFORD

designed by CITY ARCHITECT'S DEPARTMENT

This two-stream school has 300 pupils (360 cost places). The present building has been designed as half of a four-stream school. It will be used only by girls when the other half of the school is built. *Construction*: similar to the schools on page 743. *Roof covering*: mineral surfaced bituminous felt. *Heating*: low pressure hot water, with floor heating coils in the craft rooms. *Estimated final cost*: £107,600, excluding the gymnasium block.

## FACTORY

at MARSH MILLS

designed by GALLANNAUGH  
NICHOLLS and WALLS

This factory is for the engineering firm of Tecalemit, Ltd. *Production bays*: These comprise ten bays each 400 ft. by 46 ft. with first floor offices at either end and in the centre. At one side of the central offices is the plant corridor running the full length

of the building, in which all the service pipes, cables, ventilation extract machinery are installed. The building is steel framed with unusual north light roofing, giving an extremely even lighting. *Toolwork and maintenance buildings*: floor area

From the south.



# Plymouth Rebuilding

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*Architect: W. J. Reed, F.R.I.B.A.*

**PREMISES for BOOTS CASH CHEMISTS (WESTERN) LTD., Plymouth.**

*Architect: C. St. C. Oakes, M.B.E., F.R.I.B.A., F.R.S.A.*

**STORE for F. W. WOOLWORTH & CO. LTD., New George Street, Plymouth.**

*Architect: H. Winbourne, F.R.I.B.A.*

**SHOPS and SHOWROOMS, New George Street, Plymouth, for  
MESSRS. J. SEARS & CO., W. BARRETT & CO., LAWLEYS & H. SAMUEL.**

*Architects: W. H. Watkins, Gray, F.R.I.B.A. & Partners, Bristol.*

**PREMISES for MESSRS. MANFIELD & SONS, and MESSRS. H. A. LEON & CO., New George Street, Plymouth.**

*Architects: W. H. Watkins, Gray, F.R.I.B.A. & Partners, Bristol.*

**OFFICES for THE WESTERN NATIONAL OMNIBUS CO. LTD., Laira Bridge Road, Plymouth.**

*Architect: Alan A. Brigg, F.R.I.B.A., The Tilling Association, London.*

**PEARL ASSURANCE HOUSE, Plymouth.**

*Architects: Alec F. French & Partners, Bristol & Plymouth.  
Consultants: T. S. Tait, F.R.I.B.A., Sir John Burnet, Tait & Partners, London.*

**PREMISES for F. T. B. LAWSON LTD., New George Street, Plymouth.**

*Architects: Messrs. Body Son & Fleury, 22 Lockyer Street, Plymouth.*

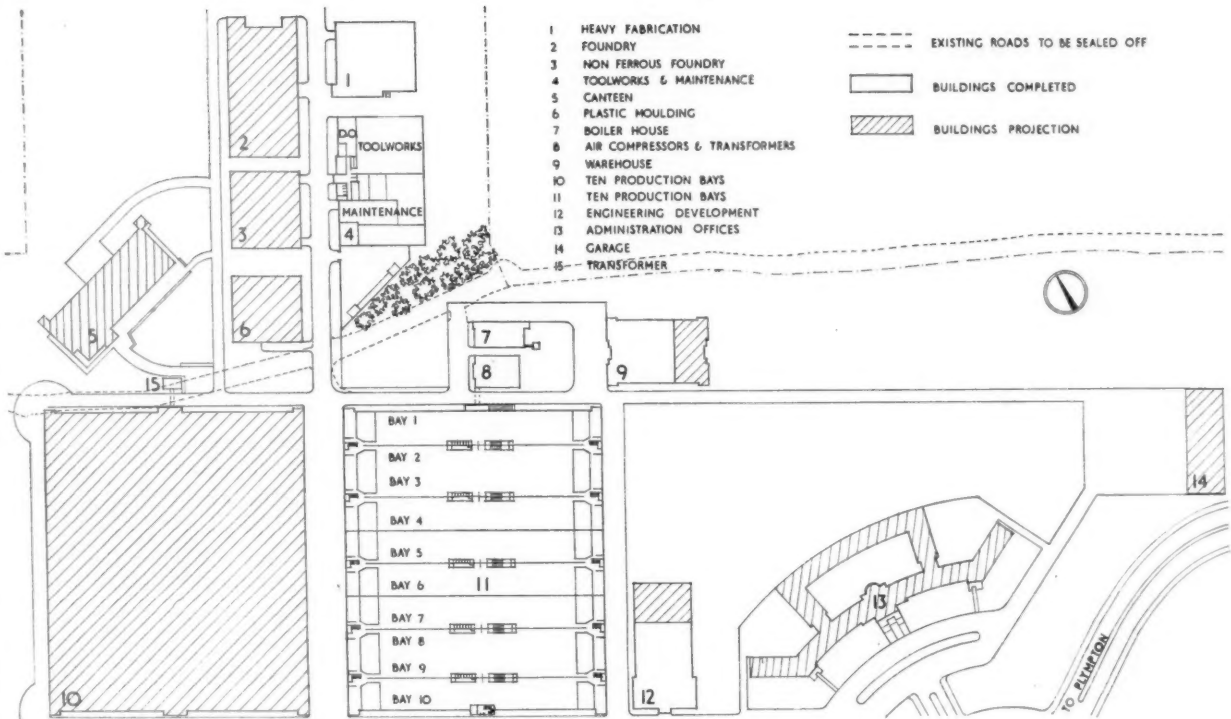
**HOUSING at WHITLEIGH, ERNESETTLE, HONICKNOWLE, HAM and EFFORD.**

*Plymouth City Architect.*

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## THE TRUSSED CONCRETE STEEL CO. LTD.

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Site plan.

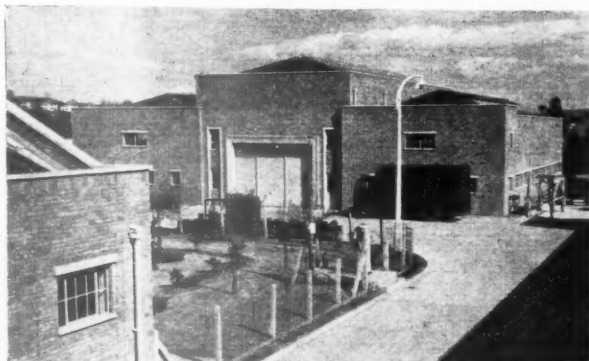
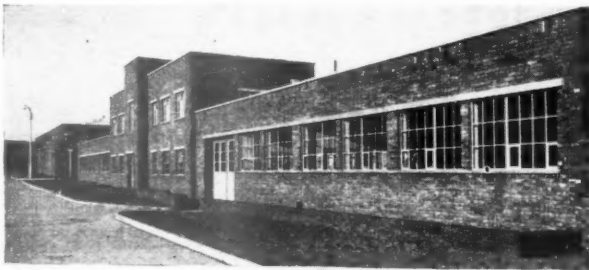
28,000 ft. super. These buildings have separate functions, although sharing a common office portion. They are both steel framed with 11-in. cavity wall construction, but the toolworks has north light roof trusses and the maintenance building equal pitch  $22\frac{1}{2}$  deg. trusses.

*Engineering development building* : floor area approximately 14,000 ft. super. Front portion two-storey offices and stores, single storey behind.

*Warehouse* : floor area 16,000 ft. super. built. (Ultimate size 24,000 ft. super.) Steel-framed building, with eight-ton gantry crane for loading and off-loading inside building. 11-in. cavity brickwork. *Interior finish* : fairfaced brickwork painted. Wood block loading floor.

*Plant houses* : comprising boiler house, electrical transformer house, and air compressor house. Steel frame construction, 11-in. cavity walls.

*Below left, the toolworks and main terrace buildings. Below right, the engineering development building. Bottom left, the warehouse. Bottom right, the plant houses.*





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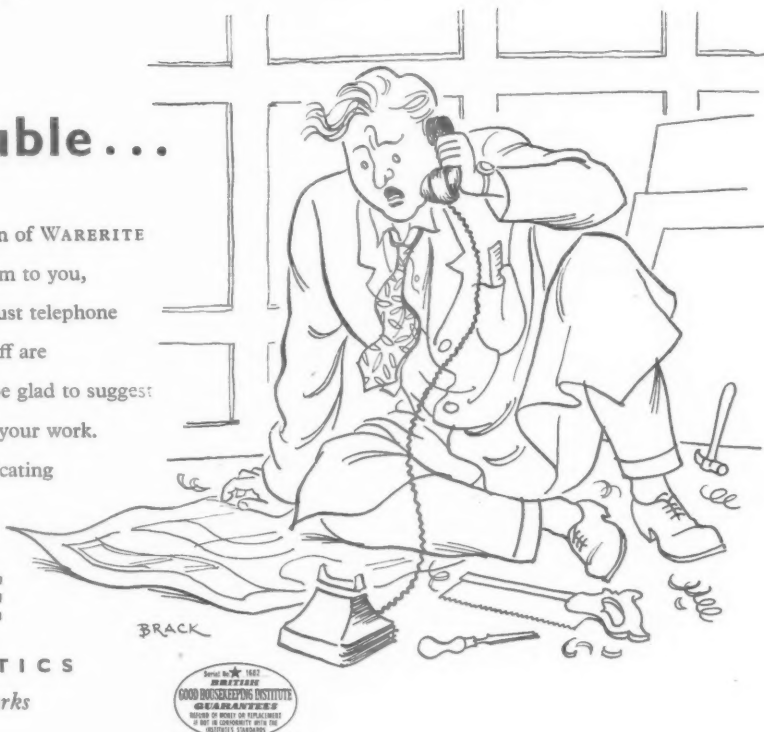
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**\*The N.A.A.F.I. Club, Plymouth**

ARCHITECTS: MESSRS. JOSEPH, F.F.R.I.B.A.  
CONTRACTORS: LAVENDER, McMILLAN LTD.

## VENEERED PANELLING SELECTED HARDWOODS

for the under-mentioned rooms were supplied by us.

Club Lounge	.	.	.	.	French Walnut
Tavern	.	.	.	.	French Walnut
Concourse Ground Floor	.	.	.	.	White Sycamore
Concourse Mezzanine Floor	.	.	.	.	White Sycamore
Dance Hall	.	.	.	.	White Sycamore
Foyer to Dance Hall	.	.	.	.	White Sycamore
Cocktail Bar	.	.	.	.	White Sycamore

**ARMOURPLY** Aluminium faced plywood was used for doorway Architraves.

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\*Phones: SHoreditch 7654 (10 lines).

\*Grams: "Almoner", London.

## Buildings Illustrated

City Architect: H. J. W. Stirling, A.R.I.B.A.; Deputy Architect: F. Napp, A.R.I.B.A., A.M.T.P.I.; Chief Assistant: A. C. Harris, A.R.I.B.A. Assistants for Flats: Principal Assistant, Housing Section: D. Hunt, A.R.I.B.A.; for Ham Drive Flats: R. F. H. Gurling, A.R.I.B.A.; for Rendle Street Flats: G. Roberts; for Bayswater Terrace Flats: G. Roberts.

Assistants for Houses: Traditional houses: W. Caie Walker, A.R.I.B.A., Margaret Driver, A.R.I.B.A., R. P. H. Gurling, A.R.I.B.A., and G. Roberts.

Assistants for Schools: Principal Assistant, Schools Section: M. Cook, L.R.I.B.A.; Assistants working on all six schools: F. Lawrence, A.R.I.B.A., E. Blight, A.R.I.B.A., H. Miller, A.R.I.B.A., L. L. Luck, A.R.I.B.A., V. Toms, A.R.I.B.A., F. G. Ford and A. Fletcher.

**Pearl Assurance House, Plymouth.** (Pages 721-722.) Architects: Alec F. French & Partners, F./L.R.I.B.A. Consultant: T. S. Tait, F.R.I.B.A. Quantity surveyors: Gleds, Carving, Barney Seal F.R.B.S., R.B.A., F.R.S.A. Consulting structural engineers: John F. Farquharson & Partners. Consulting mech. eng.: A. N. Irens, M.I.E.E. General contractors: Staverton Builders Ltd. Sub-contractors: Blinds, Artistic Blind Co. Ltd.; heating, H.W.S. and ventilation, Brightside Foundry & Engineering Co. Ltd.; bath stone, Bath & Portland Stone Firms Ltd.; faience work, Carter & Co. Ltd.; metal ducts, refuse chutes, grilles, etc., Edmund Metal Works Ltd.; electrical installation, Devon Electric & General Services Ltd.; structural steelwork, Dawns Ltd.; suspended floors and roofs, Diespeker & Co. Ltd.; lighting conductors, W. J. Furze & Co. Ltd.; bronze windows, lantern lights and balustrading, Gardiner, Sons & Co. Ltd.; steel rolling shutter, Haskins Rolling Shutter; metal door frames, Henry Hope & Sons Ltd.; marblework, Walter W. Jenkins & Co. Ltd.; "Glas-crete" canopy and windows, J. A. King & Co. Ltd.; asphalt, The Limmer & Trinidad Lake Asphalt Co. Ltd.; metal casements, Monk Metal Window Co. Ltd.; terrazzo work, The Marble Mosaic Co. Ltd.; bronze doors and windows, George Parnall & Co. Ltd.; ironmongery, Stedall & Co. Ltd.; gas installation, South Western Gas Board; flush doors, John Sadd & Sons Ltd.; wood block flooring, Stevens & Adams Ltd.; plumbing, Arthur Scull & Sons Ltd.; lifts, Waygood-Otis Ltd.; facing bricks, The Flint & Uxbridge Brick Co.

**Store for Messrs. Dingle, Royal Parade, Plymouth.** (Pages 722-723.) Architects: Sir John Burnet, Tait & Partners. General contractors: James Longley. Sub-contractors: Heating, drainage, ventilation and plumbing, Matthew Hall & Co. Ltd.; steel, Dawns Ltd.; lifts and escalator, Waygood-Otis Ltd.; stone, Bath & Portland Stone Firms Ltd.; steel stairs, Critical Brab & Co.; windows and roof lights, Crittall Manufacturing Co. Ltd.; electrical work, Troughton & Young Ltd.; shopfittings, George Parnall & Co.; floors and terrazzo, Diespeker & Co. Ltd.; glass brick panels, Lensecrete Ltd.; paint, Keystone Paint & Varnish Co. Ltd.; false ceilings (Colterro), W. H. Colt (London) Ltd.; roofing, Neuchatel Asphalt Co. Ltd.; gas incinerators, Wm. Sugg & Co. Ltd.; sanitary fittings, Wiggins-Saunders Ltd.; ironmongery, James Gibbons Ltd.; roller shop blinds, J. Avery & Co. Ltd.; automatic telephones, Standard Telephones & Cables Ltd.; safes, Milners Safe Co. Ltd.; special flooring, The Val de Travers Asphalt Paving Co. Ltd.; cork floors, Armstrong Cork Co. Ltd.; cold glaze, Robb's Cement Enamel Finishes Ltd.; doors, Veneercraft Ltd.; slatted blinds, Tidmarsh & Sons; plaster, Tomei & Sons Ltd.; acoustic tile, Horace W. Culum & Co. Ltd.; fire-fighting equipment, Pyrene Co. Ltd.; metal partitions, Roneo Ltd.; parcel chute, G. K. Jensen & Co. Ltd.

**Shops and Showrooms for Norwich Union & Ravenscroft Properties Ltd.** (Page 724.) Architects: Donald Hamilton, Wakeford & Partners. Quantity surveyor: Gordon Harris, A.R.I.B.A., A.L.A.B. General contractors: Dudley Coles. Clerk of works: W. Pennington. General foreman: C. Canten. Sub-contractors: Asphalt roofing felt, Limmer & Trinidad; reinforced concrete, Caxton Floors Ltd.; bricks, South Western Brick Co.; stone, Bath & Portland Stone Firms; structural steel, Moreland Hayne; fireproof construction, granolithic staircases to all shops, plumbing, Dudley Coles; partitions (third floor offices glazed), Frederick Braby & Co. Ltd.; partitions, Bennett Flooring & Roofing Co. Ltd.; damp-resisting paint, R.I.W. Protective Products Co. Ltd.; central heating, boilers, Matthew Hall & Co. Ltd.; gas fittings, South Western Gas Board; electric wiring, Thorpe & Thorne Ltd.; electric light fixtures, Thorn Electrical Industries Ltd.; sanitary fittings, George Farmiloe & Sons Ltd.; door furniture, W. N. Froy & Sons Ltd.; casements and window furniture, Luxfer Ltd.; iron staircases, C. A. & A. W. Hawsards Ltd.; sunblinds, Artistic Blind Co.; plaster, Tomei & Sons Ltd.; balustrading to all staircases, canopies and landings, Woodrow Metals; handrails to balustrades and balustrading to one shop, Dudley Coles; marble, Art Pavements & Decorations Ltd. (travertine wall facings to entrance hall and terrazzo tiles and *in situ* main staircase and landings); flower boxes and armour plate doors, A. Davies (Shopfitters) Ltd.; office fittings, Elliotts of Reading; lifts, Aldous & Campbell Ltd.; doors, Glistkens Doors; Potterton gas boilers, Thomas de la Rue & Co. Ltd.

**Shop for W. H. Smith & Son Ltd., New George Street, Plymouth.** (Page 725.) Architect: W. Norris, staff architect to W. H. Smith & Son Ltd.

Assistant architect: S. J. H. Jackson. Quantity surveyors: Mager & Greenaway. General contractors: Pearu Bros. Ltd. Sub-contractors: Electrical services, Drake & Gorham Ltd.; mosaic paving, Camden Tile Co. Ltd.; precast concrete beams, Teign Valley Concrete Co. Ltd.; oak blocks, "Acme"; lift, Waygood-Otis Ltd.; fluorescent light fittings, Siemens Ltd.; pressure heating installation, Norris Warming Co. Ltd.; shopfitters, Eustace & Partners Ltd.; flat concrete roofs and tanking to basement, Improved Asphalt Co. Ltd.

**Premises for Marks & Spencers Ltd., Old Town Street, Plymouth.** (Page 725.) Architect: Lewis & Hickey, F./A.R.I.B.A.; sculptured panels, E. Bainbridge Copnall, M.B.E., F.R.S.B., N.R.D.; interiors to staff rooms, James Gardner, O.B.E., R.D.I. Consulting engineers (structures and foundations): David W. James-Carrington, B.Sc. General contractors: Bovis Ltd. Sub-contractors: Electrical work, Bower Engineering Works Ltd.; structural steel, Banister Walton & Co. Ltd.; heating, hot water system and ventilation, C. B. Jackson & Co. Ltd.; hollow tile floors and R.C. work, Diespeker & Co. Ltd.; R.C. roof lights, Luxfer Ltd.; plumbing, A. Scull & Son Ltd.; windows, Crittall Manufacturing Co. Ltd.; lifts, Wm. Wadsworth & Co. Ltd.; reconstructed stone, Empire Stone Co. Ltd.; asphalt, Rock Asphalt Co. Ltd.; waterproof rendering, Quickset Water Sealers Ltd.; terrazzo, Art Pavements & Decorations Ltd.; gold mosaic, Art Pavements & Decorations Ltd.; shop front, Holtum & Green Ltd.; marble work, Anselm Odling & Sons Ltd.; fibrous plasterwork, Tomei & Sons Ltd.; plaster, Tomei & Sons Ltd.; sematic floors, Semtex Ltd.; wall and floor tiling, Summers & Co.; granolithic paving, Stuart's Granolithic Co. Ltd.; bronze jardiniere, The Morris Singer Co. Ltd.

**Premises for Woodhills (Plymouth) Ltd., at New George Street, Plymouth.** (Page 726.) Architects: de Metz & Birks, F./R.I.B.A. Quantity surveyors: Veale & Sanders, F./R.I.C.S. Consulting engineer: W. V. Zinn, B.Sc., M.I.C.E. General contractors: Pearu Bros. Ltd. Sub-contractors: Metal windows and balustrades, Gardiner & Sons & Co. Ltd.; lift installation, Keighley Lifts Ltd.; shopfront and fittings, Messrs. Haskins; heating installation, M. & J. Lossos & Co. Ltd.; electrical installation, Thorpe & Thorne Ltd.; portland stonework, South Western Stone Co. Ltd.; granite, Anselm Odling & Sons Ltd.; rubber and cork flooring, Haskell Robertson & Co. Ltd.; concrete dome lights, Haywards Ltd.; asphalt, Limmer & Trinidad Lake Asphalt Co. Ltd.

**Premises for Timothy Whites & Taylors Ltd., New George Street, Plymouth.** (Page 726.) Architects: B. A. Savage, staff architect. Quantity surveyors: G. D. Walford & Partners. General contractors: Pearu Bros. Ltd. Sub-contractors: Reinforcement bar supplied, bent and fixed, Indented Bar Co.; heating and ventilation, J. H. Nicholson & Co. Ltd.; concrete facings, Anselm Odling Ltd.; portland stone facings, South Western Stone Co. Ltd.; electric lift, Aldous & Campbell; asphalt roof, Asphalt Specialists Ltd.; suspended ceilings, Gyproc Products Ltd.; lantern lights and windows, Mellows Ltd.; specially made windows, laylights, balustrading, grilles, etc., H. & C. Davis & Co. Ltd.; electrical installation, Holmes & Larkinson; shopfront and interior fittings, O. Peterson Ltd.

**Shops and Showrooms for Messrs. Jas. Woodhouse & Messrs. A. L. Salisbury, in New George Street, Plymouth.** (Page 726.) Architects: Percy V. Barnett & Partners. Architect for A. L. Salisbury's shopfront and shopfitting work: Harry Simcock. General contractors: A. N. Coles (Contractors) Ltd. Sub-contractors: Structural steelwork, Dawns Ltd.; electrical work, Drake & Gorham (Contractors) Ltd.; metal windows, A. & Davis & Co. Ltd.; asphalt tanking and roofs, The Ragusa Asphalt Paving Co.; portland stone facings to elevations, South Western Stone Co. Ltd.; Cornish granite facings, Anselm Odling & Sons; suspended ceilings, W. H. Colt (London) Ltd.; reinforced concrete work, Indented Bar & Concrete Engineering Co. Ltd.; Stent Precast Concrete Ltd.; sanitary fittings, Alfred Goslett & Co. Ltd.; central heating and hot water, J. H. Nicholson & Co. Ltd.; oak block floors, Bennett's Wood Flooring Tunnell Co. Ltd.; Bennie Lifts Ltd.; roller shutter, Haskins Ltd.; stainless steel handrails, Harris & Sheldon; aluminium section handrailing for staircase, J. Starkie Gardner Ltd.; Woodhouse's shopfront, A. Edmonds & Co. Ltd.

**Premises for Wilsons, New George Street, Plymouth.** (Page 726.) Architects: Taylor & Bracken. Quantity surveyors: Banks, Wood & Partners. General contractors: Dudley Coles. Sub-contractors: Stone, South Western Stone Co. Ltd.; structural steel, E. J. Cook & Co. Ltd.; shopfitters, Sharp & Law; steel staircase and balustrading, Woodrow Metals Ltd.; ornamental glass, Andrewartha Ltd.

**Premises for F. W. Woolworth & Co. Ltd., New George Street, Plymouth.** (Page 727.) Architect: H. Winbourne, F.R.I.B.A. General contractors: F. W. Woolworth & Co. Ltd., construction department. Sub-contractors: Structural steelwork, Banister Walton & Co. Ltd.; hollow clay blocks, Iron & Marble Co. Ltd.; plastering, A. V. Telling (Bristol) Ltd.; fibrous plaster cornices and caps, Crotch & Son Ltd.; suspended ceilings, Rudders & Payne Ltd.; shop entrance lobby tiles, Standard Pavements Co. Ltd.; bricks, Western Country Brick Co. Ltd.; electrical installation, Clark & Bridle; metal windows, James Gibbons Ltd.; precast concrete floor and roof units, Truscon Floors Ltd.; portland cement, Cement Marketing Co. Ltd.; fabric reinforcement, Twistell Reinforcement Ltd.; portland stone to front elevation and

copings, Bath & Portland Stone Firms Ltd.; asphalt, Ragusa Asphalt Co. Ltd.; goods lift, Evans Lifts Ltd.; glass blocks, Pilkington Bros. Ltd.; roof lights, J. A. King & Co. Ltd.; roller shutters, Potter Rax Ltd.; reconstructed stone window cills, jambs and heads, F. J. Moore Ltd.; lantern lights and laylights, Luxfer Ltd.; terrazzo flooring, Standard Pavements Co. Ltd.; cast iron drainage and plumbing, Johnsons & Baxter Ltd.; precast concrete stairs, Stuart's Granolithic Co.; reinforced concrete beam castings, F. J. Moore Ltd.; heating and ventilation, Smeaton & Sons Ltd.; shopfront, J. Curtis & Son Ltd.; oil burning equipment, Combustions Ltd.; acrotile flooring, National Flooring Co. Ltd.; wall tiling, Standard Pavements Co. Ltd.; blinds, J. Dean (Blinds) Ltd.; glass fascia and pelmet, J. M. Newton & Son Ltd.; fluorescent lighting fittings, C.W.C. Equipment Ltd.; tea bar unit, Gardiner & Gulland Ltd.; Perspex letters, Splintex Safety Glass Ltd.

**Six Shops in New George Street, Plymouth.** (Page 727.) Architects: H. Watkins, F.R.I.B.A. & Partners. Quantity surveyors: Horace W. Langdon & Every. General contractors: A. N. Coles (Contractors) Ltd. Sub-contractors: Reinforced concrete, Trussed Concrete Steel Co. Ltd.; portland stone, Bath & Portland Stone Firms Ltd.; granite pilasters, Hohn Freeman & McLeod; metal windows, Brunswick Metal Casement & Engineering Co. Ltd.; heating, G. N. Haden & Sons Ltd.; asphalt roofing, Ragusa Asphalt Paving Co. Ltd.; glass floors, Semtex Ltd.; roof floors, Stevens & Adams Ltd.; circular dome lights, John Hall & Sons (Bristol & London) Ltd.; pavement lights, J. A. King & Co. Ltd.; escape staircase, Woodrow Metals Ltd.

**Premises for F. T. B. Lawson Ltd., New George Street, Plymouth.** (Page 728.) Architects: Body, Son & Fleury. General contractors: John Garrett & Son Ltd. Sub-contractors: Steelwork, Blight & White Ltd.; stonework, The Bath & Portland Stone Firms Ltd.; facing bricks, Uxbridge Flint Brick Co. Ltd.; precast floors, The Trussed Concrete Steel Co. Ltd.; floor finishes (ground floor wood blocks), Reeves & Fox, Elliott Ltd.; (first and second floors), Semtex Ltd.; heating, The Thames Bank Iron Co.; windows, Williams & Williams Ltd.; lantern lights, The Crittall Manufacturing Co. Ltd.; roof lights, J. A. King & Co. Ltd.; asphalt roofing and damp-proof courses, The Neuchatel Asphalt Co. Ltd.; shop front, E. Pollard & Co. Ltd.; shop fittings, E. Pollard & Co. Ltd. and the Mayflower Construction Co.; steel shelving, Constructors Ltd.; electrical, Madge & Son; ironmongery, F. T. B. Lawson Ltd.; sliding doors, P. C. Henderson Ltd.

**Royal Insurance Co., Plymouth.** (Page 728.) Architects: Alec F. French & Partners, F./L.R.I.B.A.; F. R. Fisher, L.R.I.B.A., company's architect. Consultant: T. S. Tait, F.R.I.B.A. Quantity surveyors: Gleds. General contractors: Richard Costain Ltd. Sub-contractors: Portland stone, Bath & Portland Stone Firms Ltd.; heating, hot water and ventilation, Brightside Foundry & Engineering Co. Ltd.; bronze work, Birmingham Guild Ltd.; suspended floors, Diespeker & Co. Ltd.; structural steelwork, Dorman Long & Co. Ltd.; electrical installation, W. G. Heath & Co. Ltd.; asphalt work, Limmer & Trinidad Lake Asphalt Co. Ltd.; metal windows and ornamental panels, Monk Metal Window Co. Ltd.

**Premises for the NAAFI Club, Plymouth.** (Page 729.) Architects: E. M. Joseph, C.R.E., F.R.I.B.A.; F. Milton Cashmore, F.R.I.B.A., and N. S. Joseph, B.A. General contractors: Taylor & Bracken Ltd. Sub-contractors: Structural steelwork, Redpath Brown & Co. Ltd.; precast floors, Concrete Ltd. (Bison floors); heating, ventilation, plumbing and sanitary work, Mumford Bailey & Preston Ltd.; electrical installation, Drake & Gorham (Contractors) Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; lifts, Hammond & Champness Ltd.; facing bricks, The Western Counties Brick Co. Ltd.; Portland stone facings, South Western Stone Co. Ltd.; artificial stone, F. J. Moore Ltd.; joinery, Woodworth Joinery Ltd.; veneered panelling, W. Mallinson & Sons Ltd.; terrazzo paving and wall linings, Diespeker Ltd.; wall and floor tiling, J. W. Sergeant & Co.; pavement lights and canopy, Lensecrete Ltd.; plastering including decorative fibrous plaster, Tomei & Sons Ltd.; suspended ceilings, Anderson Construction Co. Ltd.; glass and glazing, Faulkner, Greene & Co. Ltd.; architectural metalwork, Cufford Art Metal Co. Ltd.; wrought iron work railings and guard bars, Woodrow Metals Ltd.; wood block and strip floors, Stevens & Adams Ltd.; cork flooring, G. Stephenson & Co. Ltd.; electric clocks and loud speakers, Magneta Time Co. Ltd.; lighting fittings, Troughton & Young Ltd.; sanitary fittings, Shanks Ltd.; decorative lions, Gleds & Fenn Ltd.; ironmongery, Nettlesford & Moser Ltd.; catering equipment, Gardiner & Gulland Ltd.; bar equipment, Gaskell & Chambers Ltd.; steel grille and roller shutter, A. L. Gibson Ltd.; parapet roofing, Frazzi Ltd.; asphalt work (roofing), The General Asphalt Co. Ltd.; lightning conductor, Messrs. R. C. Cutting; cold storage, International Refrigeration Co.; kiosk and back fittings to tavern and cocktail bar, A. Edmonds & Co. Ltd.; gates to loading bay, Messrs. Potter Rax; fireplaces and stone fireplaces in lounge, Messrs. Bratt Colbran.

**St. Teresa Bakery, Plymouth.** (Page 730.) Architects: Sir John Burnet, Tait & Partners, F./R.I.B.A. General contractors: Pearu Bros. (basement and ground floor; first, second and third floors, William Cowlin & Son Ltd. Sub-contractors: Heating, hot water, plumbing and drainage, Matthew Hall & Co. Ltd.; steelwork (ground and first floors), Blight & White Ltd.; (first floor), Laidlaw Smith & Co.; (second and

third floors), Dawneys Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; lifts, Jensen & Co.; precast concrete work, F. J. Moore; flat roofs, Standard Flat Roofing Co., The Val de Travers Asphalt Paving Co.; hollow tile floors, Diespeker & Co. Ltd.; ironmongery, James Gibbons Ltd.; office partitions (third floor), Ronco Ltd.; metal staircases, Frederick Braby & Co. Ltd.; sanitary fittings, John Bolding & Sons Ltd.

**Bakery for Messrs. Goodbody-Matthews Ltd., at Plymouth.** (Page 731.) Architect: Kenneth M. B. Cross, M.A., F.R.I.B.A., Builders: Staverton Builders Ltd. Sub-contractors: Floors, Diespeker Ltd.; structural steelworks, Dawneys Ltd.; facing bricks, Western Counties Brick Co. Ltd.; asphalt roofing, Val de Travers; thermoacoustic slab, Thermoacoust Ltd.; artificial stone copings, Empire Stone Co. Ltd.; asbestos roofings, Asbestos Cement Roofings; metal windows and lantern lights, Crittall Manufacturing Co. Ltd.; heating, hot water and ventilation, Z. D. Berry & Sons Ltd.; electrical installation, Drake & Gorham; goods lifts, Express Lift Co. Ltd.; floor units, Stelcon Industrial Floors Ltd.; iron balustrades, Haywards Ltd.; roller shutters, Haskings; copper clis, G. A. Harvey & Co. Ltd.; pastry racks, The United Yeast Co. Ltd.; pressed steel lavatory cubicles, Crittall Manufacturing Co. Ltd.; wire mesh screen and doors and clothes lockers, G. A. Harvey & Co.; floor finishes, Bristol Art Floors; petrol pump, Avery-Hardoll Ltd.; entrance gates, John Ford Ltd.; sanitary fittings, John Bolding & Sons; tecalemit, Tecalemit Ltd.; door furniture, Adrian Stokes Ltd.; wall tiling, Carter & Co. (London) Ltd.; incinerator, The Incinerator Co.; electric light, fittings, General Electric Co.; internal telephones and loudspeaker equipment, Dictograph Telephones Ltd.; R.I.W. marine cement, R.I.W. Protective Products.

**Grocery Warehouse for the Plymouth Co-operative Society Ltd., North Quay, Plymouth.** (Page 731.) Architect: W. J. Reed, F.R.I.B.A., General contractors: Works Department, Plymouth Co-operative Society, Ltd. Sub-contractors: Reinforced concrete work and piling, Trussed Concrete Steel Co. Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; glazing, Martin Dunn Ltd.; granolithic terrazzo and steel floorings, Proderick Ltd.; reconstructed stone and concrete bricks, F. J. Moore Ltd. (Plymouth); roller shutters, Brady & Co. Ltd.; goods lifts, Evans Lids Ltd.; metal partitions, C.W.S. Ltd.; balustrading and handrails, Woodrow Metals Ltd. (Plymouth); asphalt flats, Limmer & Trinidad Lake Asphalt Co.; office floors, Semtex Ltd.; electric clocks and time recording system, International Time Recording Co.; internal telephones, Dictograph Telephones Ltd.; refrigeration, William Douglas & Son Ltd.; roof lights, Lenscrete Ltd.; lighting fittings, C.W.S. Ltd.; sanitary fittings, Doulton & Co. Ltd.; sign, Stedall & Co. Ltd.

**Old Peoples' Homes, New Zealand House, Penlee Way, Stoke, Plymouth,** for the Corporation of the City of Plymouth. (Page 732.) Architect: J. Leighton Fouracre, F.R.I.B.A., in collaboration with H. J. W. Stirling, A.R.I.B.A., City Architect. Chief Assistant: K. Scott Bingham. General contractors: Pearn Bros. Ltd. Quantity surveyors: H. S. Houghton & Partners. Clerk of works: F. W. Potter. General Foreman: L. Wheaton. Sub-contractors: metal windows & sub-frames, Henry Lawry Ltd.; sanitary fittings, The Plymouth Tile & Hardware Co. Ltd.; cast stone dressings & precast concrete pavers, F. J. Moore Ltd.; flush doors, Bryce White & Co. Ltd.; ironmongery, William Dibben & Sons Ltd.; acotile paving, The Neuchatel Asphalt Co. Ltd.; tiled fireplace surrounds, Service & Co. Ltd.; kitchen fittings, J. Wippell & Co. Ltd.; pressed metal door frames, Henry Lawry Ltd.; electrical installation, Yeldon & Gardiner; concrete reinforcement, The Square Grip Reinforcement Co. (Bristol) Ltd.; commemorative plaque, Cantell & Endacott.

**Flats at Bayswater Terrace, Pennycomequick, Plymouth.** (Page 732.) Architects: City Architect's Department, City of Plymouth. General contractors: A. N. Coles (Contractors) Ltd. Sub-contractors: Metal windows direct to masonry, pressed steel internal door frames, Standard Metal Window Co.; floors and balcony reinforcement, Square Grip Reinforcement Co. Ltd.; electrical installation, Madge & Son; kitchen units, Jennings (Bristol) Ltd.; floor tiling, Marley Tile Co. Ltd.; tile surrounds, Eagle Sutton grates and back boilers, Plymouth Tile & Hardware Co. Ltd.

**Flats at Rendle Street, Plymouth.** (Page 732.) Architects: City Architect's Department, City of Plymouth. General contractors: J. W. Spencer Ltd. Sub-contractors: Metal windows in cavity sub-frames, pressed steel internal door frames, Henry Hope & Sons Ltd.; floors, roof and balcony reinforcement, Square Grip Reinforcement Co. Ltd.; electrical installation, Southcombe & Wilcocks Ltd.; kitchen units, J. Wippell & Co.; floor tiling, Marley Tile Co. Ltd.; tile fireplaces, Eagle Sutton grates and back boilers, Plymouth Tile & Hardware Co. Ltd.; metal staircase balustrading and window boxes, Woodrow Metals Ltd.

**Ernesettle No. 1 Primary School, Plymouth.** (Page 735.) Architects: City Architect's Department, City of Plymouth. Consulting engineers for heating installations: Hoare, Lea & Partners. General contractors: Pearn Bros. Ltd. Sub-contractors: Structural steelwork, Blight & White Ltd.; heating and h.w.s. installation, Johnson & Baxter (Plymouth) Ltd.; electrical installation, Drake & Gorham (Contractors) Ltd.; stage lighting, Penrose & Son; metal windows, James Cooper &

Co. Ltd.; pressed steel staircases, cloakroom fittings, etc., Woodrow Metals; sanitary fittings, Shaw, Knight & Co. Ltd.; bituminous roofing, F. McNeill & Co. Ltd.; hardwood flooring, Horsley Smith & Co.; composition tile flooring, Semtex Ltd.; flush doors, Leaderflush Ltd.; reinforcements, The Square Grip Reinforcement Co.; precast concrete floors and roofs, Concrete Ltd.; duct covers, The Dover Engineering Works Ltd.

**Flats at Ham Drive, Plymouth.** (Page 736.) Architects: City Architect's Department, City of Plymouth. General contractors: John Garrett & Son Ltd. Sub-contractors: Metal windows, cavity sub-frames and pressed steel door frames, Henry Hope & Sons; floor and balcony reinforcement, Square Grip Reinforcement Co.; electrical installation, Southcombe & Wilcocks Ltd.; kitchen units, Jennings (Bristol) Ltd.; floor tiling, Marley Tile Co. Ltd.; Eagle Sutton grates and back boilers, pipe duct covers, Service & Co. Ltd.; tiled surrounds, Henry Ede & Sons Ltd.

**South Trelawny Primary School, Plymouth.** (Page 737.) Architects: City Architect's Department, City of Plymouth. Consulting engineers for heating installations: Hoare, Lea & Partners. General contractors: J. Garrett & Sons Ltd. Sub-contractors: Structural steelwork, Blight & White Ltd.; heating, Johnson & Baxter (Plymouth) Ltd.; electrical installation, Yeldon & Gardiner Ltd.; metal windows, John Gibbs Ltd.; pressed steel staircases, gates and railings, Woodrow Metals Ltd.; precast concrete floors, Concrete Ltd.; asbestos roof decking, The Universal Asbestos Manufacturing Co. Ltd.; asbestos spray, Turners Asbestos Co. Ltd.; sanitary fittings, Doulton & Co. Ltd.; glazed wall tiling, Carter & Co.; flooring, Semtex Ltd.; roof covering, The Ruberoid Co. Ltd.

**Four Shops, Honicknowle, Plymouth.** (Page 739.) Architects: H. J. W. Stirling, A.R.I.B.A., City Architect; F. Napp, A.R.I.B.A., A.M.T.P.I., Deputy City Architect; A. C. Harris, A.R.I.B.A.; L. H. G. Belam, A.R.I.B.A.; Principal Assistant, L. A. Wright, A.R.I.B.A., Assistant; General Contractors: Richard Costain Ltd. Sub-contractors: "Bison" floor beams, Concrete Ltd.; canopy reinforcement, The Trussed Concrete Steel Co. Ltd.; steelwork & reinforcement, Blight & White Ltd.; glass dome lights, Pilkington Bros. Ltd.; "Ruberoid" roof finishes, The Ruberoid Co. Ltd.; "Paropa" roof finishes, Frazer Ltd.; "Glascere" roof lights, J. A. King & Co. Ltd.; metal balustrading, Woodrow Metals Ltd.; metal windows, The Crittall Manufacturing Co. Ltd.; ironmongery & sanitary fittings, Henry Lawry Ltd.; terrazzo work, The South Western Flooring Co. Ltd.; shop fronts, Harris & Sons (Plymouth) Ltd.; composition flooring, Semtex Ltd.; gas installation, The South Western Gas Board; electrical installation, The South Western Electricity Board.

**Highfield Primary School, Plymouth.** (Pages 741 and 743.) Architects: City Architect's Department, City of Plymouth. Consulting engineers for heating installations: Hoare, Lea & Partners. General contractors: Pearn Bros. Ltd. Sub-contractors: Structural steelwork, Blight & White Ltd.; heating, Johnson & Baxter (Plymouth) Ltd.; electrical installation, Southcombe & Wilcocks Ltd.; windows, Henry Hope & Sons; pressed steel staircases, S. G. Day; precast concrete floors, Concrete Ltd.; asbestos roof decking, The Universal Asbestos Manufacturing Co. Ltd.; asbestos spray, Turners Asbestos Cement Co. Ltd.; terrazzo, w.c. cubicles, South Western Flooring Co. Ltd.; sanitary fittings, Doulton & Co. Ltd.; glazed wall tiling, Carter & Co.; flooring, Semtex Ltd.; roof covering, The Ruberoid Co. Ltd.

**Plym View Primary School, Plymouth.** (Page 743.) Architects: City Architect's Department, City of Plymouth. Consulting engineers for heating installations: Hoare, Lea & Partners. General contractors: Wakeham Bros. Ltd. Sub-contractors: Structural steelwork, Blight & White Ltd.; heating installation, Channon Ltd.; electrical installation, Devon Electric & General Services Ltd.; windows, Metal Casements Ltd.; pressed steel staircases, Woodrow Metals Ltd.; precast concrete floors, Concrete Ltd.; asbestos roof decking, The Universal Asbestos Manufacturing Co. Ltd.; asbestos spray, Turners Asbestos Cement Co. Ltd.; terrazzo w.c. cubicles, South Western Flooring Co. Ltd.; sanitary fittings, Doulton & Co. Ltd.; glazed wall tiling, Carter & Co.; flooring, Semtex Ltd.; roof covering, The Ruberoid Co. Ltd.

**Efford Secondary Modern School, Plymouth.** (Page 744.) Architects: City Architect's Department, City of Plymouth. Consulting engineers for heating installations: Hoare, Lea & Partners. General contractors: Staverton Builders Ltd. Sub-contractors: Structural steelwork, Blight & White Ltd.; heating and h.w.s. installation, Rooke Bros.; electrical installation, Devon Electric & General Services Ltd.; metal windows and patent glazing, The Crittall Manufacturing Co. Ltd.; precast concrete floors and roofs, Concrete Ltd.; roof coverings, The Ruberoid Co. Ltd.; flooring, Semtex Ltd.; The Granwood Flooring Co. Ltd.; and Jewsons Ltd.; stage lighting, Penrose & Son; sound equipment, General Electric Co. Ltd.; metal dust covers, The Dover Engineering Works Ltd.; sanitary fittings, Doulton & Co. Ltd. and Adamsez Ltd.

**Factory for Messrs. Tecalemit, Plymouth.** (Pages 744-745.) Architect: H. F. Walls, DIP. ARCH., A.R.I.B.A., General contractors: Tecalemit's Maintenance Section. Sub-contractors: Steelwork for production bays, The Appleby-Frodingham Steel

Co., erected by Orthostyle Ltd.; steelwork for remaining buildings, Blight & White Ltd.; patent glazing, Williams & Williams Ltd.; steel windows, Crittall Manufacturing Co. Ltd.; reinforcing fabric for suspended floors, roofs and foundations, The British Reinforced Concrete Engineering Co. Ltd.; reconstructed Ham Hill stonework and precast concrete, The Wharf Lane Concrete Co. Ltd.; heating, The Freeman Heating Co. Ltd.; lantern lights, Williams & Williams Ltd.; asbestos roof, Trafford tiles, Turner & Sons Ltd.; sanitary fittings, Gardiner, Sons & Co. Ltd.; ironmongery, Gardiner, Sons & Co. Ltd.; R.F.M. roofing, The Wolverhampton Corrugated Iron Co. Ltd.; roof lining, The Specialised Construction Co. Ltd.; rolling shutters, Mather & Platt Ltd.; glazed tiling and lavatory partitions, Shaws Glazed Brick Co. Ltd.; pressed steel gutters, Woodrow Metals Ltd.; handrails and balustrading, Woodrow Metals Ltd.; warehouse door, Esavian Ltd.; asphalt, The Limmer & Trinidad Lake Asphalt Co. Ltd.; wood block floors, Horsley Smith & Co. Ltd. and The National Flooring Co. Ltd.; sematic tiles, The Limmer & Trinidad Lake Asphalt Co. Ltd.; electrical work, Tecalemit Ltd., Electrical Department; joinery, J. Whipple & Co. Ltd. and Tecalemit Ltd.; plumbing, Tecalemit Ltd., Building Department; ventilation, Perfectair Ltd.; service lifts, Keighley Lids Ltd.; kitchen equipment, Benham & Sons Ltd.

## Announcements

The use of rubber latex and cement adhesive in the building industry was described by L. H. Griffiths in a paper read to the recent annual conference of the Society of Chemical Industry. Its ability to bond concrete, he said, had been exploited in the building industry to improve the adhesion of cement screeds to base concrete. If a new cement screed had to be put on to an old cement base, he explained, the old cement surface had to be thoroughly hacked and broken to receive the new screeding. This hacking and breaking was very costly, and in some cases was almost out of the question because of the vibration, noise, and shattering effect of preparing the concrete to receive the screed. Because rubber latex and cement adhesive itself contained cement, it bonded to the base cement quite readily, and, said Mr. Griffiths, applications were now being developed whereby the cement screed was applied over the base concrete while the cement and latex adhesive was still wet. These adhesives, he added, were also being used to fix ceramic tiles and glass to walls.

## ENQUIRY FORM

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

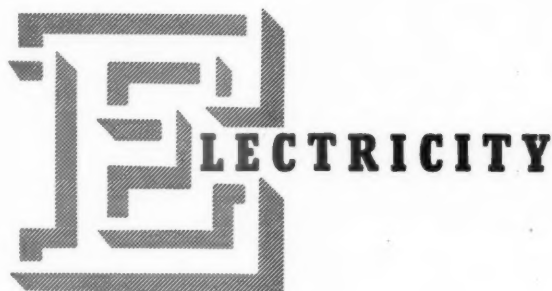
Please ask manufacturers to send further particulars to:—

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PROFESSION or TRADE .....

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*It was a good winter—  
but what of the future?*

LAST YEAR British Electricity installed a record amount of new generating plant, 1,113 MW s.o., 15.3% more than in 1950. In order that the maximum capacity would be available, the work of overhaul and maintenance, which normally is spread over nine months of the year, was substantially completed before the beginning of the winter. These efforts, together with the co-operation of industry in staggering hours, and domestic and commercial consumers in keeping demand off-peak, and the good luck of mild weather, gave us a winter almost free from power cuts.

### **But the demand for electricity continues to rise**

The rearmament programme and the export drive still further increase the need for more power. British Electricity are building 43 new power stations and extending 31 existing stations. But if power cuts are to be avoided again next winter, **Industry must not relax its fine efforts. It should plan now to make the most efficient use of power, and to cut out all forms of waste.**

**Help the country NOW—**

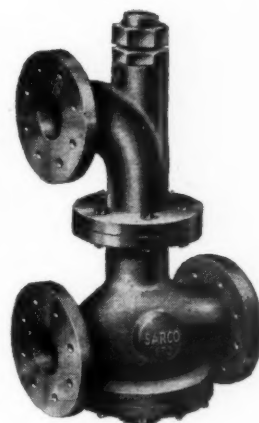
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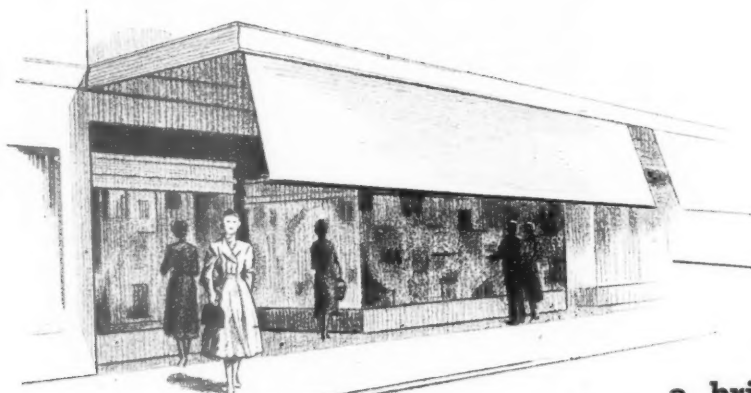
Architects:  
Jackson and Greenen.

W.P.O. 60

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- Norwich Union House
- Pearl Assurance House

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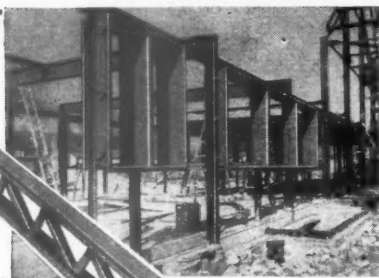


By Appointment  
Blindmakers  
to the Late King George VI.

The blinds on Norwich Union House and Pearl Assurance House are not only helping to restore Plymouth to its normal bright and cheerful self; they form an integral and necessary part of the attractive architectural design of these two new properties. These blinds have been supplied and fitted by The Artistic Blind Co. Ltd., and are representative of the wide range of blinds manufactured by that company.

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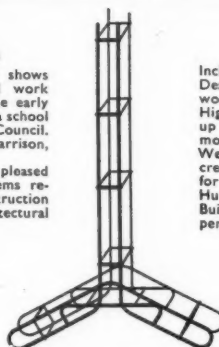
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**Sommerfelds Joists**  
'650' Joists replace timber and allow you to use your 1-6 standards of floor space per 1,000 square feet of floor space for wooden floors. NO WASTE—NO SITE LABOUR—NO WARPING—NO ROTTING. They are straight and do not squeak. Available in lengths up to 14ft. 6in. for floors of 36 lb. square foot loading. Overall depth 6½in. Other joists available for different spans and loadings.

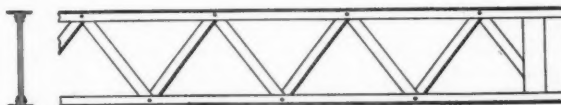
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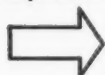
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## Points of Importance

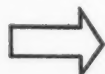
It is vitally important that openings through which fire can pass from one part of a building to another should be defended by

### DREADNOUGHT FIREPROOF DOORS

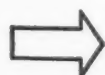
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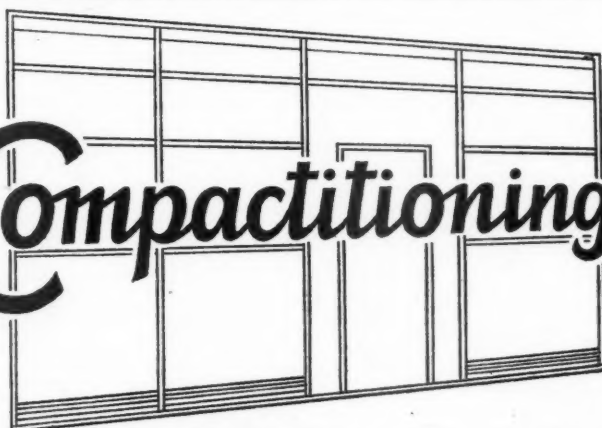
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THE ARCHITECTS' JOURNAL for June 12, 1952

**SMALL SPACE PLANNING.** In the building illustrated, the Architects, (Messrs. Alfred J. Taylor and Partners, F.R.I.B.A.) had to adapt a mediæval castle at Newton St. Loe, Somerset, as a Library for the Teachers Training College, Bath. The Building is scheduled as an Ancient Monument, so that no large scale alterations could be made. HAMMERS successfully and economically built and installed the bookcases, using the original spiral staircase. An excellent instance of HAMMERS co-operation with the Architect



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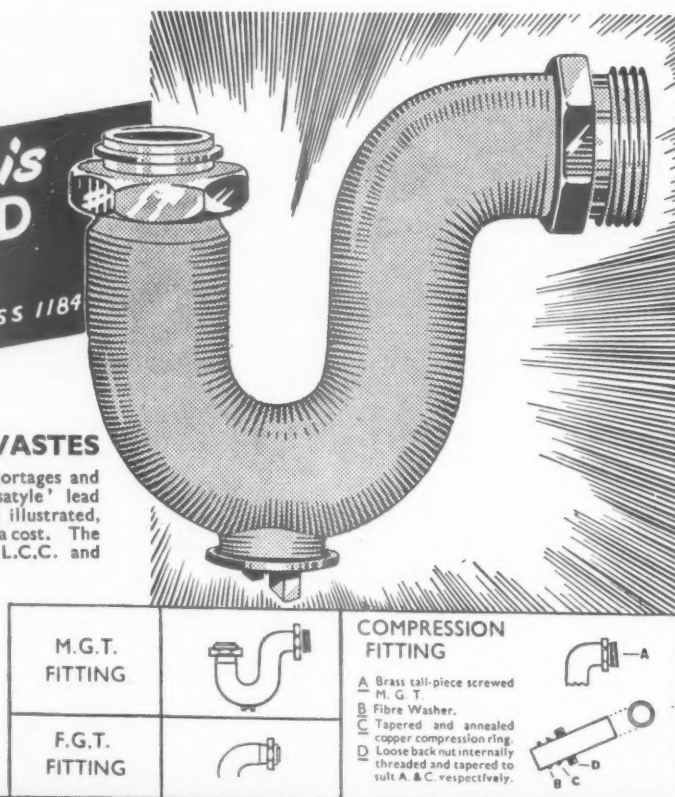
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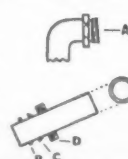


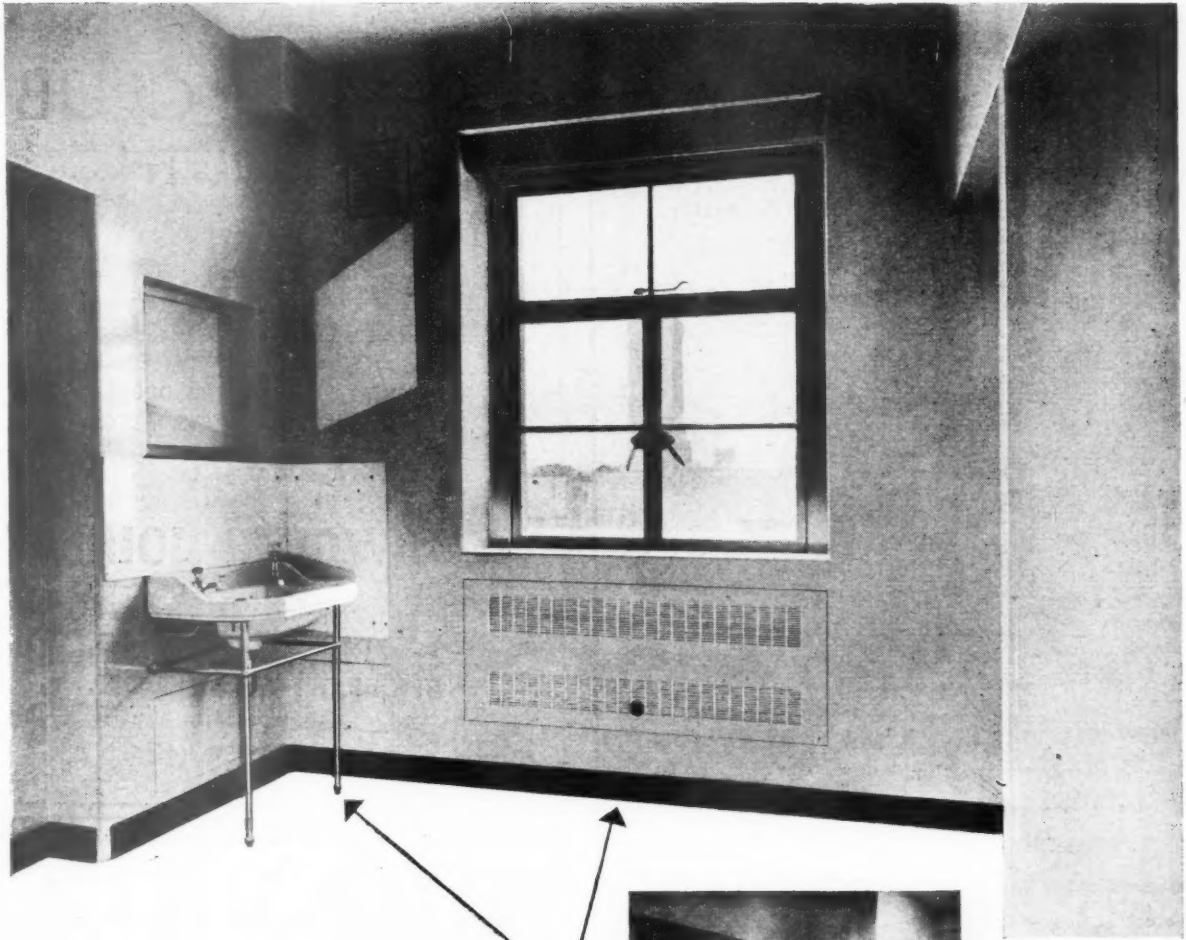
F.G.T.  
FITTING



COMPRESSION  
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M.G.T.  
B Fibre Washer.  
C Tapered and annealed  
copper compression ring.  
D Loose back nut internally  
threaded and tapered to  
suit A & C respectively.





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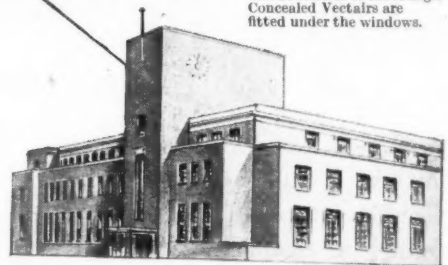
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Typical bedroom. The British Trane Vectair unit concealed under the window can be seen. All bedrooms are equipped in this way.

View of the range of bathrooms and toilets on the 2nd Floor, also showing the Vectair unit.

The South side of the lounge. Concealed Vectairs are fitted under the windows.



View of the North West corner of the new NAAFI Club at Plymouth.

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P1550

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Architects  
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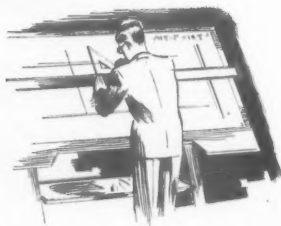
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F. MILTON-CASHMORE, F.R.I.B.A.  
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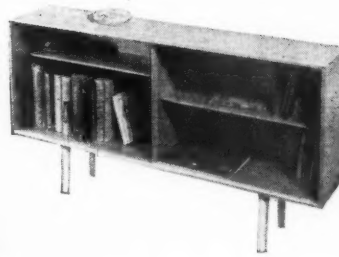
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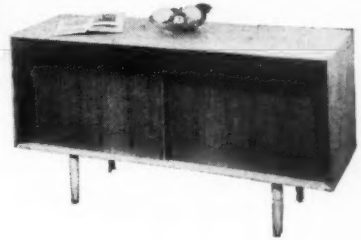
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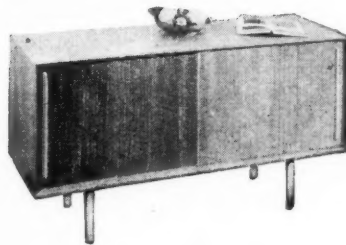
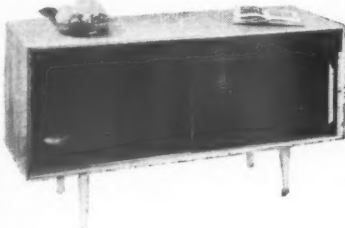
Exterior drawers elm veneered doors



# Hilleplan

## cabinets

Exterior drawers black Vitrolite doors



Interior drawers cherry veneered doors

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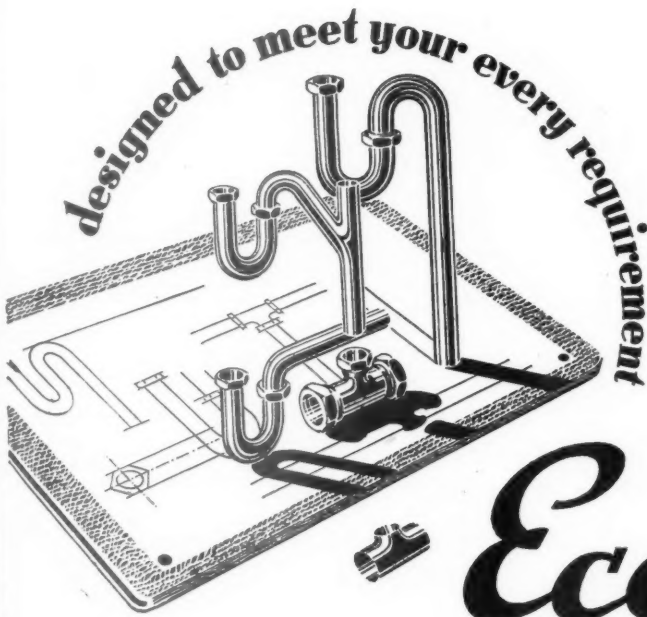
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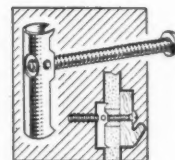
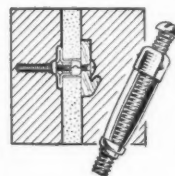
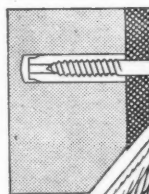
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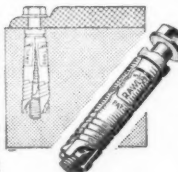
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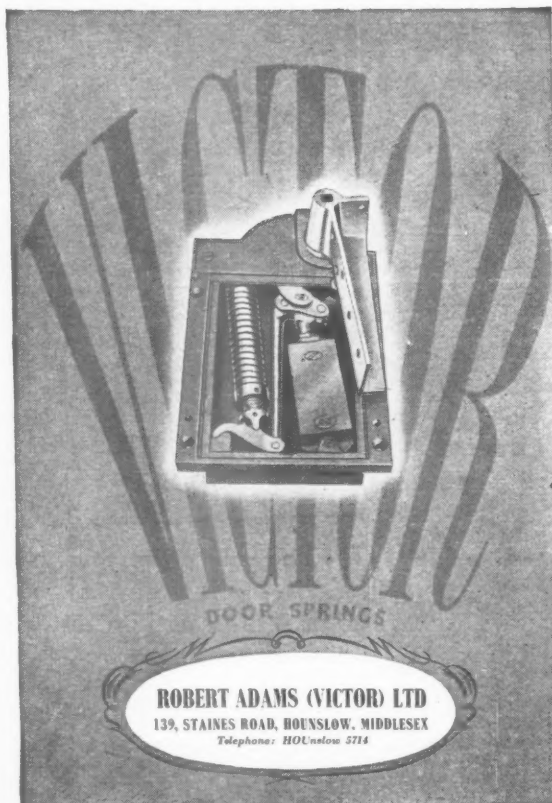
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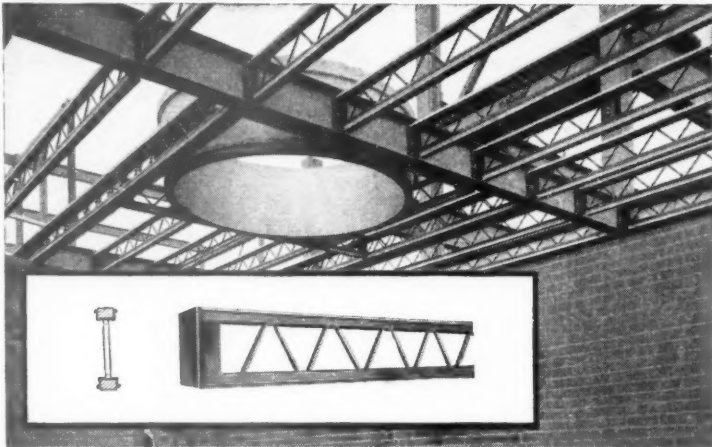
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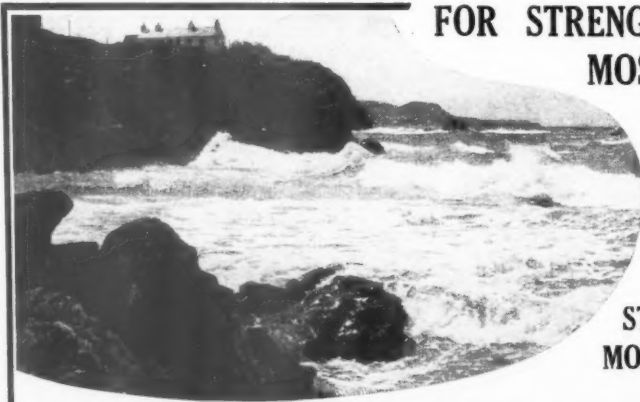
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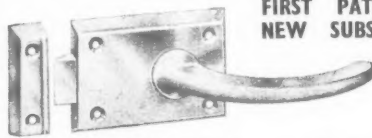


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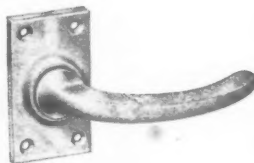
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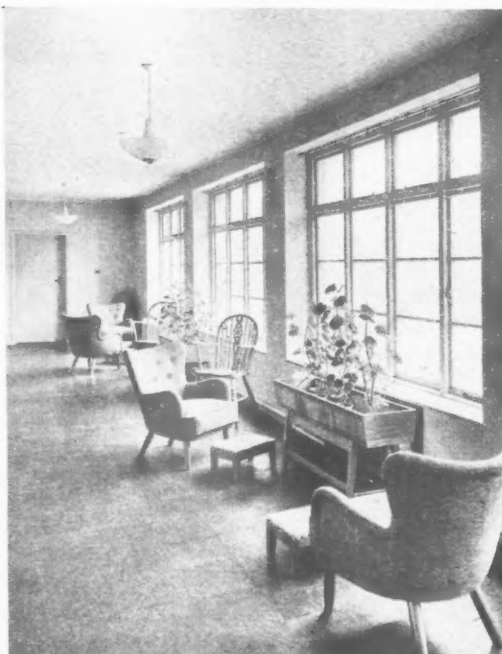
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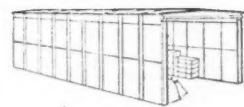
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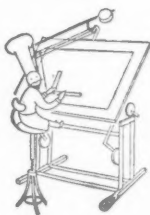
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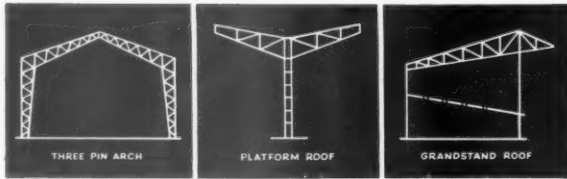
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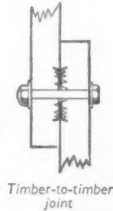
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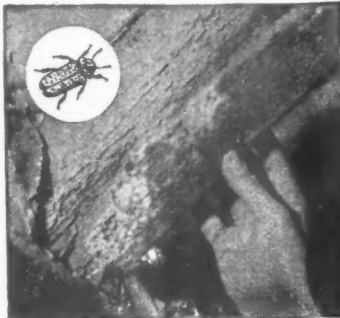
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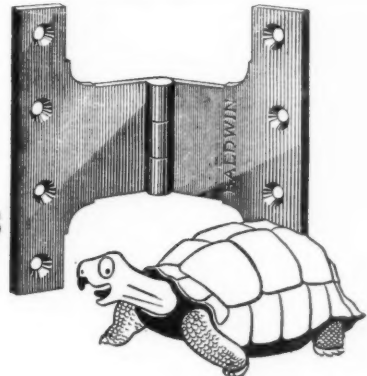
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6910

## CORPORATION OF GLASGOW

## ASSISTANT ARCHITECTS

## ASSISTANT CIVIL ENGINEERS

## ASSISTANT QUANTITY SURVEYORS

Vacancies for the above technical personnel exist on the Housing Department permanent staff at salaries in accordance with National Scales A.P.T. II-APT. VIII (£490-£840). Applications are invited from suitably qualified persons who have had experience in any of the following branches:

- Design and construction of housing developments;
- Surveying and contouring of land;
- Design and construction of roads and sewers; and
- Preparation of schedules and final measurements.

The commencing salary will be at a point within the above scales, adjusted in accordance with the age, experience and qualifications of selected candidates. Notwithstanding the point of entry, it will be possible at certain stages to qualify for an acceleration of increment.

Appointments will be subject to the provisions of the Corporation Superannuation Scheme and to the passing of a medical examination, and will be terminable by one month's notice on either side.

Applications, stating age, full particulars of experience and qualifications, accompanied by not more than three testimonials, together with the names and addresses of two referees, should be addressed to the undersigned within fourteen days of the publication of this advertisement.

A. G. JURY,

City Architect and Planning

Officer, Director of Housing.

20, Trongate, Glasgow, C.1.

6914

HEMEL HEMPSTEAD DEVELOPMENT  
CORPORATION

## CHIEF ARCHITECT'S DEPARTMENT

Applications invited for appointment of Clerk of Works for Chief Architect's Department. Salary £520 by £20 to £660. Post offers considerable scope to those experienced in supervision of housing contracts. Commercial or industrial experience also desirable.

Conditions of service are broadly similar to Local Government Officers' Charter. Contributory superannuation, with opportunity of entering or retiring in Local Government Superannuation Fund.

Housing accommodation available, if necessary. Applications, endorsed C.W.A. giving full particulars of age, qualifications and experience and names of two persons to whom reference may be made, should reach undersigned not later than 27 June.

W. O. HART,

General Manager.

Westbrook Hay,

Hemel Hempstead, Herts.

6915

## HARLOW DEVELOPMENT CORPORATION

Applications are invited for the following posts in the Architect Planner's Department (Frederick Gibberd, F.R.I.B.A., M.T.P.I.) to work under the direction of the Executive Architect (Victor Hammett, B.Sc., A.R.I.B.A., A.M.T.P.I., A.R.I.C.S.)

(a) One Architect Grade III (£812 10s. by £52 10s. to £1,075). Applicants must have had considerable experience in contemporary design, be capable of controlling a section and have had extensive administrative experience in the control of large scale contracts.

(b) One Assistant Architect Grade IV (b) (£700 by £25 to £800). Applicants must have had considerable experience on public buildings and be experienced designers.

(c) Two Assistant Architects Grade IV (a) (£600 by £55 to £700). Applicants must have had experience on large scale housing contracts and the preparation of working drawings and supervision of building contracts.

(d) Four Junior Assistant Architects Grade V (b) (£500 by £25 to £600). Applicants must have had experience in the preparation of working drawings for large scale housing contracts. In one vacancy preference will be given to candidates who have had *inter alia* experience in the preparation of designs for exhibition purposes.

Applicants for appointments (a) (b) and (c) should possess a minimum qualification of A.R.I.B.A., or equivalent. Applicants for appointment (d) should have attained A.R.I.B.A., intermediate examination standard.

All appointments will be made under the terms of the Corporation's Conditions of Service which are similar to those of Professional and Technical grades of the Local Authorities' Staffs and will, in particular, involve a contribution to an approved Superannuation Fund. Housing accommodation may be made available in due course to the successful candidates.

Applications giving full details of experience and qualifications, together with the names of two referees, should be addressed to the undersigned to reach him not later than 26th June, 1952, showing clearly the position for which the candidate wishes to be considered.

W. ERIC ADAMS,

General Manager.

"Terlings," Gilston,

Harlow, Essex.

6911

## SOUTH EASTERN ELECTRICITY BOARD

## GENERAL ARCHITECTURAL AND

## SURVEYING ASSISTANT—Mid-Sussex Sub-Area

Salary £560 by £20-£620, Grade 4 Superannuable.

Candidates must be competent draughtsmen with considerable experience in the surveying of lands and buildings, buildings design and the construction and maintenance of buildings by contract and direct labour. Preference given to qualified applicants.

Applications, giving 2 referees, must reach H. Pryce-Jones, Esq., M.Inst.C.E., Mid-Sussex Manager, SEEB-Board, Mid-Sussex House, North Road, Brighton, by 18th June, 1952.

A. L. BURNELL,

May, 1952.

6912

## CITY AND COUNTY OF

## NEWCASTLE-UPON-TYNE

## CITY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of TWO ASSISTANT QUANTITY SURVEYORS in Grade V of the A.P.T. Division (£570-£620) in the Quantity Surveyor's Section of the City Architect's Department.

Applicants must have had experience in the preparation of Bills of Quantities, Specifications, Estimates and the settlement of Final Accounts on all kinds of building contracts.

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

Applications, stating age and giving particulars of training, qualifications, experience, present and past appointments, together with copies of two recent testimonials or the names and addresses of two persons to whom reference may be made, should be addressed to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1, not later than 30th June, 1952.

JOHN ATKINSON,

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.

7th June, 1952.

6958

LONDON ELECTRICITY BOARD  
SENIOR DRAUGHTSMAN

Applications are invited for the above position in the Design and Planning Branch of the Northern Sub-Area, at Aldersgate Street, E.C.1.

Applicants should have had training and experience in building construction and the design of steelwork and reinforced concrete structures, and be capable of preparing drawings and making calculations for the alteration of existing premises and the conversion of basements into sub-stations and transformer chambers. Experience in the layout of electrical equipment up to 11 kV, whilst not essential, would be an advantage.

The post is graded under Schedule "D" of the National Joint Board agreement as Senior Draughtsman, Grade 5—£574 7s. 6d. to £683 11s. 6d. per annum, inclusive of London Allowance.

Application forms obtainable from Establishments Officer, 46, New Bond Street, E.C.2, to be returned completed by 17th June, 1952. Please enclose addressed foolscap envelope and quote ref.: V 1458/A on all correspondence.

6924

## COUNTY BOROUGH OF GATESHEAD

## ARCHITECT'S DEPARTMENT

Applications are invited for the following appointment:—

ASSISTANT ARCHITECT, Grade A.P.T. VI

(£645-£710)

Applicants should be Registered Architects and/or Associates of the R.I.B.A. and should have had experience in the design and construction of Public Buildings, Schools and/or Municipal Housing Schemes.

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

Applications on forms obtainable from the Chief Architect, H. J. Cook, A.R.I.B.A., M.I.Struct.E., Municipal Buildings, Swinburne Street, Gateshead, 8, should be returned to him by Monday, 23rd June, 1952.

J. W. PORTER,

Town Clerk.

Town Hall, Gateshead, 8.

31.5.52.

6921

## BOROUGH OF LUTON

## ARCHITECTURAL ASSISTANT

required in Borough Engineer's Department (A.P.T. Grade VII, £685/£760 per annum). Applicants should be A.R.I.B.A., and have extensive Municipal experience. N.J.C. service conditions; post pensionable; medical examination; house available. Apply giving age, full particulars and two referees to Borough Engineer, Town Hall, Luton, by Tuesday, 24th June, 1952.

W. H. ROBINSON,

Town Clerk.

6922

## BOROUGH OF OSSETT

## APPOINTMENT OF ARCHITECTURAL

## ASSISTANT

Applications are invited for the above permanent appointment in the Borough Surveyor's Department at a salary in accordance with A.P.T. Grade VI (£645-£710 per annum).

Candidates should hold a recognized architectural qualification and should have had experience in housing work with a Local Authority.

The appointment will be subject to the National Superannuation Act, 1937, one month's notice on either side and the passing of a medical examination. Housing accommodation will be made available to the successful candidate if required.

Applications in envelopes endorsed "Architectural Assistant," giving details of age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, are to be addressed and delivered to the undersigned not later than Monday, the 23rd June, 1952.

Candidates must declare their relationship, if any, with any member or senior official of the Council.

Canvassing in any form will disqualify.

B. FREEMAN,

Town Clerk.

Town Hall, Ossett.

31st May, 1952.

6939

## LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT requires leader to take charge of specialist section dealing with furniture design, colour schemes, exhibition work, etc., A.R.I.B.A., or specialist qualifications. Salary £837 10s.—£1,002. Form and particulars from Architect, (quote EK/PD/3), County Hall, S.E.1. Closing date 12th July, 1952. (591.)

6947

## BOROUGH OF SLOUGH

## ASSISTANT ARCHITECT, Grade A.P.T. VI.

For further particulars apply Borough Engineer, Town Hall, Slough, Bucks. Tel.: Slough 23881.

6949

PADDINGTON M.B.C. require QUANTITY SURVEYOR'S ASSISTANT (A.P.T. II) (£500 by £15-£545 p.a. £10 less if under 25). Experience in preparation of estimates, working up, abstracting, billing, site measurement and working up to final account stage. Preference to holders of, or at standard of, Inter-R.I.C.S. (Quantities Sub-Division). N.J.C. conditions. State age, qualifications, present and past appointments and names of three referees. Write Town Clerk (A.73) Paddington, W.2, by 19th June, 1952.

6948

# WIGAN EDUCATION COMMITTEE APPOINTMENT OF TEMPORARY CLERK OF WORKS

Applications are invited for the appointment of CLERK OF WORKS (TEMPORARY) at a salary of £10 per week, in connection with the erection of educational buildings.

Applicants must have a thorough knowledge of the Building Trade, including experience with pre-fabricated buildings. They must be conversant with plans, specifications and Bills of Materials, and be competent to set out work, give levels and keep all necessary records and progress reports.

Application forms and further details regarding this appointment and conditions of service can be obtained from the undersigned.

Completed applications must be received not later than the 21st June, 1952.

REESE EDWARDS,

Director of Education.

Education Office,  
Town Hall, Wigan.  
2nd June, 1952.

6923

# CITY OF NOTTINGHAM EDUCATION COMMITTEE

Principal: ALFRED H. RODWAY, A.R.C.A., F.R.S.A.  
DEPARTMENT OF TOWN AND COUNTRY PLANNING

Lecturer-in-Charge: D. S. KILNER, DIP.L.T.P. (LEEDS), A.R.I.B.A., M.T.P.I.

Applications are invited for the full-time post of STUDIO MASTER in the Department of Town and Country Planning, which is recognized for exemption from the Final Examination of the Town Planning Institute. Duties to commence on 1st September, 1952, or nearest date possible thereafter. Candidates should be corporate members of the Town Planning Institute and should, preferably, hold the degree or diploma of a Recognized School.

Salary: Burnham Report, 1951, Grade B, i.e. £450 by £25-£725, together with allowances, if appropriate, in respect of graduation, training, previous full-time teaching, and for approved professional experience, and war service.

Further particulars and application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom the latter should be returned within 10 days of the publication of this advertisement.

F. STEPHENSON,

Director of Education.

Education Office,  
South Parade, Nottingham.  
R/SC  
30th May, 1952.

6933

# COUNTY BOROUGH OF BOURNEMOUTH BOROUGH ARCHITECT'S DEPARTMENT

APPLICATIONS are invited for the following appointment:—  
SENIOR ASSISTANT ARCHITECT (Section Head). Established Post. Salary Grade A.P.T. VII. £665-£760 per annum. Applicants must be members of the R.I.B.A. and experienced in various types of general municipal building work.

The successful candidate will be appointed at his present salary if such salary is within the incremental scale of the advertised post.

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

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

No assistance can be offered regarding housing accommodation.

Applications, on forms to be obtained from the Borough Architect, Town Hall, Bournemouth, accompanied by copies of three recent testimonials, to be returned to the undersigned in envelopes endorsed "Staff Architectural," not later than 10 a.m. Saturday, 28th June, 1952.

A. LINDSAY CLEGG,

Town Clerk.

6935

# BRITISH ELECTRICITY AUTHORITY EASTERN DIVISION

Applications are invited for the following Superannuable positions in the Generation (Construction) Department at Divisional Headquarters. Salaries and conditions of service will be in accordance with the National Joint Board Agreement.

(a) SENIOR DRAUGHTSMAN

(ARCHITECTURAL)

(b) SENIOR DRAUGHTSMAN

(STRUCTURAL)

The commencing salaries (which include London Weighting) will depend upon experience and qualifications but will be within the following range:—

Grades 4-5, £574-£792 per annum.

Applicants should have had experience in one of the following:—

(a) Design and alteration of Industrial Buildings.

(b) Design of structural steel work and reinforced concrete structures.

Applications stating age, qualifications and experience should be sent to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14, by 21st June, 1952.

W. N. C. CLINCH,

Controller.

6940

# EASTERN ELECTRICITY BOARD

Applications are invited for the following appointments:—

CHILTERN SUB-AREA Headquarters — Bedford. 23/52 R.

CIVIL ENGINEERING AND BUILDINGS—

SECOND ASSISTANT ENGINEER

Subject to guidance from the Board's Architect at Wethered, Ipswich, in the design of important works, the successful candidate will be in charge of the design, construction and maintenance of all buildings and civil engineering works, including substations, offices, service centres, stores and workshops. He will be required to supervise the execution of works under contract and to assist in the acquisition of land, including licensing and planning negotiations.

The salary will be in accordance with Class K, Grade 7 of the National Joint Board Salary Agreement, commencing at £844 p.a.

Apply to the Manager, Chilterns Sub-Area, Eastern Electricity Board, Prebend Street, Bedford.

NORTHMET SUB-AREA Headquarters, Southgate, London, N.14. 24/52 R.

TWO ENGINEERING DRAUGHTSMEN (Ref. 348)

Candidates should have had the requisite training and experience to enable them to prepare plans and detailed drawings of building and civil engineering works for substations, service centres, workshops and offices.

The salaries will be in accordance with Grade 6, Schedule D, of the National Joint Board Salary Agreement, within a range of £438-£574 p.a., inclusive of London Allowance.

Apply to the Manager, Northmet Sub-Area, Eastern Electricity Board, Cannon Hill, Southgate, London, N.14.

Future salaries and conditions of service for the above appointments will be in accordance with agreements made from time to time by the appropriate negotiating bodies.

The successful candidates will be required to contribute to a superannuation scheme and may be required to undergo a medical examination.

Applications stating age, education, qualifications and experience with details of present appointment and salary should be submitted to the Manager concerned, within fourteen days of the appearance of this advertisement.

6934

# COUNTY COUNCIL OF NORTHUMBERLAND COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for post of ASSISTANT ARCHITECT, A.P.T. Grade VI on the permanent staff of the Department.

Candidates should preferably have had experience of housing.

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

Application stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect, County Hall, Newcastle-upon-Tyne, within ten days of the date of this advertisement.

6936

# METROPOLITAN BOROUGH OF SHOREDITCH

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. V.

Subject to medical examination, Council's Superannuation Scheme and N.J.C. Conditions. Applications, latest 25th June, 1952, with copies of three recent testimonials.

C. A. JAMES,

Town Clerk.

Town Hall, Old Street, E.C.1.

June, 1952.

6938

# COUNTY BOROUGH OF CARLISLE CITY ENGINEER'S DEPARTMENT

Applications are invited for the appointment of a CHIEF ASSISTANT ARCHITECT (General Work). Salary A.P.T. Grade VIII (£735-£810). Applicants must be members of the Royal Institute of British Architects. Housing accommodation is available if required.

Forms of application and conditions of employment may be obtained from the City Engineer, 18, Fisher Street, Carlisle, to whom applications should be returned not later than Friday, 27th June, 1952.

H. D. A. ROBERTSON,

Town Clerk.

Town Clerk's Office,

15, Fisher Street, Carlisle.

6962

# METROPOLITAN BOROUGH OF STEPNEY SIDNEY STREET HOUSING SCHEME

KITCHEN FITMENTS, Blocks 1, 12, 14, 15 and 16. Tenders are invited for the supply, delivery, general setting out and fixing of Kitchen Fitments to flats, all to Architects specification and drawings.

Forms of Tender with Conditions, etc., obtainable from Messrs. Sydney Clough, Son & Partners, F.A.R.I.B.A., Chartered Architects, Devonshire Close, 39, Devonshire Street, London, W.1., upon payment of deposit of two guineas.

Closing date for receipt of tenders will be 28th June, 1952.

J. E. ARNOLD JAMES,

Town Clerk.

11th June, 1952.

6956

# CITY OF CAMBRIDGE CITY ENGINEER AND SURVEYOR'S DEPARTMENT

APPOINTMENT OF SENIOR ASSISTANT ARCHITECTS (HOUSING)

Applications are invited for the appointment of TWO SENIOR ASSISTANT ARCHITECTS (Housing) in the City Surveyor's Department at a salary in accordance with A.P.T. Grade VI (£645 by £225-£710).

Applicants must have had good experience of Local authority housing work, including design and construction of flats, and be able to administer large contracts from their inception. Preference will be given to members of the R.I.B.A.

Housing accommodation will be made available to the successful married applicants if required.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to satisfactory medical examinations, and will be terminable by one month's notice on either side.

Forms of application may be obtained from the City Surveyor, The Guildhall, Cambridge, and must be returned to him not later than Wednesday, 25th June, 1952.

ALAN H. I. SWIFT,

Town Clerk.

The Guildhall, Cambridge.

June, 1952.

6961

# LEWISHAM METROPOLITAN BOROUGH COUNCIL

CLERK OF WORKS required, on the Council's temporary staff, to supervise the erection of houses and flats. Experience of supervision of large building work essential. Salary scale £530-£575, per annum plus £30 London "Weighting." (A.P.T. Grade IV.)

The appointment will be subject to the Rules and Regulations of the Council from time to time in force relating to temporary officers, to termination by one month's notice on either side, and to the successful candidate passing satisfactorily a medical examination.

The person appointed will be required to devote his whole time to the duties of the post.

Applications in writing, stating age, qualifications and experience should be addressed to the Borough Architect, Council Offices, Canadian Avenue, Catford, S.E.6. Closing date for applications Saturday 21st June, 1952.

Canvassing either directly or indirectly will be a disqualification.

6962

# UNIVERSITY OF SYDNEY AUSTRALIA

The Senate will shortly proceed to the appointment to the CHAIR OF ARCHITECTURAL SCIENCE, which is a replacement for the Chair of Architectural Practice and Construction rendered vacant by the retirement of Professor A. S. Hook.

Salary will be at the rate of £2,000 (Australian) per annum, plus cost of living adjustment (at present £200 (Australian) per annum). There is a normal retirement provision on the lines of the Federated Superannuation System for Universities and, in addition, a pension of not less than £400 (Australian) per annum upon retirement after the age of 60 years.

The Senate reserves the right to fill the Chair by invitation.

Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 5, Gordon Square, London, W.C.1.

The closing date for the receipt of applications is 11th August, 1952.

6955

# CITY OF PLYMOUTH CITY ARCHITECT'S DEPARTMENT

CHIEF QUANTITY SURVEYOR—GRADE APT. IX (£790 to £910)

Applications are invited for the above appointment on the established staff, which is subject to the Local Government Superannuation Act, 1937, the National Joint Council's Scheme of Conditions of Service, a satisfactory medical examination and two month notice on either side for termination. Applicants should be members of the Royal Institution of Chartered Surveyors (Quantity Surveyors).

Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be received at my office not later than Friday, 27th June, 1952.

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

H. J. W. STIRLING, A.R.I.B.A.,

City Architect

Seymour Road, Plymouth.

6957

# LONDON COUNTY COUNCIL ARCHITECTS' DEPARTMENT

VACANCIES FOR ARCHITECT GRADE I (£1,002-£1,143), GRADE III (£650-£837 10s.) for inspection of buildings of historic and architectural interest and supervising maintenance and repairs. A.R.I.B.A. essential with knowledge of period architecture and restoration work. Application form and details from Architect (quote EK/MH/5) County Hall, S.E.1, to be returned by 12th July, (610.)

6960

**LONDON COUNTY COUNCIL**  
TWO GRADE III VACANCIES (£660-£837 10s.). Inspections, specifications and estimates for repairs to Voluntary Schools. A.R.I.C.S. essential. Application form from Architect (quote EK/V8/2) County Hall, S.E.1. (s.a.e.) (611) 6959

**LONDON COUNTY COUNCIL**  
**ARCHITECT'S DEPARTMENT**  
ARCHITECTS required for construction programme, Housing and General Divisions. A.R.I.B.A. essential (salaries up to £696). Application forms and particulars from the Architect (quote EK/HG/3), County Hall, S.E.1. (545) 6881

### Tenders for Contracts

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

#### URBAN DISTRICT COUNCIL OF NORTHFLEET

##### TENDER FOR 18 HOUSES

Tenders are invited for the erection of eighteen houses—traditional brick construction—at Hall Road, Northfleet.

The Conditions of Contract will be those of the R.I.B.A. (Revised 1950), which can be seen at the Council Offices, Northfleet, at any time during normal office hours.

Bills of Quantities and Form of Tender can be obtained from the Engineer and Surveyor at the address below on and after June 9th on payment of a deposit of two guineas, which will be returned on receipt of a bona-fide tender which is not subsequently withdrawn.

Tenders, in plain sealed envelopes, endorsed "Tenders for Houses," and bearing no name or mark indicating the sender, must reach the undersigned not later than 12 noon on Thursday, June 26th, 1952. The priced Bill of Quantities should be enclosed in a separate sealed envelope.

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

W. G. FUTCHER,

Clerk of the Council.

Council Offices, Northfleet, Kent. 6937  
June, 1952.

### Architectural Appointments Vacant

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**W. DOBSON CHAPMAN & PARTNERS**  
Macclesfield Office, 8, Jordangate, require JUNIOR STAFF with office experience capable working drawings. Salary £350-£450 per annum. Excellent working conditions and prospects. Telephone: Macclesfield 2278. 6951

**VACANCIES** in London Architects' office for experienced Assistants of Intermediate standard at least. Knowledge of surveying an advantage. Salary by arrangement. Box 6950.

**TEMPORARY ARCHITECTURAL ASSISTANT** required immediately. Salary £500-£600 per annum according to training and experience. About two years' office experience essential. Write, briefly stating age, experience, etc., to: Elie Mayoreas, F.R.I.B.A., 13, Davis Mews, Baker Street, W.1. 6946

**ARCHITECTURAL ASSISTANT**, About Intermediate Standard. Competent Draughtsman: Sketch Schemes, Working Drawings, Surveys including Site works. Congenial type only, appreciative of contemporary idiom. House provided by Brewery Company, East Midlands. Sports facilities and Superannuation. State experience and salary required. Box 6920.

**ARCHITECTURAL ASSISTANTS** required urgently by Geo. Wimpey & Co. Ltd., at Head Office in Hammersmith. Experience in Housing work in U.K. or overseas an advantage. Salary according to experience. Apply, giving brief details of experience, to the Staff Architect, Geo. Wimpey & Co. Ltd., 27, Hammersmith Grove, London, W.6. 6918

**ARCHITECTURAL ASSISTANT** urgently required for London practice doing varied work. Intermediate—Final Standard. Office experience desirable. Box 6916.

**TWO CAPABLE JUNIOR ASSISTANTS** required with at least three years office experience. Write full particulars including salary required and when free to R. H. Gallannaugh, 12, Grafton Street, W.1. 6928

**LONDON ARCHITECTS** require Assistant. Intermediate Standard. Apply giving full particulars to Box 6927.

**ARCHITECT'S ASSISTANT**, male or female, required immediately in small busy office. Housing and General Practice. State age, experience and salary required. E. John Evans, 66, High Street, Walton-on-Thames. Tel.: Walton-on-Thames 2135. 6963

### Architectural Appointments Wanted

**ARCHITECTURAL DRAUGHTSMAN** experienced housing, etc., seeks situation in London. Box 471.

**A.R.I.B.A.**, age 40, requires employment in the London area. Practically experienced for a position of responsibility and able to deal with problems of modern legislation. Box 472.

**ASSISTANT**, Dip. Arch. (Glas.), total of 14 months' office experience, requires post in Surrey or London area. Box 473.

**WOMAN**, A.R.C.A., working Inter., needs post London. Some experience leading Architect's office, Birmingham. Keen learner. Typing, etc., return practical experience architecture. £4. Box 6952.

**ARCHITECTURAL ASSISTANT**, A.R.I.B.A. (28), with 3 years' experience, requires responsible situation, small progressive London office. Box 470.

**AUSTRALIAN WOMAN**, B.A.R.C., A.R.A.I.A., 32, seeks position, preferably Southern England. Office experience 5 years mostly on flats, housing. Can also assist with typing, driving. Box 467.

**SENIOR ARCHITECTURAL ASSISTANT** (28). Preparing for final, 12 years' experience, all aspects of profession. Surveys including levelling, plans, details, perspectives, contemporary design, diploma in Specifications, Estimates, Quantities and Accounts. Experience includes all types of offices, licences and consents. Present salary £620 per annum. Box 468.

**ARCHITECTURAL ASSISTANT** seeks a post in London, S.E. preferred. 5 years' office experience of a varied nature including field work, levelling etc. Contemporary outlook. Salary by arrangement. Box 469.

**SENIOR ASSISTANT ARCHITECT**, Registered (42), desires permanent post where sound training, ability, and a lifetime's experience of all classes of work, particularly industrial, count for more than eligibility for pension scheme. Sketch plans to final account on own initiative, including surveys, levels, specifications, quantities, R.C. and structural steel design and detailing, and control of staff. Box 6954

### Other Appointments Vacant

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**QUANTITY SURVEYOR** required, capable of Site measurements, abstracting, preparing final accounts with Contractors for large industrial projects. Reply: stating age, experience and salary required etc., to Personnel Manager, Tube Investments (Group Services) Limited, Rocky Lane, Aston, Birmingham, 6. 6926

**SALES REPRESENTATIVE**, with good experience and references, required to organise sales department of large works specialising in high-class joinery and mass produced flush doors in South of England. Must have introductions to architects and public works contractors, etc. Only persons capable of earning high remuneration need apply. Write, with particulars, to Richard Coates & Co., 245, Oxford Street, W.1. 6903

**DRAUGHTSMAN**: with a special aptitude for preparing accurate fine line ink drawings for reproduction, required immediately for organization specializing in the production of technical catalogues and other publicity matter for the building and allied industries. Please give brief details of experience and salary required to Box 6919.

## PEARL ASSURANCE HOUSE PLYMOUTH

The

BRONZE WINDOWS  
STEEL BALUSTRADING  
and  
ANODISED ALUMINIUM  
HANDRAIL

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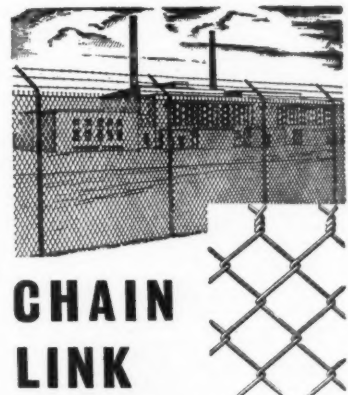
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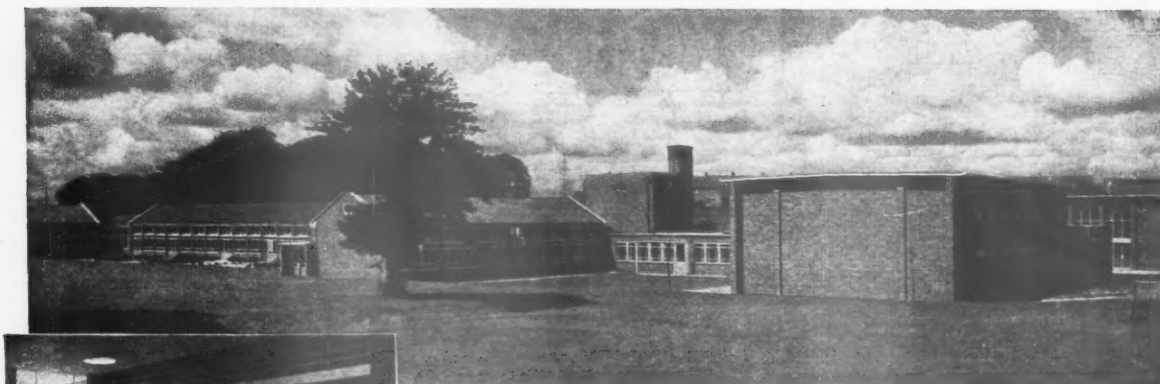
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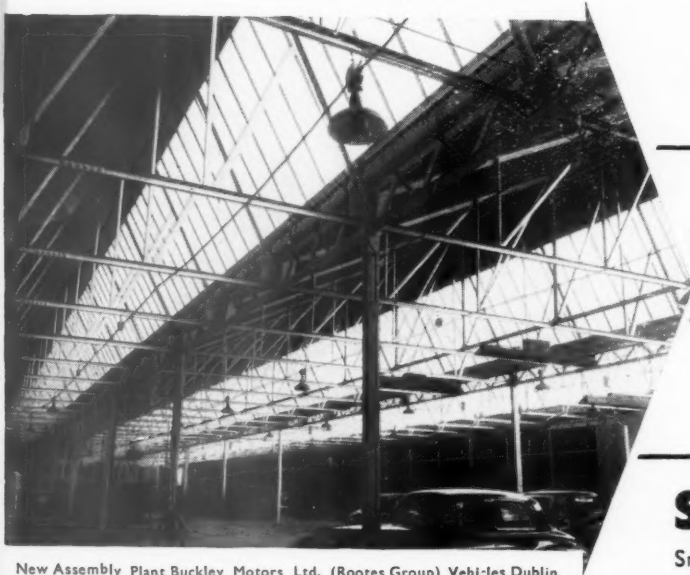
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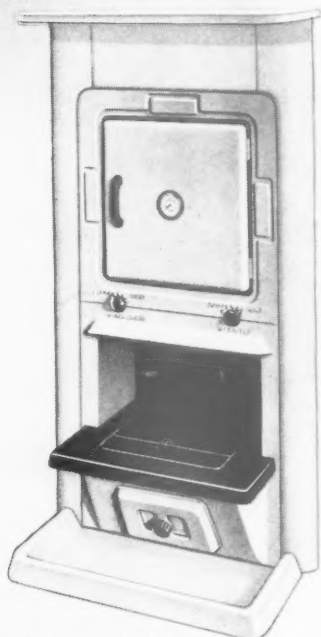
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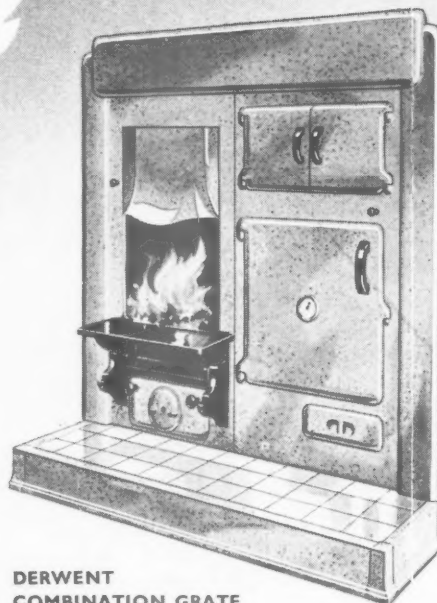
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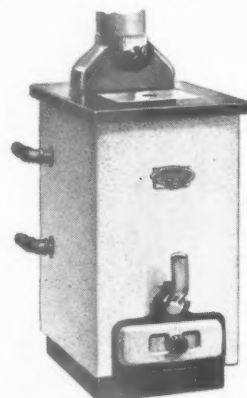
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