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contents

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

and COMMENT VEWS

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TECHNICAL SECTION

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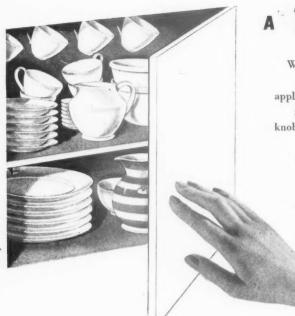
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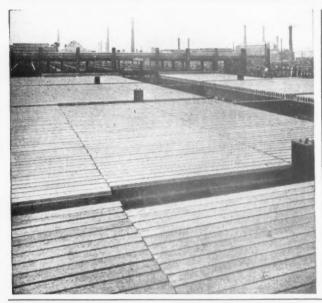


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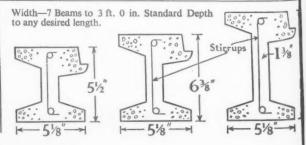
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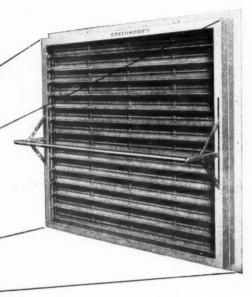
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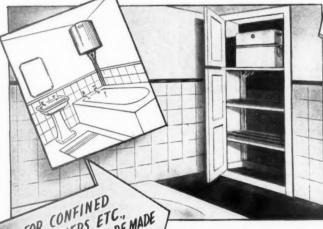
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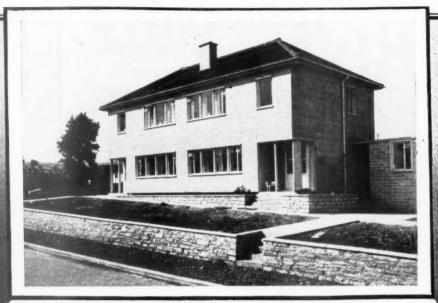
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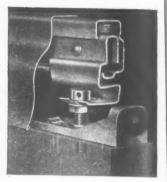
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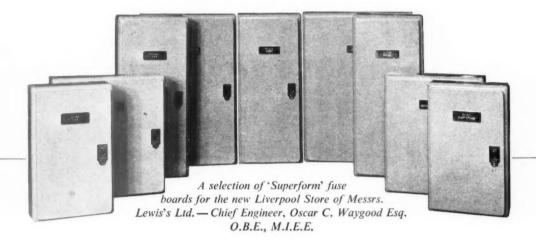
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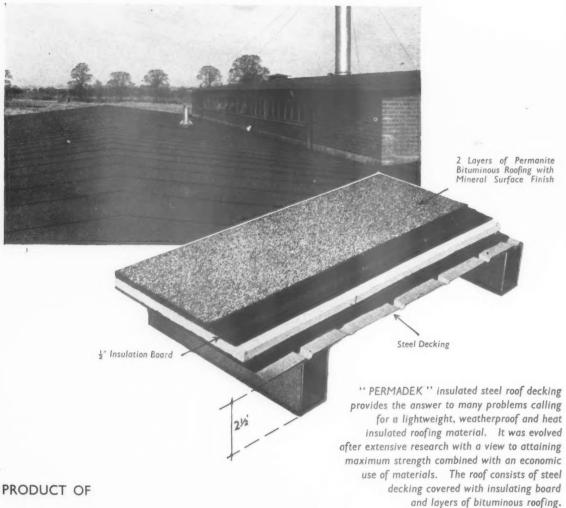
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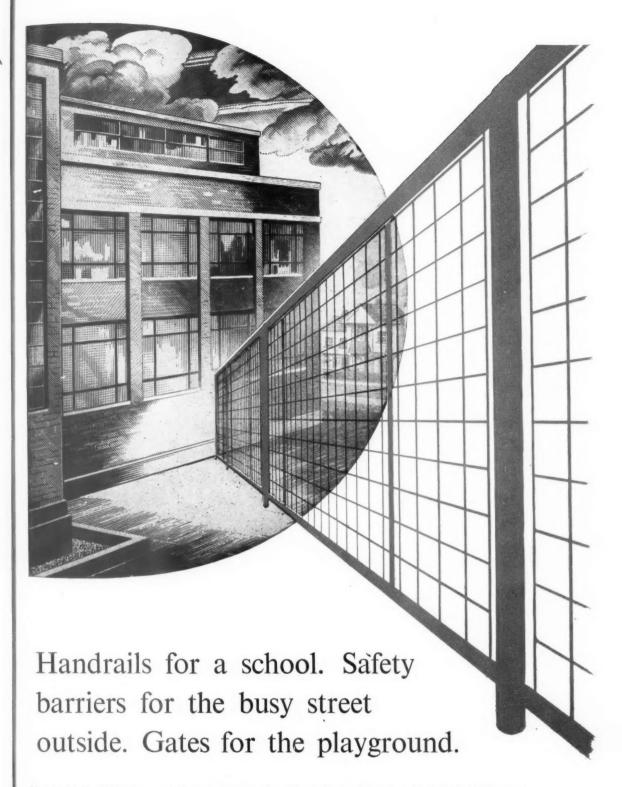
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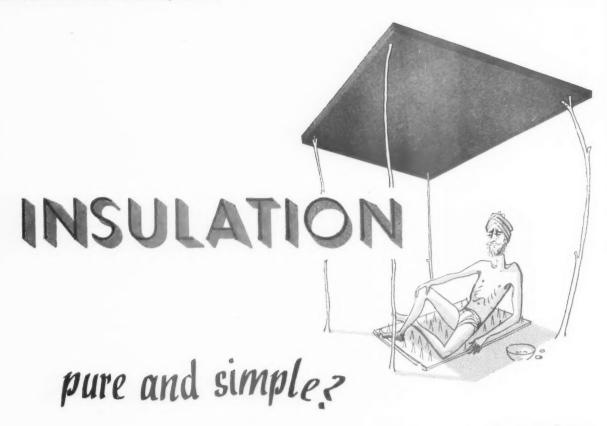
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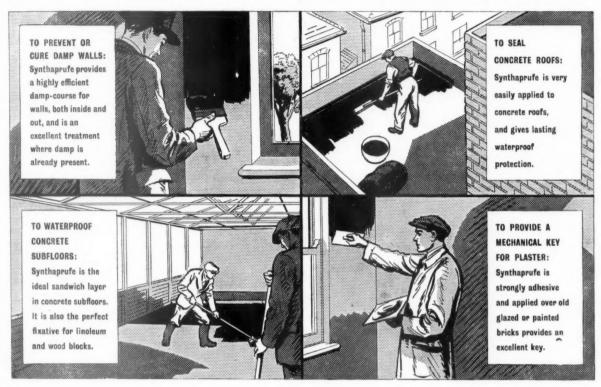
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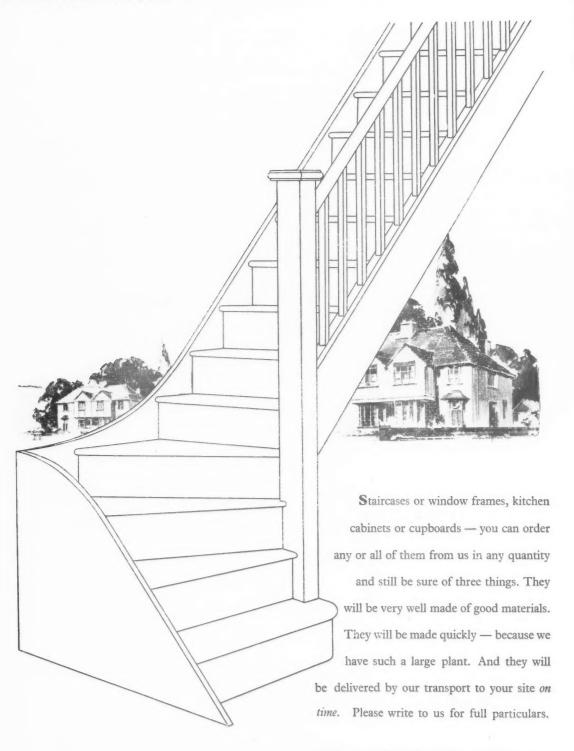
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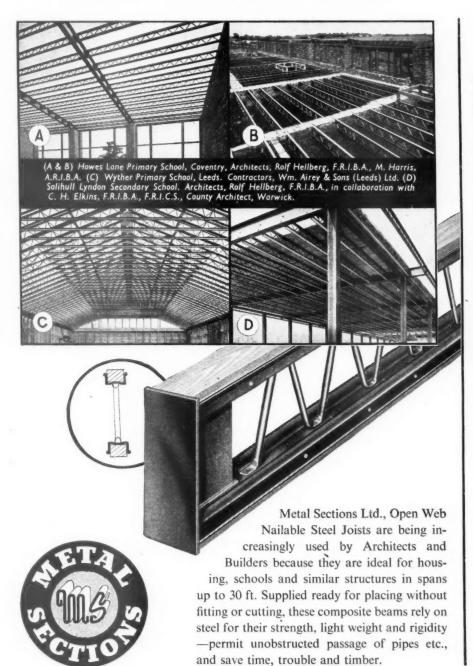


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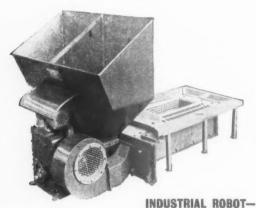
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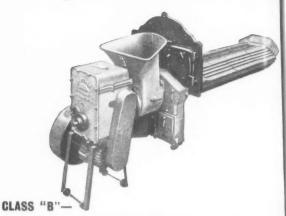


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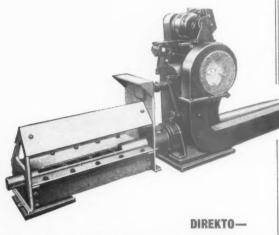
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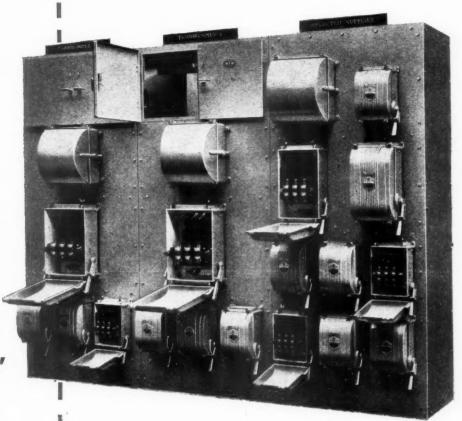
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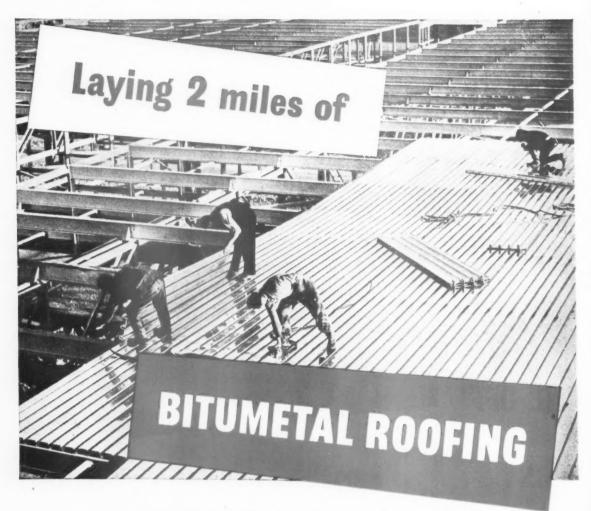
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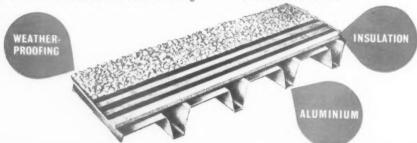
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The illustrations show two typical road constructional projects carried out at (above) Wellgate, Rotherham and (inset) at Luddendenfoot, West Riding

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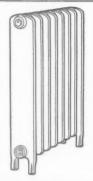
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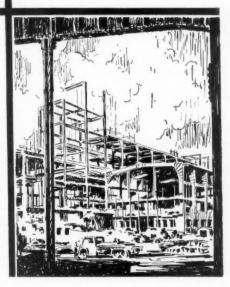
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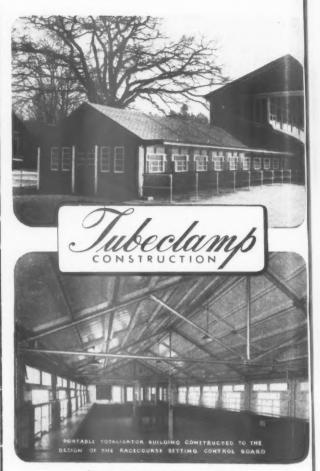


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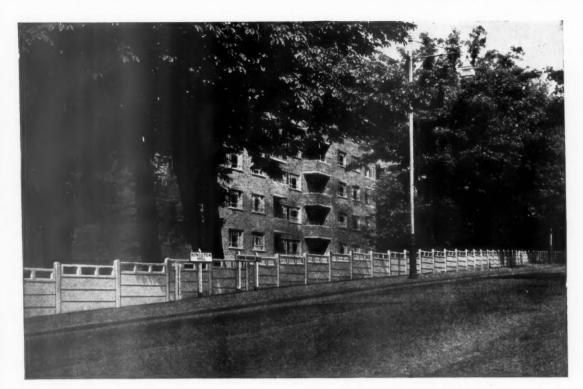


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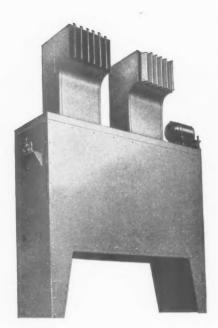
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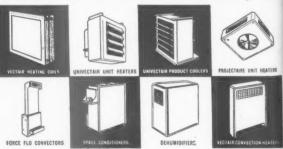
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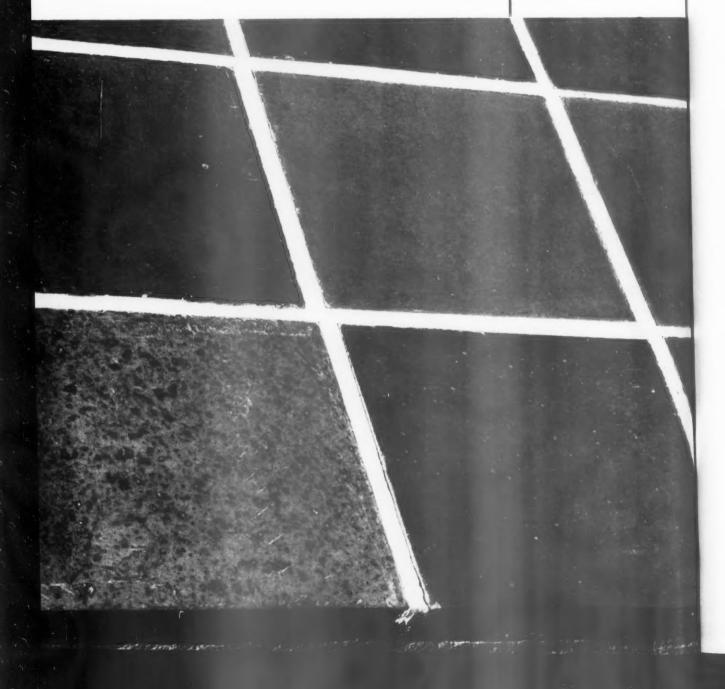


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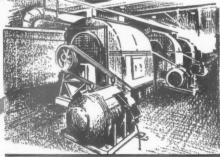
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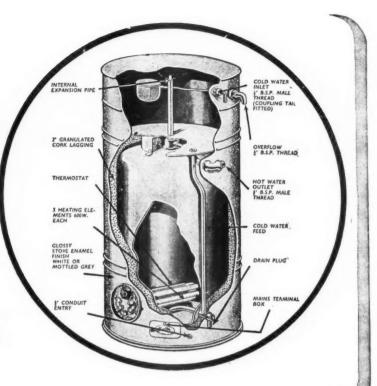
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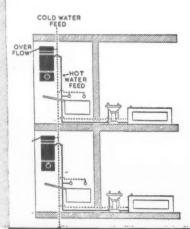
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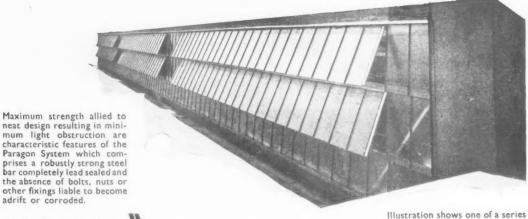
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Technical details of Medino Boards are given in Information Sheet 14.L11 published in April 30 issue. xxxix



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* Britannia Walk flats for the Metropolitan Borough of Shoreditch Borough Engineer and Surveyor: Mr. J. L. Sharratt, A.M.Inst.C.E.

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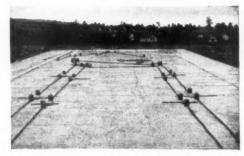




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By courtesy of R. Oliver Harris, Esq.,F.R I.B.A., County Architect, Somerset County Council.



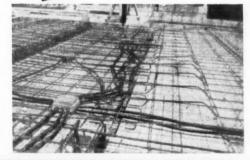
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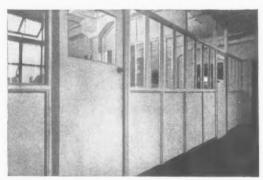
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Fig. 755



Fig. 6015 THE "KODE B"



Fig. 439 THE LOTUS

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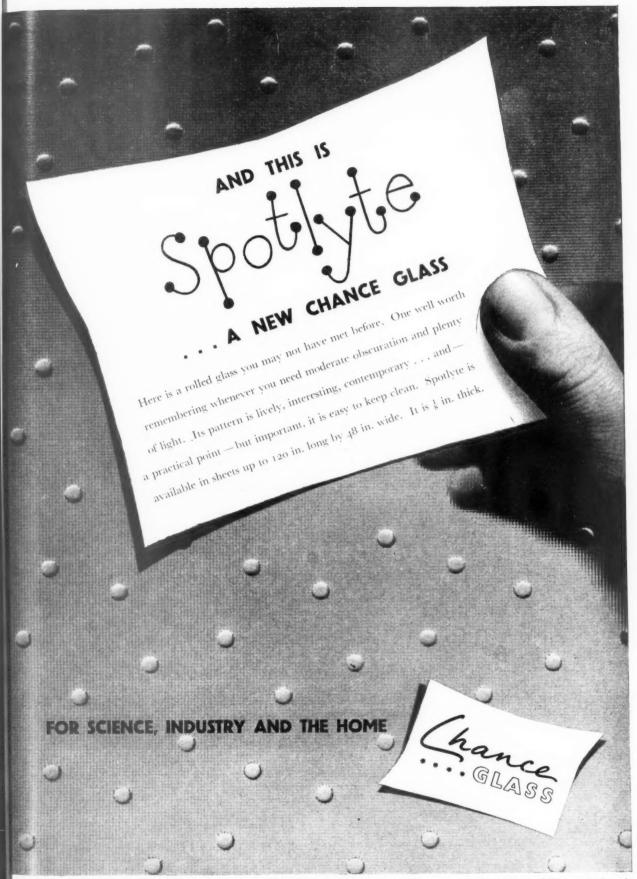
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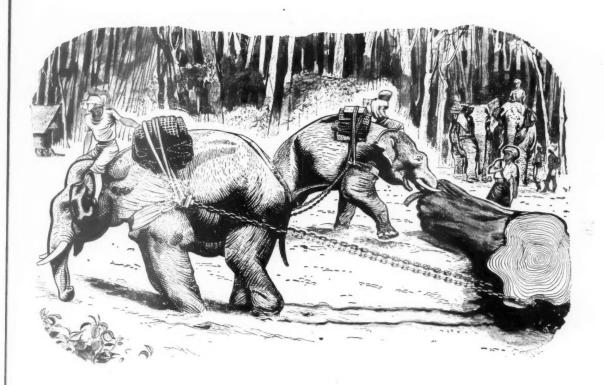
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(A.J. Information Sheet No. 33010)

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SOUTH BANK: DOWNSTREAM . . .

The pictures of various South Bank goings-on which appeared in last week's JOURNAL must have whetted your appetite to see what the transformation is really like. ASTRAGAL popped across the river to have a look and was quite impressed.

The downstream section is now more or less finished and begins to look almost festive, even if the fence round the children's playground is a little more rustic than it need be. The playground itself makes quite intelligent use of the changes of level left over from the Festival, and offers the little darlings a number of large unbreakable concrete objects to clamber

through and over, and to try their worst on generally. There is a real motor van (minus engine) for them to tear apart if they can, but the ship and the railway engine are made of concrete—presumably they are either harder to get, or harder to replace, than delivery vans, but the effect is curiously incongruous.

The Thameside Restaurant is looking up, too. One end of it is now licensed, which will fill a long-felt want. The whole place has been smartened up with new detailing in the same idiom as the original Fry-Drew work. and all those dreary institutional chairs and tables have been replaced by neat little splay-legged, bent-plywood pieces which look much more jolly. So now one can drink an honest beer overlooking the river in the very heart of London-which is something to remember when you have to entertain a country cousin who is up for the day, or, of course, if you are a visiting country cousin yourself.

. . . AND UPSTREAM

The most notable contribution to the rehabilitation of the upstream section is, of course, the BEA airways terminal, of which there were also pictures in the JOURNAL last week. It is going to take some time to make up one's mind about the exterior, with its three sharp little gables set in startling contrast to the great paraboloid sweep of the main roof, but inside things have worked out extremely well, and there is a fine air of bustle and smart new paint—so much so that ASTRAGAL had an almost uncontrollable yen to book a passage to Naples there and then.

There is only one pity about this otherwise clever scheme, and that is the loss, to the travelling public, of the high level concourse. As the chief traffic officer pointed out, air passengers are so adept at mislaying themselves and their luggage on one floor that the chaos which would result if they were allowed to wander up a couple of flights of stairs to the concourse would be intolerable. ASTRA-GAL, who can get lost in quite a simple railway station, had to agree. However, one hears that BEA intend to throw some summer parties up on the top there.

Something else that impressed ASTRA-GAL was the sudden improvement in the design of airways buses. After the mouth-organ fronted, droop-waisted and fin-backed horrors which BOAC inflicted on us a couple of years ago, these new BEA one-and-a-half decks are a welcome change. Unlike other one-and-a-half's, these have no step in the roof, which continues at "mezzanine level" to the front of the bus, with two tiers of windows in the forward section. This gives a much firmer outline to the bus as a piece of architecture, and makes the front part wonderfully light and airy.

MEN. TREES AND SPACE

The figureheads of English art—contemporary art, that is—are both being shown in special, coronation-season exhibitions at the moment. A large collection of large paintings by Graham Sutherland are now in the Tate—an English reign of terror succeeding that Mexican one. It would be quite impossible to say that they are *nice* paintings; most of them made ASTRAGAL feel

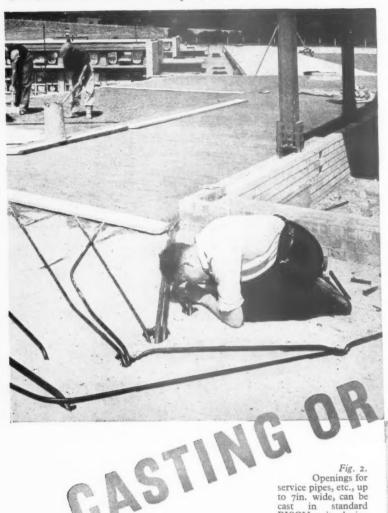




Fig. 1. Holes for lighting points may be easily cut through the hollow section of BISON units.

R GUTTING

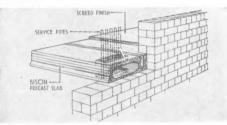


Fig. 2. Openings for service pipes, etc., up to 7in. wide, can be cast in standard BISON units during manufacture. Larger openings can be ar-

ranged to meet particular require-

ments. (See Fig. 4.)

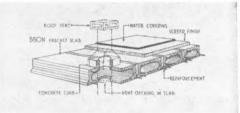
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Fig. 3. Vents, similar to that illustrated, are often required in roofs and may be cut or formed during the manufacture BISON units.

Fig. 4. Large openings up to 1ft. 9in. wide can be cast during manufacture by means of a special BISON unit double width. (See Fig. 2 also.)



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> Hen at the recor Ther show peop Mr. large with insid of th

> > wall

ASTRAGAL compliments the fishing port of Lowestoft, Suffolk, on its Coronation decorations. As you will see, the borough engineer's department has incorporated herring fishing nets in a design which owes nothing to previous Coronations. ASTRAGAL would be glad to see other examples of well designed decorations outside London.

profoundly uncomfortable, but quietly respectful. One has to admit that Mr. Sutherland's view of the English land and what grows on it-men and trees not being very clearly distinguishable to his eye-is a fair reflection of the way we are.

Other people seem to think so, too. One of the two cultured ladies who stood between ASTRAGAL and a painting suggested that it looked "like a prawn impaled on a hat-pin." She received the crushing reply: "But don't we all, dear, don't we all?"

Henry Moore, the other figurehead, is at the ICA; and this show can safely be recommended as a tit-bit for architects. There is only one piece of sculpture on show; the rest consists of drawings of people and things occupying spaces. Mr. Moore emerges from this rather too large collection of drawings as a man with a most extraordinary sense of the inside of a room and the objects in it. of the relationship between people and walls, and one another.

The other thing which makes this exhibition a "must" is the extremely ingenious way in which the pictures are displayed on screens hung from the ceiling by a cradle of ropes, devised in such a manner that they can all be turned up flat and hooked together just above head-height to leave the gallery clear for other activities. Tidied up a bit, and arranged on the inevitable module, this device might be the answer to the problem of the multi-purpose display room.

ANOTHER "SPECIALIST" REQUIRED

Those of you who go pink about the ears while you draw those diagrammatic little rectangles symbolizing w.c's had better skip these next few paragraphs. After reading the recent article in the JOURNAL on public lavatories, ASTRAGAL had the good fortune to meet a man who may well become the Harington (inventor of w.c's-remember?) of tomorrow.

There seems to be no subject safe from the probing critic, and the latest victim seems to be the water-carriage system of sanitation, which is held in such esteem as the foundation of modern plumbing, and almost of western civilization, the world over. Plenty of water and plenty of drains has been the rule; and, no doubt, engineers and plumbers have done very well out of it, while bestowing its undoubted benefits on mankind.

But now comes an awkward question. It is whether the modern world can afford to go on with its prodigal use of water for carrying off noxious wastes,

in particular, those from toilets. The proportion between the carriage medium (the water) and the load (toilet wastes) is challenging. The diagram throws it at you. A is the amount of water now used to carry away B, which is

total excreta per average person. C is B after dehydration. Cold-hearted comparison shows it to be much the same as using a two-ton truck to carry never more than one bag of cement.



The Stage Is Set

The stage is set for next week's Royal occasion. The suburbs are bursting with well-meant vulgarity. And in London itself designers who are probably not young enough to know better have awakened echoes of an earlier Coronation. But in the centre of all this misdirected enthusiasm there is a most sophisticated stage setting for the big show that will precede and follow the Abbey ceremony. Viewing stands around Parliament Square have risen with a dignity and unity that seem astonishing in structures of their kind.

Elsewhere Sir Hugh Casson's decorations give wit—without facetiousness—to the setting. And in the Mall (above) the British public takes the sun-warmed air beneath the gay, elegant arches which Eric Bedford, MOW's chief architect, has designed. "It's rather like the South Bank," more than one person will be heard to say. And, whether the remark is made with kindliness or contempt, one realizes, once again, the extent of the Festival of Britain's influence on design today.

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Of course it does not matter if the water is going there anyway, and the load is merely riding the rapids. But modern plumbing usually calls for a diversion of Nature's water courses through miles of underground pipes in order to reach the domestic toilet, and then more miles to the sewage outfall. In doing so, vast quantities of iron and steel, clay goods and cement are used up. (Quite apart from the waste water; I'm told that if everyone in England had a bath a day we'd be rationed in a week.) Is all this consistent with modern economics? Is this why some of the lucky ones get good plumbing services and great numbers in the world just do the best they can?

If the situation were without remedy there would be little point in bemoaning it. But now the suggestion comes that quantities B and C in the diagram, being small, might be safely contained and treated by means which are not applicable to the relatively huge quantities of A; and that this modern world which can do great things with the atom might have a successful go at this apparently more straightforward problem. Will our present sanitary people be the ones to lead the way? Maybe it needs a Henry Ford, or a Kaiser-whose methods, so I believe, were to employ on problems people who had never learnt the standard way of solving them.

CAN YOU EAT IT?

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The innocent inquiry last week about modern - movement wedding - cakes brings a note from a friend who is working on the problem, and hopes to present his findings to CIAM in the near future. The cake (I quote) will be spherical, as this gives an optimum ratio of internal contents to external area to be rendered—though it is likely that a pre-cast cladding will, in fact, be applied. There are four radially projecting arms, three of which serve as legs, raising the cake clear of the table-cloth, which is thus left open for circulation, while the fourth, rising vertically, acts as the firing pin for a small charge located at the centre of the cake. This pin is struck with the flat of the swordblade, and research is proceeding at the moment on the correct form of explosive charge to ensure the most equitable distribution of portions.

ASTRAGAL.

POINTS FROM THIS ISSUE

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The Editors

A NEW HOUSING PROBLEM

T is good news that the National Parks Commission is thinking of investigating the social and hygienic problems of caravanning. As Lord Mancroft said in the House of Lords last week, the caravanning habit is a new phenomenon in the post-war world. The number of caravans in this country has increased by more than 100,000 since the war. And this growing form of living is bringing growing problems —as most planning authorities are beginning to realize. It is but a short step, as Lord Mancroft said, from the caravan site to the shanty town. And there are already some sites in the country which are little better than shanty towns. Many more can only be described as sub-standard housing. How can this happen, we may ask, in defiance of the planning and public health acts? The fact is that it has happened. And, as with most things, cure is more difficult than prevention would have been. It can sometimes be very difficult for a local authority to evict caravan dwellers who are living under insanitary conditions on a private enterprise site, for if the caravanners have no alternative accommodation the Ministry will probably listen to an appeal with some sympathy. There is, however, one thing that local authorities can do if

There is, however, one thing that local authorities can do if they have to cope with caravan site problems in their area. They can provide a well-planned site of their own, equipped with service roads, adequate sanitation and, perhaps, recreational facilities. The possession of such a site gives them far greater power in a court of law. In fact, one authority on the East Coast is succeeding in systematically removing caravans from scattered "beauty spots" simply because it has already prepared an alternative site.

Even if we do regard residential caravan sites as sub-standard housing, we must accept the fact that they are here to stay—though not, perhaps, in such large numbers now that restrictions on house-building have been relaxed. (It is rumoured that the peak period for caravans is now over and some local authorities estimate that there will be few residential caravans remaining in ten years time. It would, therefore, seem sensible for local authorities to bring residential caravans under their control on sites which could subsequently be used for housing development. And there is something to be said for the argument that residential caravanners should not be made too com-

Their way of life—unlike that of the genuine camper—should surely not be encouraged.)

If the National Parks Commission does go ahead with its investigation, we may get some facts not now available. It would be interesting, for example, to know how many people have decided to live in caravans, not because they are on a housing list, but because they like the low rates and the absence of housework. But whatever the Commission discovers. it is hoped that it will be able to persuade the MOHLG to lay down minimum requirements for caravan sites.

In this article, Martyn Webbsenior member of the team assisting Professor Bowen, the JOURNAL'S Guest Editor-continues to discuss post-war unemployment in the architectural profession. The title piece above is reproduced from a page chosen at random from the Architect's Register, and the names have no direct connection with the article.

MARTYN WEBB

Post-War Unemployment in the Architectural Profession

Unemployment is undoubtedly running at a higher rate now than it was two or three years ago, but the bulk of those who were unemployed last September appear to have found positions. If, in the next few years, each autumnal rise in unemployment were to leave behind a larger number of unemployed than there were in the trough preceding (see graphs), then it might be assumed that some degree of overcrowding existed. The most that can be said at

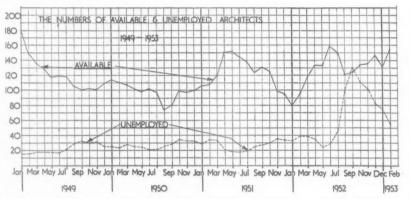
this stage of the inquiry is that the profession does not appear likely under present conditions to be able to continue to absorb new entrants with quite the same facility as immediately after the

The problem is primarily one of absorption, but one of the problems that must be faced is one of supply. A heavy demand for architects has, at present, two responses: first, it

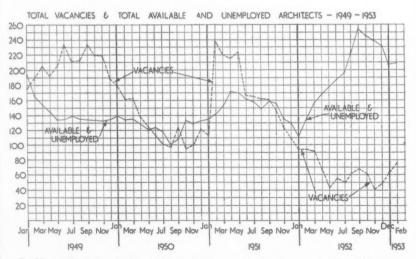
leads employers to take on more juniors direct from school, who will in turn seek to qualify, and, secondly, it encourages full-time schools to accept more students or be bombarded with applications for admission. In the extreme case, it could quite well happen that the profession trains twice the required number of new architects; half of them qualified via part-time studies and the other half from recognized schools.

This, of course, is an exaggeration, but when it is realized that something between 1 in 4 and 1 in 6 of last year's schools output appear to have declared themselves as unemployed, architectural unemployment last year was, in one sense, comparatively serious, and springs possibly from the heavy demand for architects during the early post-war

It is hoped that this conflict as between full and part-time study and its economic implications will be discussed more fully in a later article; it is a problem that will have to be faced by the profession.



Above, a graph showing the numbers of unemployed architects, and architects who are registered as available for work, i.e., architects registered as seeking work, but not officially "unemployed". Note that the total numbers of unemployed and available architects during 1952 reached a higher level than in any previous year.



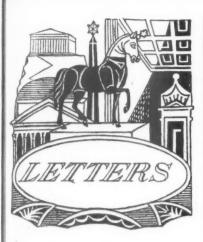
In this graph, prepared after study of official records, the Journal's Guest Editor's research team shows the number of job vacancies notified and outstanding in each month from 1949 to 1953, and the number of available and unemployed architects.

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[Some legged, On the rest see Granted cal con Western fitting v ing top have no

> white arate placed trap,





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Ian Duncan, B.Sc. Student, R.I.B.A.

Arthur Lindsay, A.R.I.B.A.

D. A. Cohen, A.R.I.C.S.

7. B. Lambert, Student R.I.B.A.

Public Lavatories

SIR.-Might not the problem of avoiding physical contact, mentioned in part II of your number, May 14, on Public Lavatories, be overcome by the use of the oriental type of fitting, which is set flush with the floor. I not yet persuaded anyone to instal one of these, although my doctor assures me that the crouching position is anatomically prefer-able, and that the present height of fittings is the cause of much chronic constipation.

My own experiments convince me that this (natural) position is the more comfortable. IAN DUNCAN.

Croydon.

[Some races sit on chairs; others sit, cross-legged, on the floor, or squat on their heels. On the posture customary as a position of rest seems to depend the type of w.c. pan. for anted that the oriental type prevents physical contact and ensures a better posture, Western conservatism and tradition and the tightness of Western clothes will probably ensure that no extreme change in the type of ing top are supplied by some manufacturers and the slope ensures a better posture. They have not proved very popular in public lava-



A squatting type w.c. suite, comprising white glazed, fireclay, tread plate with separate earthenware pan (which is, of course, placed beneath it) and loose "s" and "p" trap, vented.

tories because they have been prone to foul-ing by the user. Whether this was due to faults in the design or lack of familiarity on the part of the user is debatable. Generally, the advantage of the squatting posture can be achieved by a low pan, of about 14 in. high (the B.S.S. is too high) or some form of raised foot-rest.-ED.]

-Your special issue on Public Lavatories brings back vivid memories of my humble beginnings in architecture which, for one reason and another, seemed to be filled almost exclusively with the design and detailing of "privies"—I waxed almost detailing of "privies"—I waxed almost nostalgic as I reached the climax of the articles: basic requirements.

Up to this stage I had been prepared to award you 100 per cent., but here I had to reconsider, and I cannot find it within me to give you more than 95 per cent. There are two glaring omissions, one an essential, the other at least desirable.

(a) Ash trays, fixed to wall or partition, are essential even in third class conveniences. both for men and women. They must be large, and prominently fixed. There is little as unpleasant to smoker and non-smoker alike as ash all over the floor or seat, and someone's decomposing cigarette in the W.C. pan, basin or urinal.

Boot-brushing machines, as they are to be found in some of the better Continental rail stations. After all, a public convenience is not merely utilitarian in the sanitary sense, but should be a general asset to the community's grooming. Clean boots are a must, and where (except at home or at one or two selected bootblacks' haunting grounds) can a business man, on his way from one appoint-ment to another, get them?



To prove, finally, that I am a serious student of the subject, I enclose a full length portrait of one of the more modern street "urinoirs" to be seen in the precints of Nôtre Dame. ARTHUR LINDSAY.

Derby.

[Both ash trays and shoe cleaning machines were included in the JOURNAL's table for Grade I lavatories, and the former was also recommended for Grade II. We would rerecommended for Grade II. We would remind Mr. Lindsay that Grade III was defined as a category where the "exposure of fixtures and fittings to hard wear and misuse must be controlling factors." It is regrettable that such fittings put into an unattended public lavatory would in all probability have a very short life indeed.—ED.]

Contracting Methods

SIR.—On reading your leading article on "Contracting Methods" published in the JOURNAL for April 23. I felt I could not let

You state: "It has not been our intention to give a detailed analysis of contract procedure; this was done most ably in the famous Simon Report, . . . nor was it our intention to try to draw any conclusions on

the basis of a limited discussion involving only five people. However . .

In the best journalistic manner you then proceed to draw such conclusions, excusing yourself by saying, "certain points have emerged so clearly that we must draw further attention to them.'

I would be among the first to agree that the subject of contracting procedure is so wide and complicated that a limited discussion on the problems involved is virtually useless except as a means of "airing" such problems, and therefore, while I have not sufficient space to deal with these prob-lems in this letter, I must protest most strongly at the conclusions you seem to have arrived at.

The points which you state "have emerged so clearly" from your limited discussion by five people are in almost every case at variance with the conclusions drawn up by the Simon Committee, a committee of some forty distinguished members who can hardly be said to have had a "limited dis-

cussion on the subject.
You lightly dismiss their conclusions by saying some of the Simon Committee's recommendations in particular, the one concerning the virtues of the normal system of competitive tendering are not so widely accepted today as they were in 1944.

As you make no attempt to substantiate this assertion, it does not seem to me to be out of place to mention at this point the Working Party Report on Building published in 1950 (again not a limited discussion by five people) which states in its chapter on Contracting Arrangements are broadly in agreement with the recom-mendations of that Committee (the Simon Committee) including in particular those in Chapter III of the committee's report in regard to selective tendering."

May I also draw your attention and the

attention of your readers to what the Simon Committee considered were the major causes of inefficiencies in the present most widely used contracting system, namely the fixed price contract secured by a competitive tender based on a bill of quantities. They were:

i. Insufficient pre-contract preparation.

ii. Extensive variation orders. iii. Indescriminate competition.

iv. Indefinite relationship between the general contractor and sub-contractors. May I ask what steps have been taken since the publishing of the committee's report to remedy these causes of inefficiency . especially the first two?

As you see, I am not suggesting that the present system is without its faults, or that there is not room for improving it, but I do suggest that it is unfair to misuse, or abuse, a system, and then complain that

it does not work properly.

Finally may I say, that the implied suggestion in the last paragraph of your leading article, that the multiple benefits of, ... "savings due to the architects ingenuity, efficiency in the contractor's office, hard work on the site, and self-control with rework on the site, and self-control with regard to variation on the part of the client"... are to be had by discarding the system of competitive tendering on a bill of quantities, for "some form" of cost, reimbursement contract (exact form not stated), is, I suggest, either wishful self-delusion, or a misreading of the facts of the matter. D. A. COHEN. London.

Outdoor Seats Design

SIR.-You seem to imply (AJ, May 14) that my design for the outdoor seat competi-tion, organized by the COID and the Corporation of Birmingham, received no award. It is, in fact, one of the seats which received second-class award. J. B. LAMBERT.

Birmingham.

[Our apologies to Mr. Lambert.-ED.]



MOHLG

1953 Housing Medals

Following is a list of architects and local authorities who will receive 1953 housing medals and diplomas offered by the Minister of Housing and Local Government, Harold Macmillan, for the best designed local authority urban and rural housing estates in England and Wales. The name of the schemes are also given.

Northern.-Peterlee Development poration, Thorntree Gill Estate, W. J. Scott, rhief architect to the corporation; Helmsley RDC, Elmslac Road, Helmsley, Needham, Thorp and White, York. East and West Riding.—Wetherby RDC, North Rigton, Thorp and White, York. East and West Riding.—Wetherby RDC, North Rigton, W. A. Jones, Leeds. North Midland.—Higham Ferrers BC, Upper George Street, Gotch, Saunders and Surridge, Kettering, Northamptonshire; Brackley RDC, Moreton Pinkney, G. Forsyth Lawson, Banbury, Oxfordshire. Eastern.—East Ham CBC, Ingrave, Brentwood, A. W. Walls, The Housing Department, East Ham; Hatfield Development Corporation, Roe Green, Lionel Brett and Kenneth Boyd, Watlington Park, Oxford; Epping RDC, The Oxleys, Harlow, R. O. Foster, Buckhurst Hill, Essex. London.—Westminster CC, Churchill Gardens, Pimlico, S.W.I, Powell & Moya, Westminster, S.W.I; Friern Barnet UDC, The Hollies, K. R. Smith, Gray's Inn, W.C.I. Southern.—Abingdon BC, Thames Street, F. Russell Cox, Witney, Oxon.; Windsor RDC, Nell Gwynne Avenue, Sunninghill, Sainsbury and Chamberlain, Cross Street, Reading. South Western.—Bath CC, Phænix House, Julian Road, H. D. Roberts, The Circus, Bath; North Cotswold RDC. Littleworth Estate, Chipping Campden, T. R. Bateman, Evesham, Worcestershire. Midland.—Birmingham CC, Toronto Gardens, Harborne, D. O. Harris Campden, T. R. Bateman, Evesham, Worcestershire. Midland.—Birmingham CC, Toronto Gardens, Harborne, D. O. Harris Davies, City Housing Department, Birmingham; Coventry CC. Wellington Gardens, Spon End, D. E. E. Gibson, C.B.E., City Architect, Coventry. North Western.—Liverpool CC, Southdene Kirkby Estate, R. Bradbury, City Architect, Liverpool; Ulverston RDC, Hawksgarth, Hawkshead, H. Nicholson, Housing Department, Ulverston RDC. South Eastern.—Crawley Development Corporation, Northgate, Alwyn ment Corporation, Northgate, Alwyn Gwilym Sheppard Fidler, Chief Architect to the Corporation; East Ashford RDC, Chil-ham, Jackson and Jackson, Ashford, Kent. nam, Jackson and Jackson, Ashfold, Kell. Wales.—Swansea CBC, Toronto Place, Penlan, H. T. Wykes, Borough Architect, Swansea; Maelor RDC, Horseman's Green, Halghton, H. Anthony Clark, F. C. Roberts and Partners, Regent Street, Wrexham.

These annual awards are made-with the support of the RIBA-to encourage a high standard of house design and estate planning. Entries are received from New Towns and from housing associations, in addition to local authorities.

The 1953 awards were chosen from 294 schemes completed during 1952. There were 19 more schemes entered for this competition than for the previous year.

The Regional Awards Committee, which judges the schemes, consists of nominees of the RIBA, local architectural societies, the local authorities' associations, and the Minister of Housing and Local Govern-

A medal together with a diploma signed by the Minister and by the Chairman of the appropriate Awards Committee is given to the architect or designer responsible for each winning design. A similar diploma is presented to the local authority concerned. The Minister of Housing and Local Gov-

ernment will present the medals and diplomas at the RIBA headquarters on Wednesday. June 24, at 2 p.m.

LCC

Planner to Visit S. America

Arthur Ling, senior town planning officer of the LCC, has been invited to Chile by the School of Architecture of the University of Santiago to advise on present and future planning courses. He will also be giving some public lectures and a short course in

Mr. Ling will be leaving on August 1 for three months. The British Council has asked Mr. Ling to lecture in the Argentine during his visit to S. America.

RIBA

Welding Conference

The Council of the RIBA, at its recent meeting, accepted an invitation for the RIBA to be associated with the MOW, the ICE and the ISE in convening a conference on welded structures. Of the twelve papers to be given, six will deal with steel framing buildings, and it was agreed to offer the RIBA's lecturers. co-operation in selecting

CCP to be Re-organized

The Council considered proposals which had been put forward for the re-organization of the CCP. Financial and administrative responsibility would be transferred from the MOW to the BSI, and a framework of codes of practice committees under the direction of a professionel codes of practice council would be set up, parallel to the existing structure of BSI committees.

Some apprehension was expressed at the risk of the loss of autonomy by the CCP, and it was agreed that the RIBA would not object to the proposed re-organization if adequate safeguards for the maintenance of the control by professional representatives were included.

Charles Woodward was appointed as the RIBA's representative on the negotiating committee to be set up to settle the details of the new organization.

LONDON

City Office Block Criticized

A recent letter to *The Times* complaining of the size of the new office buildings to be erected to the east of St. Paul's was signed by: A. F. Blunt, director of the Courtauld Institute of Art; William Coldstream, Slade Professor, University College; E. H. Gombrich, Slade Professor of Fine Art. University of Oxford; Philip Hendy, director of the National Gallery; Charles Mitchell of the Warburg Institute, University of London; Benedict Nicolson, editor of The Burlington Magazine; N. Pevsner, Slade Professor of Fine Art, University of Cambridge; Lione Charles Robbins, Professor of Economics, University of London; Geoffrey Webb, secretary of the Royal Commission on Historical Monuments. and R. Wittkower, Durning Monuments, and R. Wittkower, Durning Lawrence Professor of the History of Art. University of London.

The letter stated that "even allowing for the misleading conventions employed in such perspectives as those exhibited in the Royal Academy, it is clear that the bulk of a single great building on this site will make it a very bad neighbour to the Cathedral."

This letter was followed last week by a letter from A. R. Dufty who, whilst agreeing that the first necessity was to reduce the size of the proposed buildings around St. Paul's, made a plea for them to be designed and built in a "vigorous contemporary style."

Mr. Dufty criticized the remarks of the chairman of the Improvements and Town Planning Committee, who had referred at a recent Court of Common Council to the simpler background of Georgian architecvire." Neither Georgian nor any other revived style of architecture, wrote Mr. Dufty, was applicable to the huge blocks of buildings being designed for the City.

CONGRESS

International Union of Architects

Arrangements for the International Union of Architects' third assembly and congress to be held in Lisbon at the Palacio For from September 21-27 will be in the hands of a steering committee presided over by the president of the congress and made up of the chairmen and rapporteurs of the plenary sessions and working groups, of which the congress will consist. The conclusions reached by working groups will be edited by editorial committees elected by the dif-ferent groups, and will then be presented in plenary session for discussion and approval. The chairmen, rapporteurs and secretaries of the working groups are "ex officio" mem-bers of the editorial committees.

The working languages for the congress will be French, English, Spanish and Portuguese. For plenary sessions a system of simultaneous translations will be laid on. Each working group will itself decide in what language its work will be transacted.

A full account of the congress will be printed and put on sale in 1954. One copy will be sent free to all members of the congress.

Three exhibitions will take place in Lisbon during the congress. The Fine Arts Society will show the International Union of Archi-tects' travelling exhibition and also an exhibition of designs submitted in a competition for architectural students organized by the IUA; and an exhibition of traditional techniques in Portuguese construction will be held in the Park of Edward VII.

C. H. Askin and Professor Gordon Stephenson have accepted invitations from the International Union of Architects to act respectively as chairman of the school construction working group and rapporteur of the working group dealing with town plan-

Enquiries about the third assembly and congress should be addressed to the secretary of the International Union of Architects, M. Pierre Vago, at 15, Quai Malaquais, Paris,

New To designed a 20-ft. f price (De Home in designed Officer. Leicester buildings

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BUILDINGS IN THE NEWS



Above is a photograph of the 1000th house in the Hatfield Above is a photograph of the 1000th house in the Hatfield New Town, which was officially opened recently and was designed by Lionel Brett and Kenneth Boyd. The house has a 20-ft. frontage and a floor area of 900 sq. ft. The contract price (December, 1951) was £1,370. Below, the Old People's Home in the Tile Hill Neighbourhood Unit, Coventry, designed by D. E. E. Gibson, City Architect and Planning Officer. Right, an office block nearing completion, at 29-30, beingster Square—designed by de Metro and Righs. All these Leicester Square—designed by de Metz and Birks. All these buildings will be illustrated in later issues of the JOURNAL.

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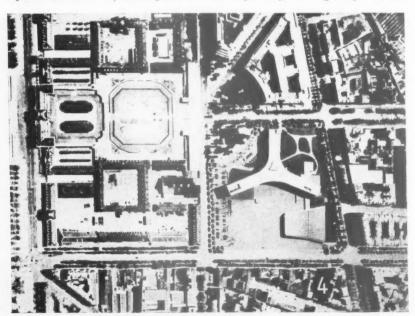




UNESCO HEADQUARTERS, PARIS: REVISED DESIGN TO HAR



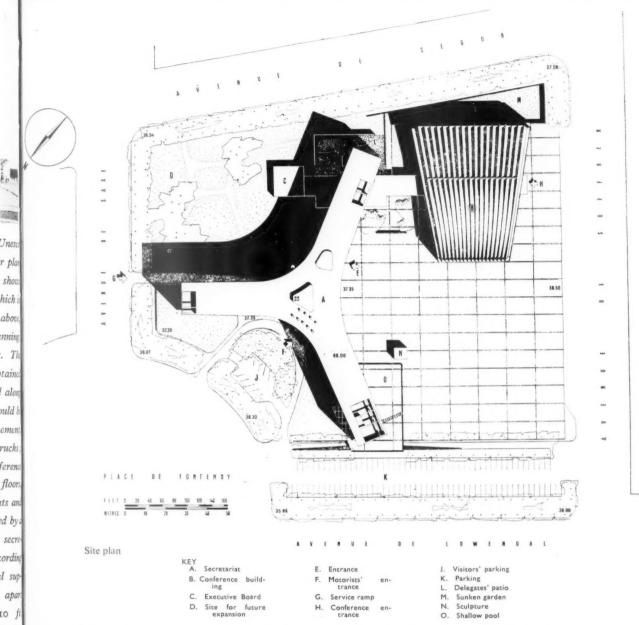
Last week the JOURNAL announced that a revised design (by Bernard Zehrfuss, Marcel Breuer and Pier Luigi Nervi) for the Unest headquarters in Paris had been approved by the international panel of advising architects. This week we show a sketch, a floor plan and details of the site. There are two main buildings—the Secretariat Building and the Conference Building. The picture below show how the curve on the north side of the Y-shaped Secretariat completes the semi-circle of the Place de Fontenoy, to the left of which the Ecole Militaire. While this side of the building harmonizes with historic surroundings, the main facade, seen in the sketch above faces south-west across a large new piazza, towards the Suffren-Grenelles district—a district which is due for large-scale replanning So the Secretariat shows a proper respect for the past and yet turns its face to the future—and towards the Conference Building. The Y-shaped design of the Secretariat was chosen so that (a) corridors would not be excessively long, (b) unobstructed views could be obtained from windows, (c) services and circulation facilities could be placed in a well-organized central core, (d) offices could be placed along the outside enclosures of the building and would thus be naturally ventilated and lit, and (e) the maximum outdoor space would be provided between Unesco and the neighbouring buildings. Facilities in the Secretariat are planned as follows:—second basement storage, heating plant, mechanical services; first basement, ditto-plus repair garage and an underground delivery quay for trucks ground and first floors, library, bookshop, bank, information, news and telephone stands and passage ways leading to the Conference Building and to the executive wings, which are all on this floor and are integrated with the main circulation; second to sixth floor secretariat and delegates offices, with interchangeable partitions; north-east wing of sixth floor, clinic; seventh floor, restaurants and roof gardens. From the ground floor of the Secretariat a passage leads to the Conference Building, which can also be approached by separate entrance. This building houses all the conference facilities (plenary hall, commission and committee rooms, conference secre-



tariat, and the press, radio and recording services) on three levels. Structural supports for the Secretariat are 20 ft. apar throughout the building-always 10 f behind the facades. Their cross spacing is chosen so that the positive bending mo ment in the centre of the span is nearly equal to the negative moment over th support. (In other words, the cantilevered part of the structure is favourably balanced with the structure between the uprights. This arrangement, in combination with this undulating slab which collaborates statically with the beams, results in minimum floor com struction thickness. The undulation of the slab forms the ceiling of the offices, except

the correction of structure walls.
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TO HARMONIZE WITH PAST AND POINT TO FUTURE



the corridors, where a hung ceiling conceals all mechanical conduits. The centre part of the building is supported by the structural enclosure of the vertical core. In the basements, for reasons of structural economy, a centre row of supports has been added. The columns of the ground floor are rectangular at the top and elliptical at the bottom. The corrugated reinforced concrete structure of the Conference Building is continuous in roof and end walls. The roof rests on the two end structures and on a row of columns placed 135 ft. from the north-west and 90 ft. from the south-east supports. The side walls are non-structural. The corrugated structure of the roof is braced and statically completed by a slab of varying thickness. By the form of the structure great efficiency is obtained with minimum material and weight. Most

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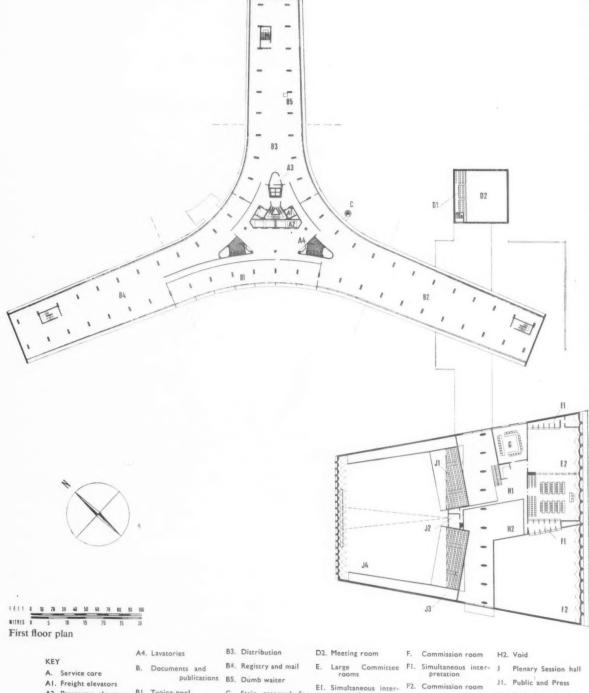
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of the building has natural ventilation, by means of sliding windows, natural lighting and radiant heating. The two upper levels of the Conference Building, the inside spaces of the lower level, and the basement areas are air-conditioned. The varied treatment of the three curved facades of the Secretariat reflects not only architectural considerations but detailed scientific research into utilization of and protection from the sun's radiations. The various seasons of the year and critical hours of the day have been considered. The resulting design shades the interiors from the high 'summer and mid-day sun, but transmits the low winter and morning-evening sun. It consists of a combination of projecting ceiling slabs and partitions with horizontal or vertical solar glass filters, respectively, on the south-west

UNESCO HEADQUARTERS, PARIS: REVISED DESIGN



A2. Passenger elevators B1. Typing pool A3. Mechanical

echanical sub-station, vertical Assembly, Draft-service lines and ing room and chimneys photo laboratory D1. Public and Press

C. Stair reserved for firemen

pretation E2. Two large commit-

G. Small

wo large commit-tee rooms con-vertible to one Commission room HI, Upper level

committee J2. Projection booth

Lighting and equipment gallery

J4. Void

and parts of the south-east elevations, according to the orientation of the actual window planes. It is the intention of the architects to establish close co-operation with painters and sculptors for various parts of the project. The project employs stone mosaic of a light texture and colour for the exterior wall finishes, rubble stone masonry for retaining walls and bush hammered concrete

with special aggregates for the exposed part of the structure. Sliding windows and glass walls are clear plate glass. Exterior sun filters on the south-east and south-west facades of the Secretariat are of heat-absorbing glass. The aluminium windows are anodized silver, the railings black. The roof of the Conference Building is copper oxidized green.

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MOI

By Jo

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The aspec Wok syste from whic In this, their fifth article on the MOE experimental secondary modern school at Wokingham, John Stillman and John Eastwick-Field describe the finishes, fixtures and fittings of the school, which has been occupied since the beginning of the current school term. In their last article, which will appear in two or three weeks time, the authors will compare the Wokingham school with other MOE development work, using different materials. The sketch below indicates the viewpoints of most of the 25 photographs which accompany the article.

MOE DEVELOPMENT WORK: WOKINGHAM: 5

By John Stillman and John Eastwick-Field

As might be expected, there is no lack of colour in the decoration of the interior at Wokingham. The painted walls that can be seen as soon as one enters the building give the impression at once that here is no ordinary conception of the walls of a school. (This one houses, incidentally, some 600 children.) The paintwork, when seen after the school had been in use for about three weeks, was everywhere fresh and clean, and the walls were brightly coloured-some with an overall colour, a few with descriptive paintings and or patterns. The sensation which the visitor receives is, undoubtedly, thrilling.

Many of the details and finishes are different from those usually found in schools, even in those schools from which Wokingham was developed. Some of these differences result from the use of a modular form of structure; some from the fact that the Ministry's architects have re-examined the properties of a great number of materials and components on the market, and have frequently found it worth while to instigate the production of entirely new patterns or to use comparatively little-known products which, nevertheless, seem to fulfil the require-Notable examples of these materials and components are: the ceiling panels-both those of vermiculite concrete in the classrooms, and those of fibrous plaster in the hall and gymnasium; the floorings, of studded rubber tiles, p.v.c. tiles and chipboard tiles; and the special light fittings, sanitary fittings, electrical switchgear, chalkboards, lockers and bench units. The chairs were specially designed, and even the shelves are of a pattern not normally used so extensively in schools.

Theoretically, the most important aspect of the development work which the Ministry is undertaking both at Wokingham and elsewhere is the system of structure and cladding, but from many points of view the impetus which has been given to the produc-

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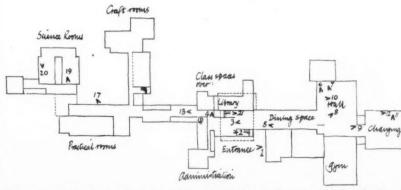
tion of new designs for light fittings, sanitary ware, joinery components and furniture is equally valuable. In addition, the architects have developed new ideas on the decoration of school interiors. Dreary glazed dados, and all the other devices for hiding dirty finger marks, have been abandoned in favour of a general background of white paint, accented by areas of bright colour (even the free standing columns are painted—although many designers might have thought it necessary to clothe them in a more durable and hard-wearing material). The paintwork is either full or semi-gloss oil paint or, in some classrooms, emulsion paint, and is washable. Everywhere it has been applied over the whole area of the wall, down to the floor, making no concession to former ideas of protection against dirt. Wall paintings, too, have been boldly carried out in circulation spaces and other positions where one might expect them to get damaged. The designers believe that, given such surroundings, the children will respect them, and there is already enough experience of schools which have been similarly decorated to encourage this

One of the special contributions which the Ministry's architects have made concerns lighting in relation to colour-how each can be used to modify the sensations received from the spaces which are created within Their theories on the the building. subject have been set out in Building Bulletin No. 9, Colour in School Buildings,* and the wall painting shown in Fig. 3 ("Summer") is situated so as to form an admirable example of some of the principles set out in the bulletin. When seen from the dining area, the painting appears as a brilliantly lit termination to the very long circulation and dining area, and the effect, which adds greatly to the interest of the design, is achieved by the siting of the painting in a position where it is well lit (from above), yet is seen through a relatively dark area (see sketch on page

The architects' ideas on decoration and the use of colour made it unnecessary for them to resort to "design features" which usually amount only to fashionable clichés of one kind or another. These are noticeably absent at Wokingham.

In spite of all the arguments, the only doubt which remains is whether, over the periods between repainting, usually six to seven years, the decorations will not be spoiled by wear and tear.

* (HMSO, 1953. 4s.)



Diagrammatic plan of school, showing viewpoints of photographs 1-21, excluding details 14, 15, and 16.



(t) Blue paving bricks, granolithic paving slabs, and areas of gravel and planting are used to give colour and interest to the forecourt. Much thought and care has been given to creating a simple but effective layout for the immediate surroundings to the building, which are considered an essential part of the school environment. The provision of tubs for flowers indicates a "positive" scheme of planting, inside and outside the school. For the internal planting, the architects have had advice on the choice of suitable plants from the planting sub-contractor. Arrangements have been made for a member of the staff to maintain them. The cost of planting—as also of wall decorations by the various artists—is included in the gross, but not the net, cost of the school. The part of the buildings that can be seen in the background includes the two standard slabs, of the white Derbyshire spar finish and of the dark Penmaenmawer granite chips.

(2) The floor of the main entrance lobby is completely covered with rubber fibre mats. The doors open outwards only, as required for purposes of escape. The outer door are glazed me al doors and can be held open by special cutches (see photo no. 17). The inner doors are of glazed wood and are controlled by overhead springs. For economy, no floor springs have been used in the building. This lobby forms the main entrance to the school and is intended to be used by the children; it is not to be made exclusive to staff and visitors, as is so often done.

MOE DEVELOPMENT WORK: WOKINGHAM



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PAINTING SPECIFICATIONS

External galvanized metalwork:

- coat mordant solution.
- coat galvanized steel primer.
- undercoat oil paint.
- I finishing coat gloss oil paint.

Internal metalwork:

ompletely outreard uter door y special of glazed

ol and is

- Priming by manufacturer
- I undercoat oil paint
 I finishing coat gloss oil paint.

Gypsum plaster wall panels:

- I coat oily primer
- l undercoat oil paint l finishing coat oil paint, gloss or semi-
- (additional undercoat for white)

Alternatively:

3 coats emulsion paint.

Vermiculite concrete ceiling panels:

2 coats water paint (sprayed).

CHALKBOARDS

Type "a." Polished Plate glass, sandblasted on face and painted on reverse.

Type "b." Hardboard painted on face:
1 coat wallboard primer

2 undercoats

1 coat chalkboard paint, eggshell finish.

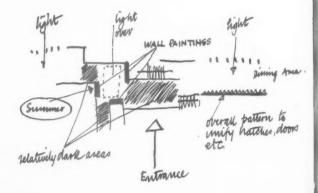
Type "c." 3/16-in special asbestos sheet;

colour grey, unpainted. The majority of the boards are of type "b." All the colours used were chosen from the "Archrome" (Munsell) range. (3) The entrance hall is combined with the enlarged circulation area leading to the hall and gymnasium, the space serving also as a dining room, separated from the entrance only by a screen of planting. The floor of this and some other circulation spaces is of studded rubber tiles—a pattern developed by the architects of the MOE, which, it is claimed, saves rubber and is both easy to clean and stays cleaner than other form of rubber floor. Some of the special light fittings, also designed by the architects in collaboration with the manufacturer, can be seen suspended from the lightweight vermiculite concrete ceiling panels. lightweight vermiculite concrete ceiling panels.



(4) Just inside the building there are to be, on the left, three wall decorations painted by Fred Millet. Two, inspired by the seasons (winter in browns and reds; summer in greens and yellows), are complete, and are seen in this illustration. They are painted in impasto and it is not expected that they will have to be renewed for a considerable period. Top lighting at this end of the entrance hall contributes to the sense of colour and lightness (see sketch on right), and accentuates the effect of the wall paintings, two of which form the ends to long circulation spaces.

MOE DEVELOPMENT WORK: WOKINGHAM







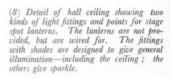
(5) Extreme left, the long inside wall of the dining area, containing the hatches to the kitchen. It is decorated with a large-scalt overall pattern in emulsion paint by Oliva Cox. Besides being gay, this unifes a large wall area which contains a number of doors and hatches. A tap for drinking water can be seen in the background. (6) Left, the aist to the assembly hall approached from the dining space. The ceiling panels (of vermiculite concrete, as used in most parts of the school) are here decorated most effectively in black and grey paint by Oliver Cox. This idea of painting large scale overall patterns by hand is one which the writers have not met before.

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(7) The prosenium curtains, designed by Gerald Holtom and Enid Everard, and purchased from the furniture allowance. The figures are Shakespearian characters and are executed in applique, enriched with beads and "gold" and silver" ornaments. The hall floor is of chipboard tiles treated with a plastic seal. These seem to provide an excellent floor, at a reasonable price, and of good appearance.





(9) The stage. The rear wall is of plaster panels painted putty colour (Munsell 5·OY. 8/2). The projecting studs conceal parts of the steel framework. The floor is of Seraya strip. At the far end a typical heater cabinet can be seen. The stage acts also as the circulation area to the gym and changing rooms.



(10) Storage space under the raised side aisles in the hall. One of the panels has been removed and the frames which make up the portable platform units can be seen. These frames which are collapsible, together with their canvas covered tops, are items of standard stage equipment.



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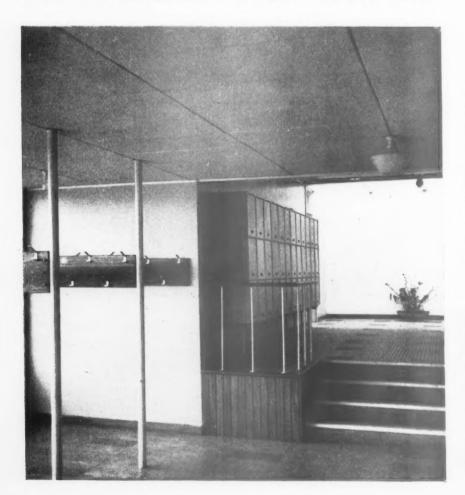




(11) Changing room. The racks in the background provide for the storage of each pupil's gymnasium clothing and towel. This was an early attempt at providing space for all the pupils' belongings; simpler methods are being

(12) "Run-through" showers of the type used for both boys and girls. One of the few places in the school where glazed wall tiles are used. The floor is of non-slip yellow stud tiles. A single thermostatically-controlled mixing value regulates the temperature of the water from the sprays. No separate footbaths are provided.

MOE DEVELOPMENT WORK: WOKINGHAM



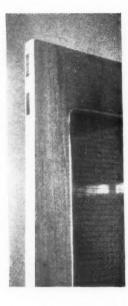
(13) Left, coat hanging in widened circulation space. An effective and simple arrangement, helped by the fact that shoes, if changed, are stored in pupils' lockers and not with the coats. Wellington boots, if used, will have to be hung from the coat pegs, which are 4 in. apart. A standard locker unit can be seen and the third mural will be painted on the wall in the background. The floor is of p.v.c. plastic tiles, the success of which is yet to be assessed. (14) Below, hardwood locker unit. Each locker is 12 in. wide, 12 in. deep and 17 in. high, and contains one shelf. The doors are arranged to open from the bottom and to slide partly into the locker over two rubber rollers at the top. The frames are of hardwood; the doors of plywood.



(15) corner glazed ing is

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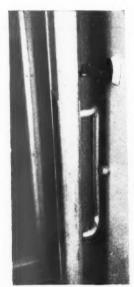
(15) Detail of top corner of typical internal glazed door. The glazing is of Georgian wired polished plate; the top rail is deeper than usual.



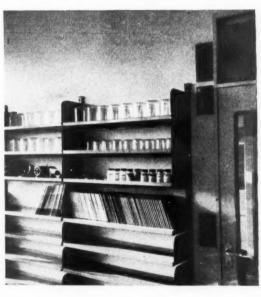
(18) The medical room; ordinary benching and patent shelving has been used. The room is large enough for the prescribed dimension required for eye testing to be obtained. The foor is of chipboard. The door is a standard type of flush door, veneered in hardwood and treated with plastic polish. The door furniture is of anodised aluminium.



(16) A proprietary door holder arranged to accommodate the pull handle and rubber buffer.



(19) Patent shelving in the science room. These are removable, adjustable and enable the wall at the back to be properly cleaned down when required. A set of controls typical of those in each room can be seen by the side of the door; they comprise circuit breakers, room thermostat and light switches.



(17) External door holder, made by manufacturers of the doors. It is designed to catch the bottom of the door itself, thereby eliminating the need for cabin hooks, which are difficult to fix and readily damaged, or any similar device.



(20) The benching is designed on the 40 in. module and is so arranged that it can form either a sink unit, an open bench or a cupboard unit. Standard leg, shelf, top, drawer and door components are assembled as required. Front legs and tops are in Sapele, and doors of \$\frac{1}{8}\cdot \text{in.} \text{ birch ply. There are no backs to the units and all the framing is very light, effecting a considerable saving of timber and expense. Approximately \$\xi\$, 12 of net cost per place has been spent on built-in furniture and fittings.



MOE DEVELOPMENT WORK: WOKINGHAM



(21) Staircase. Wreathed hardwood handrail. P.v.c. treads and nosings chosen for quietness and safety. Risers 6 in. Treads 10 in. The staircase was here not designed as part of the modular system; in later work, however, the Development Group have arranged for the staircases to conform to the module.

(22) Stacking chair with beech frame and elm seat, specially designed by David Medd and Oliver Cox to give schoolchildren a correct sitting, position and for truly vertical stacking. It is purhased out of the furniture estimates, which in this school have been largely administered by the architects. It would be a great advantage if this procedure were more commonly adopted.



(25) A "Crinothene" shade used in the staff rooms, o, similar design to the "Perspex" shade shown in photograph 23. Like the "Perspex" shade, it screens the lamp from direct vision has an unobstructed downward

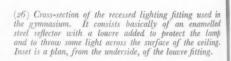
LIGHTING FITTINGS USED IN THE WOKINGHAM SCHOOL

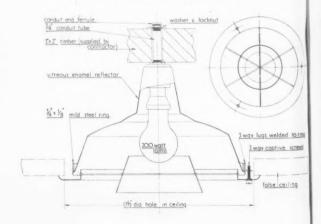


(23) Specially designed light fitting most commonly used in the school. It is simple in design and economical, but fulfils the requirements of shading the bulb from direct vision, and allows some of the light on to the ceiling, in addition to having an unobstructed downward throw. The shade is of "Perspex" specially treated to eliminate glare.



(24) A swivel spotlight, chosen for its adaptability and for its capacity to concentrate light in particular places. When used in conjunction with general lighting, it gives that extra sparkle without which no lighting scheme is complete. The fitting was designed to incorporate a recently marketed 75-watt silvered reflector lamp with a bayonet fixing.





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FLATS

in KENTISH TOWN, LONDON N.W.5

designed by DAVIES and ARNOLD

quantity surveyors C.E. BALL and PARTNERS

The flats illustrated below and on the three following pages have been built on two separate, but near-by sites, in Kentish Town, for the Borough of St. Pancras. Six terrace houses, Nos. 88-98, on the east side of Burghley Road had been destroyed by enemy action and it was decided to fill the gap with a block of seven flats. The block of six flats in Oakford Road also fill a gap formerly occupied by four terrace houses on the east side of the road.



The staircase block.

The Burghley Road flats from the north-west.

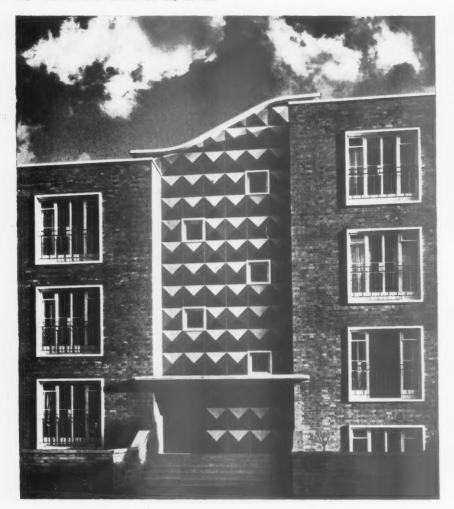


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ceiling





Left, the entrance and staircase block which is constructed of precast concrete blocks finished with a three-dimensional chequer-board pattern. Above, the top of the staircase block. The ceiling is painted deep red. Below, the garden facade and pram store.



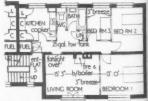
FLATS

in BURGHLEY ROAD,
KENTISH TOWN, N.W.5
designed by DAVIES and
ARNOLD

SITE.—The site is triangular in shape and allows the flats an approximately east-west aspect. All living rooms face Burghley Road and the majority of bedrooms face south over the small garden. Thirteen cherry trees have been planted on the west side of the site. A similar siting of the block has been made in Oakford Road, where existing trees have been retained on the east side and cherry trees have been planted along the road facade.

PLAN.—In both blocks there is a centrally-placed entrance hall and staircase, serving all the flats. In

Burghley Road advantage has been taken of the sloping site to provide an extra flat at the lower end of the block, and this gives a staggered section and access to each flat is from a half-landing. Lock-up pram stores and a laundry are provided for each block.



Part typical upper floor plan



Section A-A



Ground floor plan [Scale: 24" = 1' 0"]

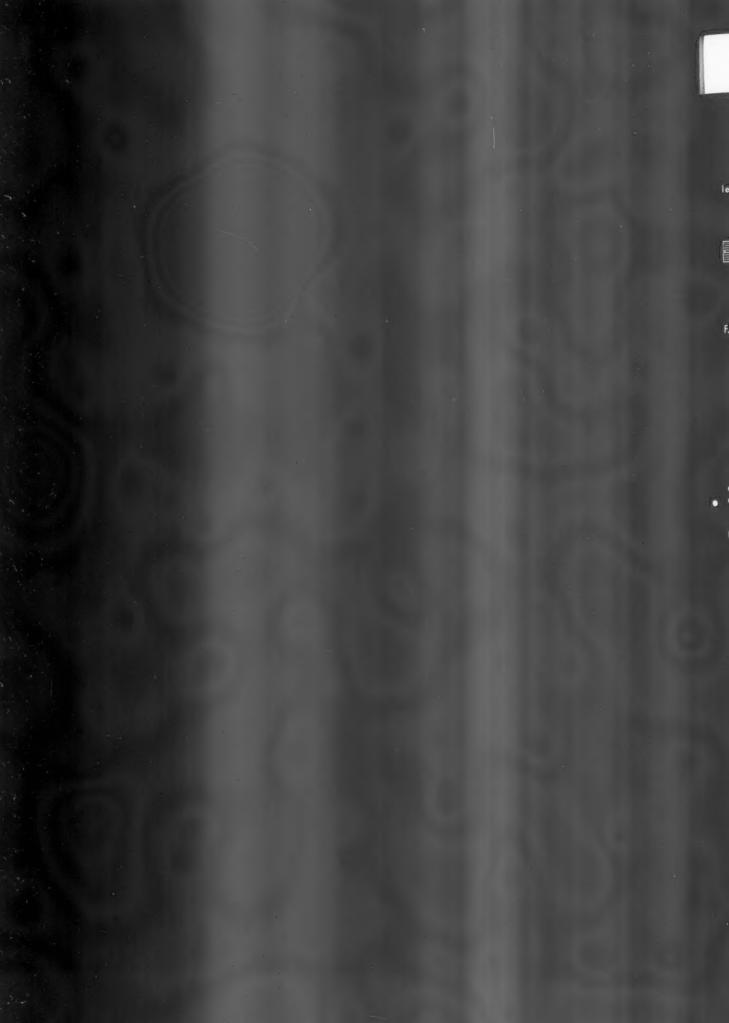
e block concrete ensional the top eiling is garden

of the lower is section

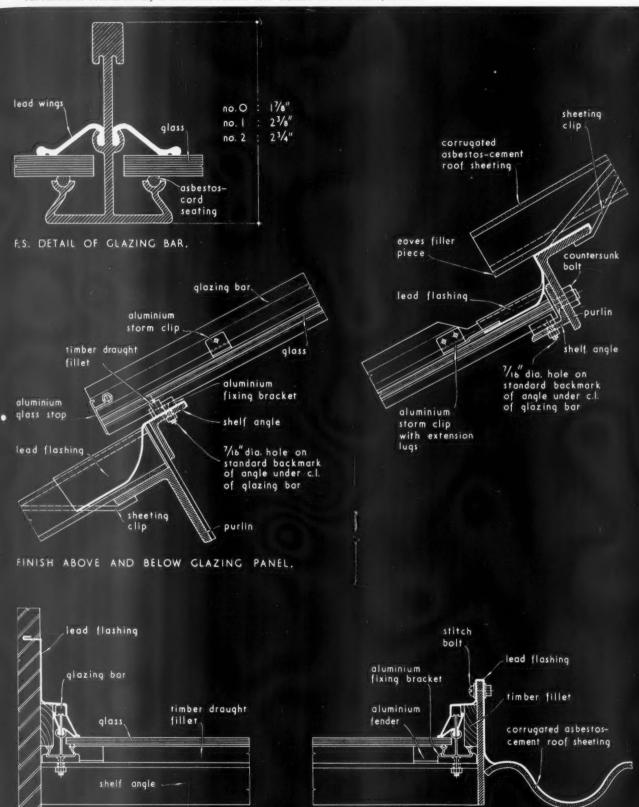
Lock-for each

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The Architects' Journal Library of Information Sheets 417. Editor: Cotterell Butler, A.R.I.B.A.



FINISH AT SIDE OF PANEL.

HEYWOOD'S PATENT GLAZING: ALUMINIUM ALLOY GLAZING BARS. Manufacturer: W. H. Heywood and Co. Ltd.

FINISH AT WALL.

24.M3 HEYWOOD'S PATENT GLAZING: ALUMINIUM ALLOY GLAZING BARS

This Sheet deals with Heywood's aluminium-alloy glazing bars and illustrates their application to steel roof structures. The drawings on the face show details of a glazed panel in a roof of normal pitch. Sheet 24.N3 deals with lead-clothed steel glazing bars and shows their use with a northlight roof. The principles of construction are the same for both types of glazing bar in all the examples. Sheet 24.J2 describes Heywood's standard lantern lights in both steel and aluminium alloy.

Glazing Bar

Material: The bars are of extruded aluminium alloy into which are fitted continuous lead glazing wings. Asbestos cord, held in grooves in the bar, provides a resilient seating for the glass.

Sizes: The following table gives the sizes of glazing bars and relevant data.

Section No	0	1	2	
Height	1 7 in.	23 in.	2¾ in.	
Width (excluding wings)	1½ in. 6 ft. 0 in.	1½ in.	1½ in. 11 ft. 6 in.	
Max. length obtainable		8 ft. 0 in.		
Wt. per sq. ft. of glazing*	3.82 lb.	3·89 lb.	3.95 lb.	

* This includes \(\frac{1}{4}\)-in. thick rough cast double-rolled or \(\frac{1}{4}\)-in. wired cast glass.

Centres: Bars should be spaced at 2 ft. 03 in. centres wherever possible for use with 2 ft. wide panes of

Glass stop: This is of aluminium alloy, bolted through the web of the bar,

Application to Roof of Normal Pitch

Lower purlin: A shelf angle is secured above the main purlin drilled on the standard backmark with one in. dia. hole to take the bottom fixing bracket for the glazing bar. Flashing is secured between the fixing brackets and the flange of the angle and is dressed down over the roof sheeting.

Top purlin: Construction here is similar to that previously described except that the shelf angle may be fixed direct to the purlin. Flashing is secured between the eaves filler piece of the roof sheeting and purlin and is dressed down over the glass.

Finish at wall or side of panel: The end glazing bar should be fixed so that its centre is about 1 in. away from the face of the wall or trimming member and the flashing secured and dressed down in the manner shown on the face of this Sheet.

Further Information

The manufacturer maintains a technical advisory department available to answer questions dealing with this subject generally.

Compiled from information supplied by:

W. H. Heywood & Co. Ltd.

Head Office: Bayhall Works, Huddersfield. Telephone: Huddersfield 6594 (5 lines). Telegrams: Glazing, Huddersfield.

London Office: 54, Victoria Street, S.W.1.

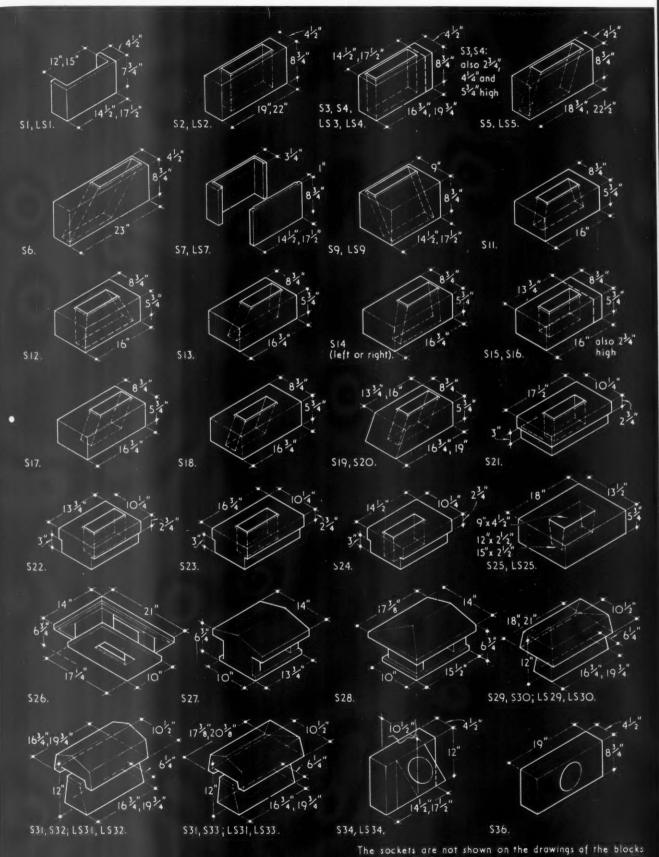
Telephone: Victoria 2994.

Branch Offices: Belfast, Birmingham, Bristol, Coventry, Dublin, Glasgow, Leicester, Liverpool, Manchester, Newcastle-on-Tyne, Not-tingham, Plymouth.

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30.B3 · NAUTILUS · FLUE BLOCKS 1 : SINGLE-FLUE TYPE

This Sheet is the first of a series dealing with Nautilus flue blocks. It describes the various blocks used for building up single flues. Sheet 30.B4 describes double flue blocks and Sheet 30.B5 shows typical arrangements for both types and gives notes on their installation generally.

Nautilus blocks conform to B.S.1289:1945 Pre-cast concrete flue blocks for gas fires and ventilation.

Design and Construction

The blocks are made from dense, matured concrete, the composition of which has been carefully tested to withstand heat and weather conditions. They are designed to bond in with brickwork of four courses to 1 ft. An important feature of the blocks is the spigot-and-socket joint which enables them to be laid rapidly and easily and prevents mortar being squeezed into the flueway where it would reduce the cross-sectional area of the flue The blocks can be contained in the thickness of a wall with little or no projection, so that they may be placed in almost any position without affecting the floor space or cubic capacity of a room.

Flue Sizes

Two flue sizes are obtainable, 12 in. by $2\frac{1}{2}$ in. (S) and 15 in. by $2\frac{1}{2}$ in. (LS). The 12-in. by $2\frac{1}{2}$ -in. flue is converted to 9 in. by $3\frac{1}{2}$ in. at stack level, except when it is used with the "old type" terminal described below. It is similarly converted to 9 in. by $4\frac{1}{2}$ in. where the flue is taken into a brick stack. The 15-in. by $2\frac{1}{2}$ -in. flue is used with the "old type" terminal or may be converted to 9 in. by $4\frac{1}{2}$ in. where the flue is taken into a brick stack.

Function of Blocks

S1, LS1—building-in sets: Provide a recess for the gas fire.

S2, LS2—cover blocks: This type of block forms a lintel, taking some of the weight of the flue off the building-in set.

S3, $L\bar{S}3$ —straight blocks: The standard blocks which allow $2\frac{1}{4}$ -in. bond with brickwork.

S4, LS4—closer blocks: Used to maintain bond and to provide a straight face to any exposed blocks. S5 (65°), LS5 (60°)—raking blocks: Four courses of these will carry a flue clear of one immediately above.

S6 (47°)—raking block: Two courses will carry a flue clear of one above it. This block should only be used when it is not possible to employ the S.5 block

S7, LS7—coring blocks: Used immediately above or below groups of raking blocks to allow flue to be cleaned on completion. Where flue is installed solely as an air duct this block may be used at any point where an outlet is required, the loose face of the block being replaced by a metal grille.

S8, S9, S10—offset blocks: S8 is 14½ in long by 6¾ in. deep by 8¾ in. high; S9 is illustrated on the face of the Sheet; S10 is 14½ in. long by 11 in. deep by 8¾ in. high. These blocks are used to set the flue forward or back 2¼ in., 4½ in. and 6½ in., respectively. LS9—offset block: Provides a 4½-in. offset for the larger flue.

S11, S12, S13, S14—conversion blocks: Used immediately below stack to convert the 12-in. by 24-in, flue to 9 in, by 34 in

 $2\frac{1}{2}$ -in. flue to 9 in. by $3\frac{1}{2}$ in. S15—stack block: This provides a stack for a single flue and is also used with S16 blocks for stacks of two or more flues.

S16—continuation stack block: Used for maintaining bond and straight edges in stacks.

S17, S18, S19, S20—raking stack blocks: Used for gathering flues together in stacks after conversion to 9 in, by 34 in.

to 9 in. by $3\frac{1}{2}$ in. S21, S22, S23, S24—string course blocks: Used below terminals to provide a drip.

S25, LS25—single corbel blocks: This converts the 12-in. or 15-in. by $2\frac{1}{2}$ -in. flue to 9 in. by $4\frac{1}{2}$ in. for use with a brick stack.

S26—single terminal: Used at the top of a single flue.

S27—middle terminal: The intermediate terminal in a stack of three or more flues.

a stack of three of more flies. \$28—end terminal: The end terminal in a stack of two or more flues.

S29, S30; LS29, LS30—single terminals (old type): For use on a single flue. S29 and LS29 also used at one end of a stack with caps S33 and LS33

respectively (see drawing on Sheet 30.B5). S31, S32; LS31, LS32—middle terminals (old type): The intermediate terminal in a stack of three or more flues.

S31, S33; LS31, LS33—end terminals (old type): Used at one end of a stack (see drawing on Sheet 30 B5)

S34, LS34 adaptor blocks: For use above ceiling level in pitched roofs where no stack is contemplated. The 45° outlet is socketed to receive a 6-in. internal diameter asbestos-cement trunking, which is carried through the roof space to a ventilating ridge tile. S36—adaptor block: Similar to S34 but with the outlet in the side of the block.

Applications

Nautilus blocks with a 12-in. flue may be used for ventilating any gas fire with a rating not exceeding 15,000 B.Th.U. per hour and those with a 15-in. flue where the rating does not exceed 20,000 B.Th.U. per hour. They may also be used for providing a ventilating duct to a room where no flue exists and for constructing hot air ducts to convey warmth from a solid fuel appliance to rooms remote from it. The blocks should on no account be used with wash boilers or any type of hot water heater, or for providing main flues to any solid fuel appliance.

Compiled from information supplied by:

The Marley Tile Company, Limited

Head Office: London Road, Riverhead, Sevenoaks, Kent.

Telephone: Sevenoaks 2251 (8 lines).

Branch Offices: Aveley, Bedfont, Bridgend, Burton-on-Trent, Delamere, Glasgow, Harrietsham, Leighton Buzzard, Poole, Storrington.



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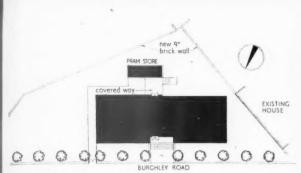
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Site plan of Burghley Road flats

CONSTRUCTION.—External walls are of 13½-in. load-bearing cavity brickwork. Floors and roofs are of 11 patent precast concrete construction.

FINISHES.—Externally, walls are of light-coloured facing bricks except for the recessed staircase block of the Burghley Road flats. This part of the facade is constructed of precast concrete blocks faced with a chequer board pattern in three dimensions. The finish is cement paint, with two tones of grey on the upper and lower surfaces and red on each side. The centre panel on the east facade of the Oakford Road flats is finished in broken white cement paint. On the road facade facing Burghley

Below, the west facade and entrance to the flats in Oakford Road.



Above, the entrance hall of the Burghley Road flats, with stairs leading to flats in the south-west block.

FLATS

in OAKFORD ROAD, KENTISH TOWN, N.W.5 designed by DAVIES and ARNOLD

Road the windows to living rooms and half-landings are contained in precast concrete frames. At the time these flats were planned projecting balconies were not permitted by MOHLG and it was not considered practicable to recess balconies into living rooms. The compromise solution adopted consisted of lowering the aprons of the windows to allow full-length opening lights behind iron railings. Wrought-iron balcony railings and staircase balustrades are painted deep red and grey. Internally, the hall and staircase walls are of fair faced brickwork and walls of flats are finished with emulsion paint.

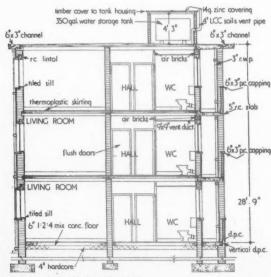




Above, the road facade of the Oakford Road flats from the north. Above right, the garden facade. The centre panel is finished with white cement paint.

FLATS

in OAKFORD ROAD, KENTISH TOWN, N.W.5 designed by DAVIES and ARNOLD



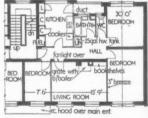
Section A-A [Scale: 12" = 1'0"]



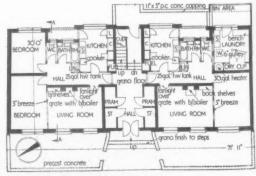
Floors are granolithic to staircases and halls and asphalt tiles elsewhere. Kitchens are fitted with built-in EJMA units and have wire mesh shelves beneath the stainless-steel sinks for pots and pans.

SERVICES.—Domestic hot water is provided by means of a grate with a back-boiler in each living room, connected to a storage tank in the linen cupboard. Provision has been made so that an electric immersion heater may be fitted for summer use. Each bedroom has an electric power point. All service and soil pipes are run internally in ducts which have removable panels.

The contract price for both blocks was £29,441. The general contractors were The Borough of St. Pancras Building Department. For subcontractors, see page 688.



Part typical upper floor plan



Ground floor plan [Scala: 4" = 1' 0"]

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TECHNICAL SECTION

Possibly the most important contributions that prefabrication can make towards more economical building in this country are those of a secondary nature. Many recently completed houses of more or less traditional construction show the influence of techniques developed by the prefabricated buildings industry; e.g., the use of precast concrete facing slabs; light, timber-framed in-fill panels between load-bearing cross walls (see houses illustrated on page 667); dry, storey-height inner wall linings and partitions; and various forms of ceiling panels in lieu of plaster.

It would be a good thing if, at this stage, a study could be made of the various non-traditional techniques that have been used since the war and an assessment made of the benefits they have to offer, either directly or by partial adaptation into more traditional construction.

After the first world war there was a similar outburst of non-traditional construction but, as soon as conditions allowed, the industry returned to its old methods and practically nothing of value was carried forward as a result of the experiments in new techniques, although there must have been some lessons to be learnt. This time the work has been greater in volume and far better directed—in no small measure because of the valuable work of the Burt Committee in the early stages. If a similar committee could now report on the lessons learnt it would be most valuable. If such a committee cannot be formed, the subject might be a good one for the programme of study by one of the next group of RIBA Bursary winners.

This week's special article

17 CONSTRUCTION: GENERAL prefabrication

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

Last week, Editor No. 24 described the various prefabricated structures that were on show at the BIF. In the short article below, he considers the application of these techniques in this country, mentions some of the snags and deals briefly with the question of costs.

Most of the prefabricated systems of construction which were on show at the BIF, Earl's Court, fall into two categories, dependent mainly on the market which the manufacturer is primarily aiming at. Generally speaking, if the buildings are intended for places where there is plenty of cheap labour and a supply of local materials for walling (materials, that is, with compressive but no tensile strength), e.g., inhabited areas of Africa

and the Middle East, there is a good argument for exporting only the frame and roof structure, as with "Arcon" structures, or simply the idea and supervisory staff, as with the "Reema" system. On the other hand, for countries where labour is expensive or scarce, e.g., Canada and the uninhabited parts of the Middle East—the oilfields—respectively, or where the need for buildings is only temporary, e.g., homes and offices for

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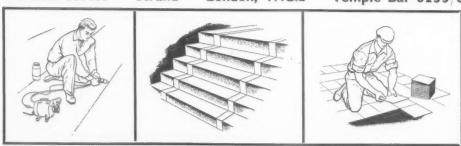
At this hospital for infectious diseases the joints of the roll flooring have been sealed by a special process and the material coved up the walls, eliminating the danger of bacteria collecting. Acid and oil proof "ALTRO" is an extraordinary material suitable for practically any floor. Extremely pliable it can be laid as a non-slip carpet on stairways. Write to me for Adamite Bulletin No. I with a copy of official tests.

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construction workers on civil engineering projects, a high degree of prefabrication, a minimum of site work and, in the last case, full de-mountability and 100 per cent. recovery are desirable features.

SITE COSTS

The main factor indicating the degree of prefabrication is the proportion between the f.o.b. cost and the site labour (and materials) cost. At one end of the scale there is the "New Departure" house, for which virtually no site work is required, but, since it is assembled in the factory, this type of prefab is hardly suitable for export, unless only the components were exported, a factory being set up in the importing country at which they could be assembled (as has been done with cars and aeroplanes).

The "Mod X" and "Punt" systems,

The "Mod X" and "Punt" systems, with their roofs of prefabricated stressed skin panels, require very little site labour, erection costs (on a prepared site slab) representing as little as 10-15

per cent. of total costs.

Some of the houses with timber loadbearing panels and more or less traditional roof construction require more site labour; site costs for the "Neata" house, for example, represent between 35 and 45 per cent. of the total cost.

Firms that are as interested in the home market as in exports are not particularly anxious to reduce unduly site labour. The maintenance of full employment in the building industry is by no means assured, and the trades unions may now be more concerned over attempts to eliminate site labour than they were in the immediate postwar years.

APPLICATIONS IN THIS COUNTRY

Most of the firms that exhibited houses at the BIF seem to realize that their future depends mainly on exports; they are, nevertheless, keenly interested in the home market too. They have been surprised, but pleased, by the large number of enquiries they have received from people desiring to build houses in this country. These have been mostly from "one-off" customers. but six such sales equal about £10,000—no mean sum. Moreover, many of the firms appreciate that small, but steady, home sales can even out the vicissitudes of overseas markets.

Will these types of prefabricated house ever find a large market in this country? This will depend, partly, on the development of 2-storey houses. There is a limited demand for bungalows and local authorities seldom build them. Only four of the firms that exhibited at the BIF make 2-storey houses—"Riley-Newsum," "Reema," "Trusteel" and "Scotwood—the latter are supplying houses for LCC outcounty estates, presumably at a price comparable to that of traditional houses. However, several firms are developing

2-storey versions of their houses and, doubtless, more will be heard of these in the near future.

PRICES

Many of the houses on show at the BIF are about the same price or, if anything, slightly cheaper than "one-off" traditional houses (around 45s. per sq. ft.), but, of course, the price of traditional building could be greatly reduced by increased site efficiency and the greater use of mechanical aids. Whether the prefab. firms will be able, as their turnover increases, to reduce their "quantity" price to that of the typical local authority house remains to be seen.

In general, the houses with softwood framing are the cheapest, but, although timber was the traditional house-building material in some parts of the country, there is today a good deal of prejudice against its use for this purpose, largely arising from fear of fire hazard. It is interesting to note, therefore, that the Burt Committee* on house construction did not consider that " any special personal hazard arises in timber houses unless internal linings of inflammable materials are used—e.g., untreated fibreboard." (Certain requirements concerning cubic capacity and distance from boundaries must be obeyed and the houses must not be in terraces.) There are, of course, the Government restrictions on the use of softwood, but the supply position has improved, and one of the firms exhibiting a timber house (the "Scotia") claim to be able, by using a certain amount of

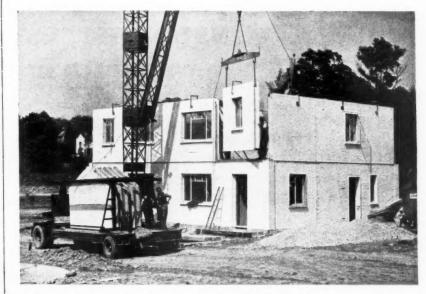
* House Construction. Post-war Building Study No. 1. (HMSO, 1944, 2s.)

chipboard and a small quantity of hardwood, to cut down the softwood content to below 1.6 standards per house.

Houses with aluminium frames have suffered from a 100 per cent. increase in the cost of aluminium that has taken place during the last three years, with the result that the aluminium extrusions may now represent as much as 20 per cent. of the total cost of the house. But dies for the extrusions are comparatively cheap, so that the firms that use aluminium are able, without large orders or heavy capital expenditure, to make use of a larger number of different components than firms that use lightgauge steel sections-with a corresponding increase in the flexibility of their systems of construction.

MAINTENANCE COSTS

Most of these prefabricated houses have an estimated life of about 60 years-the guaranteed life of a brick or concrete house. But, as we all know, the brick house, if properly built, will last easily twice this length of time. However, this is a doubtful advantage and, on this score, there should be little criticism of the prefabs. It would appear that maintenance costs would be high, particularly for the houses that require fairly frequent painting externally. (Here, the houses faced with cedar boarding-the "Neata" and the "Punt"—have an advantage.) It is interesting to note, however, that the report of the Burt Committee (quoted above) stated that "the maintenance costs [of timber houses built between the wars] have generally been the same as those for brick houses."



The "Reema" system of building; a typical pair of houses under construction. This is a form of development (structural precast concrete panels) suited equally to this country (where, so far, concrete prefabs have proved more successful than light forms of construction) or for export (to areas where suitable labour and materials are available). All that is exported is the idea, the design and the supervisory staff.



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A high light level was required for this interior, and it has been achieved by the use of large panels of "INSULIGHT" Hollow Glass Blocks. They will have a far longer life than ordinary window frames of comparable size, which tend to deteriorate under the effect of the acid fumes in the air. Their

good thermal insulation properties, and the fact that they are easy to clean are other important considerations.

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INFORMATION CENTRE

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

23.174 heating and ventilation DOMESTIC HEATING

Efficiency of Domestic Solid Fuel Appliances. W. F. B. Shaw. (Journal of RSI. Jan., 1953. pp. 1-10.)

Specialized paper dealing with different concepts of the "efficiency" of house

There does not yet appear to be general agreement on a definition of the efficiency of an appliance which would enable a purchaser to be sure of choosing the "best" model; the discussion between the experts continues.

23.175 heating and ventilation

CEILING PANEL HEATING

Heated Ceilings and Comfort. F. A. Chrenko. (Journal of IHVE. Jan., 1953. pp. 375-396.)

There can be serious discomfort due to overheating of the head by ceiling panels in rooms below about 10 ft. high, unless the panels are properly arranged; design data for this purpose are given.

Laboratory studies of the discomfort experienced by the occupants of a test room in relation to the size, temperature and distribution of heating panels at different heights has enabled tables of maximum desirable surface temperature to be given for ceiling heating panels. Narrow strip panels are preferable on rooms with low ceilings; in a room 8 ft. high, a panel 6 ft. by 9 ft. should not exceed 87° F., but in the same room, a panel 3 ft. by 18 ft. could have a surface temperature of 100° F.

The results obtained seem to be in reasonable accord with good current practice in this country, but special attention should be paid to this problem whenever ceiling heating is to be used for rooms with low ceilings.

23.176 heating and ventilation

DISTRICT HEATING

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Whitemoss, East Kilbride District Heating Scheme. L. A. M. Fraser, J. C. Weston, I. W. L. Hendry. (Journal of IHVE. Feb., 1953. pp. 445-456.)

A useful factual report on one of the district heating schemes serving a housing estate.

The average coal consumption of nearly 7 tons per year per house, in addition to one or two tons which the tenants burnt in their open fires, explains why this type of district heating is losing popularity. If this performance is typical of the other schemes, there cannot be much future in thermal

district heating of this type. The current costs to the tenants on this scheme, including the district heating charges, cooking, lighting and "topping-up," are between 18s. and 19s. per week.

24.163 lighting COLOUR TERMS

Glossary of Colour Terms Used in Science and Industry. BS 1611:1953 (British Standards Institution, 3s. 6d.)

List of 105 terms referring to colour—each defined—some at length, excluding those used only in everyday speech or having æsthetic associations. List arranged in logical sequence and terms grouped under 6 headings: general, methods of describing colours and colour differences (the largest section), colorimetry, colour reproduction, vision, types of colour vision. Terms also listed alphabetically. Essential reference for understanding highly technical articles on colour and useful as supplement to the MOE Building Bulletin on colour.

QUESTIONS & ANSWERS

Questions to the Technical Editor are answered confidentially and free of charge.

3069 FLAKING OF BRICKWORK

A house built in 1937 with 9 in, external walls has rustic facings right down to ground level. The surface of these between ground and the DPC is flaking off, chiefly on the North and East sides—probably due to damp and frost.

The house is built on clay and the fault is recurred in the district. List fall there were

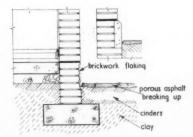
The house is built on clay and the fault is common in the district. It is felt that cutting out and replacing with hard impervious bricks would be costly. The usual treatment is convent rendering.

is cement rendering.

Your suggestions will be much appreciated.

A It is now generally recognised that a highly frost-resistant brick is required for walls between the ground and damp-course level. The question is dealt with in the appropriate codes of practice and the case you cite emphasises the fact that a brick which is perfectly satisfactory for facing work above the dampcourse will not necessarily be good enough for work below the dampcourse.

The remedy for a defect of this kind is not easy. The deterioration of the brick is



Sketch showing problem and suggested solution.

due to the action of frost or salts on the section of wall which is more or less permanently damp due to the capillary rise of ground moisture. A rendering would be very liable to crack and fall away, since, by definition, the brickwork will be flaky and in no condition to provide the strong back-ground which a rendering needs. A simple alternative would be to cut the bricks well back, say to a depth of 1 or $1\frac{1}{2}$ in., raking out the joints fairly deeply to provide a key, and to cast a dwarf concrete wall in front of the brickwork, using some simple shuttering. The dwarf concrete wall should not be less than 2 in. thick and would be better if it were 3 in. thick. It could be weathered at the top from a point immediately below the dampcourse. In this way you would obtain a self-supporting, protective wall which would, itself, be resistant and would protect the underlying brickwork.



18.G1, REFERENCE BACK.

Readers are asked to note the following revisions and to amend their copies of the Information Sheet in question: Delete "6 in. by 6 in." under main heading "Sizes."

Under heading "Wood sub-floors" delete "When plywood or hardboard are unobtainable." The sentence should now read: "It is reasonably safe to fix Accotile over an asphalt saturated paper felt underlay. . ." In the first part of the last paragraph the word "underlay" should be replaced by "overall screed." In the heading "Non-absorbent sub-floors" the word "tile" should read "quarry tile."

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).

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Departure Building at London Airport. Cheecolite used on roof.

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THE INDUSTRY

From the Industry this week, Brian Grant reports on two uses for rubber in building—flexible doors and antivibration mountings for machinery—a new range of contemporary lighting fittings and a booklet on washing fountains.

FLEXIBLE DOORS

Demonstrated in model form at the BIF were a pair of doors made of flexible rubber on a tubular supporting frame. They are intended for industrial jobs or for use in public buildings, the point being that people wheeling trollies or driving mechanical trucks can push straight through the doors, which automatically close behind them. The doors are of the normal swing type, with either one or two panels, swinging either one or both ways. The panelling is of canvas reinforced rubber sheet, with a standard thickness of $\hat{\tau}_{10}^{6}$ in... and in the two-panel doors they overlap at the centre by an inch or so as a draught precaution.

The panelling is supported on a frame of tubular steel shaped like an inverted L with the vertical and horizontal members braced at the angle by a triangular plate. The vertical tube is pivoted top and bottom and the door return spring is enclosed within it, while the horizontal tube acts as a support for the rubber sheeting. There is a rectangular "Perspex" observation window set in each door, slightly canted (see illustration) so that neither it nor the door will be distorted when the panel is flexed in opening. The total weight is less than an ordinary wooden door, so that it can be opened without difficulty, while hands would not be hurt if accidentally trapped between the panels. Rubber, in the thickness used, is quite flexible and will bear only lightly against the vehicle or its load, certainly not hard enough to do any damage, while the doors will bend beyond the right angle even if they are set in a deep reveal. The doors are the result of close co-operation between the Dunlop Rubber Co. and the makers. (William Newman & Sons, Ltd., Hospital Street, Birmingham, 19.)

ANTI-VIBRATION MOUNTINGS

Further uses for rubber in the factory are described in a leaflet from Dunlop Special

Products Ltd., dealing with rubber carpet mountings for the insulation of all types of machinery. For relatively small pieces of machinery, or for such things as circulating pumps in a central heating system, it is often quite satisfactory to incorporate rubber bushings in the mountings, but with heavy machinery, where the dynamic forces may be large, it is often useful to consider the foundation block as being integral with the machine, and to insulate the entire mass, the inertia of the foundation block helping to restrict the movement.

restrict the movement.

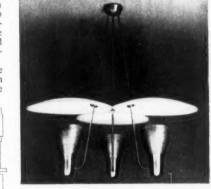
The rubber carpet is produced in two types—studded and ribbed. The studded type consists of a flat rubber mat with circular studs on both faces, the studs being so spaced that any stud on one side is centred in relation to the four studs on the other face, the effect being to produce a flexible beam. The ribbed type works in compression and consists of a flat mat with ribs on one side only. Both mats are produced in various grades, with different degrees of stiffness, the hardest compound giving ten times the stiffness of the softest. Both types are designed for a maximum deflection of ½ in. under full load, and when applied in a single layer will accommodate frequencies above 800 cycles per minute. Frequencies beyond this range can be insulated with 2 or even 3 layers. This type of insulation is intended not only for use with such things as power presses or generators (to prevent their vibrations from being transmitted to the structure), but also for the protection of accurate machines like roll grinders or jig borers against vibrations produced by other machines.

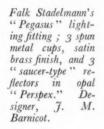
No particular troubles are likely to arise

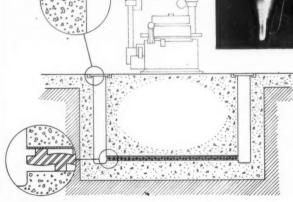
No particular troubles are likely to arise on the site. The pit to hold the foundation block is excavated and concreted in the usual way, and the mats are laid on the bottom and solutioned to the sides. With the studded mats, sheets of light metal or wood are laid over the exposed studs and sealed with rubberized canvas strips to form a watertight box into which the concrete can be poured. With the ribbed sheets, it is only necessary to seal the joints between mats. When isolating equipment against surrounding vibrations it may often be economic to float the base of the foundation block only, leaving an air gap round the sides. Dunlop's maintain a staff of technicians to prepare detailed specifications and visit sites if required. (Dunlop Special Products Ltd., Engineering Components Division, Fort Dunlop, Birmingham, 24.)

LIGHTING FITTINGS

It is unfortunately true that there are not very many showrooms in this country where the architect can find a pleasing selection of lighting fittings of good contemporary design, and one may, therefore, welcome the fact that Falk Stadelmann, in their West End showrooms, now carry quite a considerable range. Most of these, one of which is illustrated below, have been designed by J. M. Barnicot, M.S.I.A., and a number of them are quite reasonably priced.



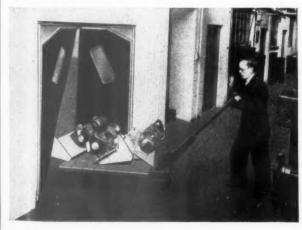






WASHING FOUNTAINS

A new booklet from W. E. Farrer, Ltd., shows a remarkably full range of washing fountains and appropriate fittings. The firm produces these in cast iron with an acid-resisting enamel finish, in aluminium (anodized or plain), stainless steel, fireclay and terrazzo. The sprays can be controlled by treadle or tap, with water supply from below or above, and the manufacturers seem to have thought of every conceivable requirement for soap dispensers and water control. The fountains are sold under the trade names of "Quickspray" and "Silvaspray" and, while most of the designs are circular types for mounting against a wall with a splash back. A useful booklet which provides as much information as any architect is likely to want. (William E. Farrer, Ltd., Crown Works, Welby Road, Hall Green, Birmingham, 28.)



Buildings Illustrated

MOE Development Work: Wokingham. (Pages 671-678.) Firms whose products are described and/or illustrated (firms whose products were mentioned in previous articles in the series were listed in the JOURNAL for Jan. 8): Floors, rubber tiles and stair nosings, Brynmawr Rubber Co. Ltd.; p.v.c. nosings, Brynmawr Rubber Co. Ltd.; p.v.c. tiles, Phœnix Rubber Co. Ltd.; chipboard tiles, "Weyroc." The Airscrew and Jicwood Ltd.; wall and floor tiles to showers, Carter & Co. Ltd.; quarry tiles, J. C. Edwards (Ruabon) Ltd.; Seraya strip, Hollis Bros. Ltd. Fittings, etc., concrete tubs, Liverpool Artificial Stone Co.; flush doors, Leaderflush Ltd.; clocks, Baume & Co.; "Typrod" mats, Tyre Products Ltd.; shelving, Libraco Ltd.; door furniture, James Gibbons Ltd.; door springs, Forson Design & Engineering Co.; external holding back catches, Hills Co.: external holding back catches, Hills (West Bromwich) Ltd.; shower fittings, Adamsez, Ltd.; changing room fittings and staircase metalwork, Light Structures & Casements Ltd.; pin-up boards (medium hardboard), Sundeala Board Co. Ltd. Joinery, all benches, Walter Lawrence & Son Ltd.; lockers and "Stackback" chairs, George M. Hammer & Co. Ltd.; tables, Kingfisher Ltd. Light fittings, "Percon," Kingñsher Ltd. Light fittings, "Percon," Hartley Electromotives Ltd.; boost lights and gymnasium light fittings, G.E.C. Ltd.; staff room light fittings, Bushell & Forward, Paints, R. Gay & Co. and Docker Brothers. Wall decorations, entrance hall, 3 wall paintings, Fred Millet; wall and ceiling decorations in dining space and assembly hall, Oliver Cox: Proseenium curtains, Gerald Holtom and Enid Everard, Planting, Neale Bros. Special asbestos sheeting, G. R. Spekere & Co. Ltd. Plastic polish, Bourne Plastic Floor Dressings & Floor Treatments Plastic Floor Dressings & Floor Treatments Ltd.

Flats at 88-98, Burghley Road, and 41-47, Oakford Road, Kentish Town, London, N.W.5, for the Metropolitan Borough of St. Pancras. (Pages 679-682.) Architect:

Davies & Arnold; Quantity Surveyors: C. E. Ball & Partners; General Contractor: Metropolitan Borough of St. Pancras Building Dept.; Sub-contractors: asphalt, H. V. Smith & Co. Ltd.; reinforced concrete, Triad Smith & Co. Ltd.; reinforced concrete, Triad Floors Ltd.; bricks (Stewartby light facings), London Brick Co. Ltd.; artificial stone, Enfield Stone Co. Ltd.; patent glazing, Lenscrete Ltd.; patent flooring, Armstrong Cork Co. Ltd.; electric wiring, Barlow & Young Ltd.; plumbing, Alan Milne Ltd.; door furniture, sanitary fittings, W. N. Froy & Sons Ltd.; casements, Crittall Manufacturing Co. Ltd.; plaster Pools Granolithic & Plaster Co. Ltd.; plaster, Pools Granolithic & Plastering Co. Ltd.; metalwork (balustrades and handrails), C. E. Welstead Ltd.; kitchen fitments, Jayanbee Joinery Ltd.

Announcements

Josias C. Beare, A.R.I.B.A., has retired from the firm of Beare & Croydon, A./A.R.I.B.A., ohartered architects, 42. Devon Square. Newton Abbot, Devon. The practice will be continued under the present name and at the same address by the remaining partner, Frederick W. T. Croydon, A.R.I.B.A.

The same address by the Tellianning Partiel? Frederick W. T. Croydon, A.R.I.B.A.

Samuel Morrison, A.R.I.B.A., has taken into partnership G. E. Grey, A.A.DIPL., A.R.I.B.A., and W. J. Farmer, DIP. ARCH. (NOTTM.), A.R.I.B.A. The practice will continue at Derwent House, Full Street, Derby, under the style of Samuel Morrison & Partners.

Arthur Hallam, DIP. ARCH. (L'POOL), A.R.I.B.A., until recently chief assistant with Willink & Dod, has begun private practice at 72A, Rodney Street, Liverpool I. He is also the consultant associate of James V. T. Scott, DIP. ARCH. (L'POOL), A.R.I.B.A., DIP. T.P. (EDIN.), A.M.T.P.I., of Belfast.

A. J. Saise, A.R.I.B.A., and N. W. Curtis, L.R.I.B.A., are now in practice at 1, Duke Street, Manchester Square, London, W.I (Tel: Welbeck 7744), where they will be pleased to receive trade catalogues, etc.

pleased to receive trade catalogues, etc. Arthur Lindsay, A.S.T.C.(ARCH.)., A.R.I.B.A. former chief assistant to Naylor, Sale & Widdows, of Derby, has joined the Gold Coast Housing Department as assistant engineer. His address will be c/o Director of Housing. The Secretariat, Accra, Gold Housing, The Secretariat, Accra, Gold Coast, where he will be pleased to receive trade catalogues, etc.

Trade catalogues, etc.
J. H. Tucker & Co. Ltd. have appointed
Walter S. Mercer, 20, Bedford Street, Belfast, as their agent for Northern Ireland, in
succession to A. M. Wedderburn. Mr.
Mercer will take the earliest opportunity of calling on all trade houses in this area. Tel: Belfast 21424/5.

R. J. Sparrow and F. S. Clater, A. /A.R.I.B.A., have opened an office at 39, Cliff Road, Dovercourt (Harwich), and will be pleased to receive trade catalogues, etc.

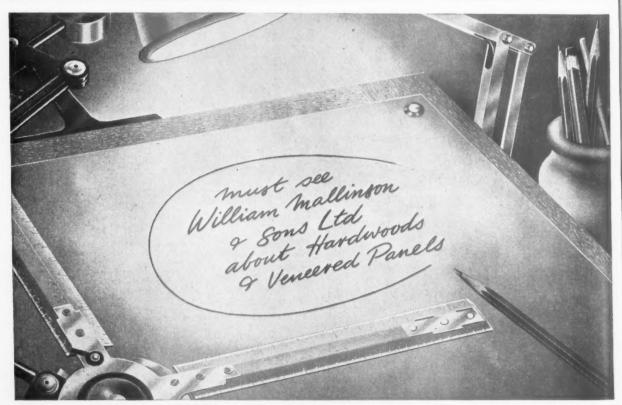
orrection

The design of a building in Above Bar Street, Southampton, illustrated on page 500 in the issue of April 16, was attributed to Bernard H. Dale & Partners. This firm was responsible only for the design of Scullards

responsible only for the design of Scullards Restaurant, which is part of the building illustrated. The co-ordinating architects for the external design of the whole building were Ellis, Clarke & Gallannaugh.

Laurence Wright was responsible for the drawing of the Printing Works, Langdon Road, Debden, which is on view at the Royal Academy and was reproduced in our issue for May 8. We attributed it to T. J. Rendle. The Fenybridge "B" Generating Station was drawn by G. C. Bodgener, not W. R. Haden. W. R. Haden.

Dowsett Engineering Construction Ltd. were the general contractors for the pre-fabricated timber school at Harold Hill, Romford, Essex, illustrated in the JOURNAL for April 9. Thermo Insulated Units Ltd. were responsible for the supply of prefabricated components. We stated that they were the general contractors.



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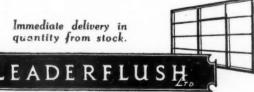


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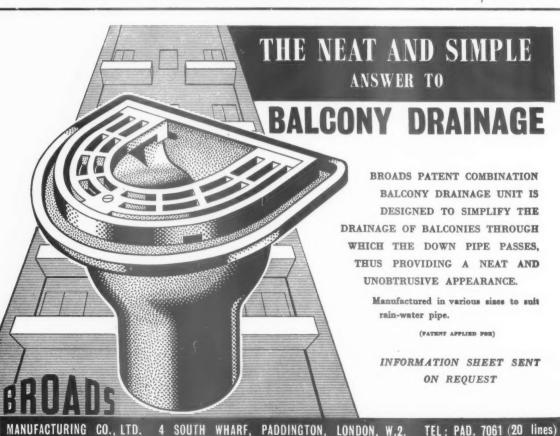
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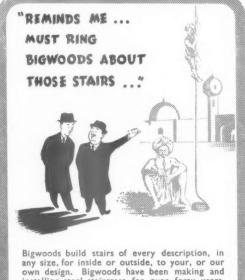
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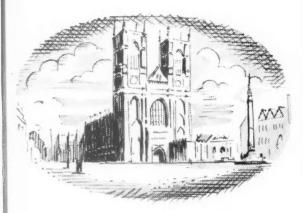
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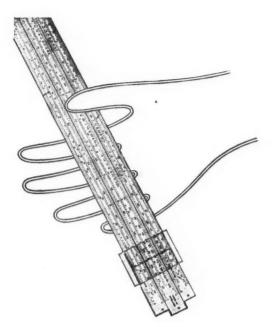
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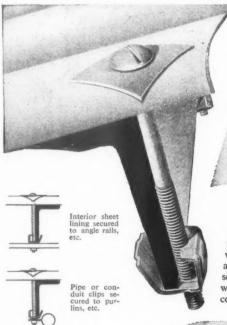
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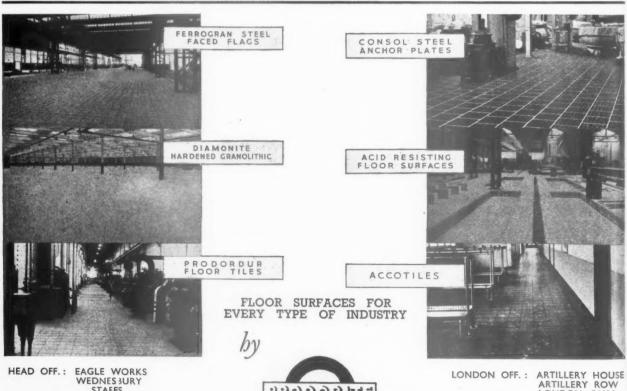
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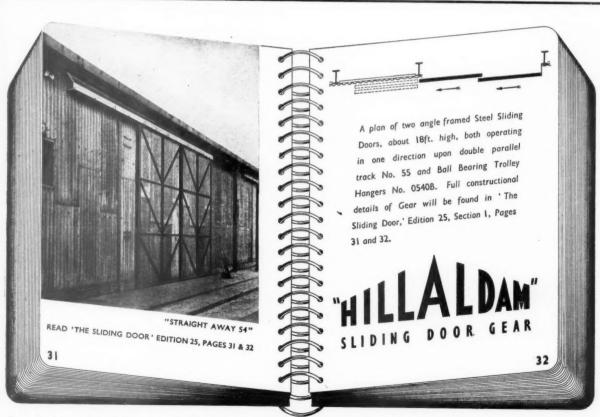
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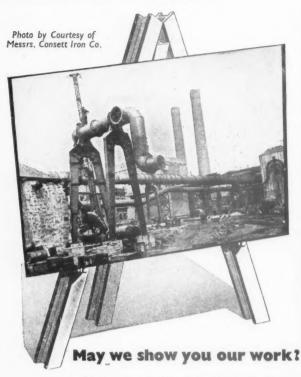
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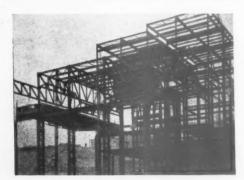
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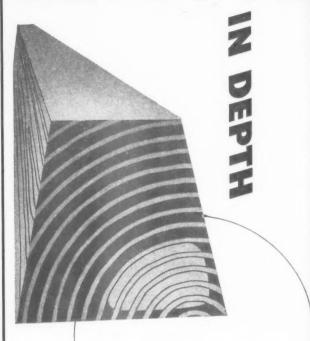
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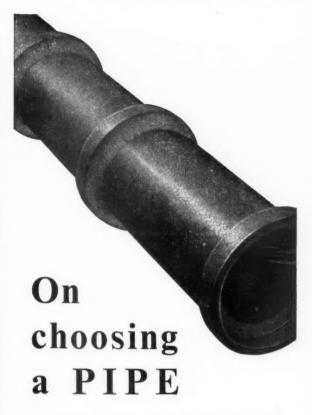












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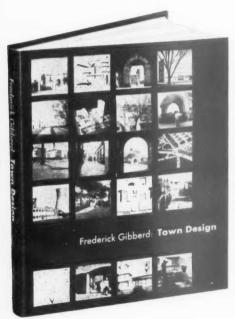




TOWN DESIGN

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Part one DESIGN OF THE COMPLETE TOWN: The Town and its Raw Materials. The Master Plan. Analyses: Guildford Master Plan (G. A. Jellicoe); Exeter Master Plan (Thomas Sharp); Harlow New Town Master Plan (Frederick Gibberd); Crawley New Town Master Plan (Anthony Minoprio).

Part two CENTRAL AREAS: The Town Centre. Civic Spaces. Shopping Centres. Analyses: Pisa, Piazza Del Duomo; Venice, Piazza and Piazzetta San Marco: Florence, Piazza Della Signoria; Florence, Piazza Annunziata; Ciboure, the Church Square; Faormina, Sicily, Piazza San Agostino; Lansing, Michigan, State Capitol (Smith, Hinchman and Grylls); Harlow New Town, Civic Centre (Frederick Gibberd); Amsterdam, Kalver Straat; Poplar, Lansbury Market; Linda Vista, California, Shopping Centre (Earl F. Giberson and Whitney R. Smith); Coventry, Central Square and Shopping Centre (Donald E. E. Gibson); Nuneaton Town Centre (R. C. Moon and Frederick Gibberd).

Part three INDUSTRY: Industrial Buildings and their Siting. Light Industrial Estates. Workshop and Service Areas. Analyses:

County Durham, Team Valley Trading Estate (consulting architect, Prof. W. G. Holford); Knutsford Industrial Estate (Yorke, Rosenberg & Mardall); Crawley New Town Industrial Estate (A. G. Sheppard Fidler).

Part four Housing: The Neighbourhood. Layout with Houses. Layout with Flats. Dwellings on Steep Sites. Mixed Housing Development. Analyses: Bath, Queen Square, The Circus and the Crescent (John Wood the elder, and John Wood the younger); Bath, Landsdown Crescent (John Palmer); Hampstead Garden Suburb (Barry Parker and Raymond Unwin in consultation with Edwin Lutyens); Sidmouth, Mixed Housing Development; Hackney, The Somerford Estate (Frederick Gibberd in association with 6. L. Downing, Borough Engineer and Surveyor); Zürich, Katzenbach Estate (Sauter and Dirler); Harlow New Town, Mark Hall Neighbourhood (Neighbourhood plan: Frederick Gibberd and Frank Booth; Housing Units: Area 1, Harlow Design Unit; Area 2, Fry, Drew and Partners; Area 3, Frederick Gibberd); Stockholm, flats at Grondal (Backström and Reinius).

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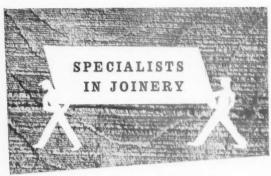
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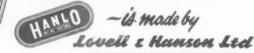
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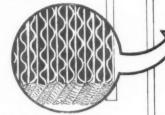
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THE MODERN FACTORY by Edward D. Mills. A book to help solve the many problems of factory planning, design and construction. Size 9½ ins. by 7½ ins. 196 pages with bibliography, index, 44 pages of plates and many line-drawings. Price 30s. net. Postage 8d.

THE MODERN SHOP by Brian and Norman Westwood. A practical, comprehensive, up-to-date book concerned with the planning, design and equipment of the smaller retail shop. Size 9½ ins. by 7½ ins. 183 pages with 135 line illustrations and 165 half-tones. Price 30s. net. Postage 8d.

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CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements 25s. per inch; each additional line, 2s.

28s. per incn; each adational time, 28.
The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Ayency if the applicant is a man ayed 18-64 in lustre or a woman ayed 18-69 inclusive unless he or she, or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

accusive unless he or she, or the employment is excepted from the provisions of the Notification of Yacancies Order, 1952.

CRANBROOOK RURAL DISTRICT COUNCIL. HOUSING ARCHITECT.

Applications are invited for a whole-time Architect to the Council in connection with the Council's new Housing Schemes. The term of the appointment will, subject to satisfactory service, be for five years or such longer period as may later be arranged with the Officer.

Applicants must be Associates of the R.I.B.A., and any other qualifications will be an additional recommendation. Previous experience of supervising and superintending the erection of houses under Contract is essential.

Duties of the appointment are:—

(a) To prepare layouts for site development; plans and types of houses, specifications, and bills of quantities.

(b) To supervise the carrying out of the work under Contract for site development and the erection of the houses, and generally to perform the duties of Architect, under the Contracts.

(c) To deal with the final accounts arising under the Contracts in conjunction with the Chief Financial Officer.

The Officer will not be allowed to engage in private practice as an Architect or to undertake private work.

The salary will be at a rate of £30 per annum, rising by five annual increments of £30 per annum, rising by five annual increments of £30 per annum, rising by five annual increments of £30 per annum, to the Officer's car on official business will be arranged. The appointment will be determinable by three months' notice on either side.

Housing accommodation will be offered the successful applicant.

Applications, on the form obtainable from the undersigned, and giving the names of three referees, must be received by me, marked "Architect: Application," not later than Thursday, 4th June, 1953.

Canvassing in any form will disqualify.

By Order.

P. G. BANFIELD,

Clerk to the Council.

P. G. BANFIELD,
Clerk to the Council.
9th May, 1953.

9th May, 1953.

Ball LONDON COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for certificates of proficiency to perform the duties of District Surveyor will be conducted in London in the week commencing 19th October, 1955. The minimum age limit for candidates in 25.

Possession of this certificate is necessary for appointment to vacant positions as District Surveyor (salary scales: 21,190 to 22,100 a year), or as Assistant District Surveyor (salary scales: 21,002 to 21,143 a year).

Subsequent examinations will be held annually. Apply to The Architect to the Council (AR IB) [EBS), County Hall, Westminster Bridge, S.E.I. for application forms and further particulars. (429)

MINISTRY OF WORKS.

Wacancies exist in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Yacancies mainly in London and Risley (Nr. Warrington). Successful candidates will be employed on wide variety of Public Buildings including Atomic Energy and other Research Establishments, Telephone Exchanges and Housing.

London Salary: Up to £628 per annum. Starting pay according to age, qualifications and experience. Rates outside London slightly lower.

caperience. Rates outside London signity lower.

Reasonable prospects of promotion to Leading and Senior Architectural Assistant. Although these are not established posts many have long-ferm possibilities and competitions are held periodically to fill established vacancies.

Wite stating age, nationality and full details of training and experience, to Chief Architect, W.G.10/C.A.2. Ministry of Works, Abell House, lobal 1819 Street, London, S.W.1.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

PLANNING OFFICERS, Grade III (up to 8876) 10s.) and TECHNICAL ASSISTANTS (up 8696).

Professional qualifications A.R.I.B.A., A.R.I.B.A., A.R.I.C.S., and/or A.M.T.P.I. required. Application forms (for return by 30th May) and particulars from Architect (AR/EK/P/4), County and Application (48), 8786

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR,
A.P.T. VIII; Salary Scale 4760—e835.
Candidates should have had a wide experience in all branches of quantity surveying.

(b) DRAUGHTSMAN (Male), Grade G.D. Salary according to age with a maximum of 445, p.a. at 30 years of age.
Candidates should be capable engineering draughtsman preferably with a knowledge of heating installations.

In the case of post (a) the payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of 6 months' service and in the case of (b) birthday increments will be payable.

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

Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned together with copies of three testimonials by 10 a.m., Saturday, 6th June, 1953.

R. A. H. LITVETT, A.R.I.B.A., City Architect.

Priestley House, Quarry Hill, Leeds, 9, May, 1953.

Priestley House, Quarry Hill, Leeds, 9. May, 1953.

May, 1953.

EPPING RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the above appointment in the Surveyor's Department. Salary grading will be A.P.T., VA-VI (£625-£735), and commencing salary will be assessed according to qualifications and experience. Candidates should have passed the R.I.B.A. Final and/or be Registered Architects. THE COUNCIL WILL PROVIDE MODERN HOUSING ACCOMMODATION.
The candidate appointed with the candidate app

PROVIDE MODERN HOUSING ACCOMMODATION.

The candidate appointed will be required to provide a car, for which an allowance will be paid in accordance with the National Scales for a h.p. car, or alternatively, the Council will provide transport.

The appointment will be subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937.

Applications, endorsed "Architectural Assistant," stating age, qualifications and full details of experience, and accompanied by the names and addresses of two referees, are to be sent to Mr. A. W. R. Webb, A.M.I.C.E., Surveyor, at the address below not later than Monday 8th June.

G. BOWDEN.

G. BOWDEN.

209, High Street, Epping, Essex.

8875

209, High Street, Epping, Essex.

WILTSHIRE COUNTY COUNCIL.
Applications invited for following superannuable appointments:—
(a) TWO ASSISTANT ARCHITECTS. Salary:

(67) 1735. (67) 1735. (78) 1735.

Applicants 10.

R.I.B.A.
Canvassing disqualifies.
Canvassing disqualifies.
County Architect.
County Hall, Trowbridge,
should be returned within 14 days of the appearance of this advertisement.

P. A. SELBORNE STRINGER.

Clerk of the County Council.

8876

TRACER (WOMAN) required by the CROWN AGENTS FOR THE COLONIES for Drawing Office. Commencing pay between 109s. 3d. and 127s. 5d. a week according to age rising by annual increments of 5s. 0d. a week to 139s. 8d. for 45) hour week. Hours 9 a.m. -5.30 p.m. (12 noon Saturdays). Paid holidays at rate of 18 days a year inclusive of one Saturday morning (half day) off per month. Refreshment Club on premises—low charges for lunch and tea. Candidates must be 21 years of age or over and preference will be given to experienced Tracers. Write stating age and experience to The Crown Agents for the Colonies, 4, Millbank, London, S.W.I, quoting 0/225/AG.

S.W.I. quoting 0/225/AG.

SOUTHERN RHODESIA GOVERNMENT.
VACANCY: ASSISTANT TOWN PLANNING
OFFICER.

Applicants should have passed the Final
Examination of the Town Planning Institute (or
an Examination recognised for exemption
therefrom).

Preference will be given to Candidates holding
a recognised qualification in Civil or Municipal
Engineering or in Architecture.

Previous experience in Planning is desirable,
but not essential.
Salary Scale: £804 by £45 to £894 by £45 to
£1,074 by £120 to £1,194 by £48 to £1,482 per
annum.

£1,074 by £120 to £1,194 by £48 to £1,482 per annum.

The commencing salary may be higher than the minimum of the Scale in recognition of approved post application experience.

Application Forms and further details may be obtained from the Secretary, Office of the High Commissioner for Southern Rhodesia, Rhodesia House, 429, Strand, London, W.C.2, to whom completed forms should be returned by 20th June, 1963.

BOROUGH OF BASINGSTOKE.
ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of CLERK OF WORKS. Salary: Miscellaneous, Grade V (2480-£540). Considerable experience of Housing is essential. Applications, together with either copies of two recent testimonials or the names and addresses of two referees, must be submitted not later than Wednesday. Srd June, 1955. to the Borough Architect, Municipal Buildings, Basingstoke.

MEIRION O. JONES,
Town Clerk.

BRITISH ELECTRICITY AUTHORITY.

EAST MIDLANDS DIVISION.

Applications are invited for the following positions within the Division:—
CIVIL ENGINEERING DRAUGHTSMEN,
Construction Department, North Wilford, Nottinghasi. (Vacancy No. 22/55.)

Candidates snould have experience in design and detail of reinorced concrete structures, piled and stab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation scnemes, associated with offices and administrative buildings.

The saiary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

DRAUGHTSMAN, Transmission Department.

greement.

DRAUGHTSMAN, Transmission Department, ivisional Headquarters, Nottingham. (Vacancy

Divisional Headquarters, Nottingnam. (Vacance No. 42/53.)
Candidates should preferably have had experience in one or more of the following:—Design and construction of High Voltage sub-stations or overhead Transmission Lines and underground cable systems. Civil Engineering, Electrical Engineering, including layouts and diagrams for H.V. transformers and switchgear.
Salary and conditions of service will be in accordance with the National Joint Board Agreement, Grade 6 of Schedule D (£433-£567 per annum), according to qualifications and experience.

annum), according to qualifications and experience.

ENGINEERING DRAUGHTSMEN (MECHANICAL), Construction Department, North
Wilford, (Vacancy No. 44/53).

Senior Draugntsmen are required in the
Mechanical section of the Construction Department at North Wilford Power Station, Nottingham. Candidates should have experience in one
or more of the following:—

(i) Design and layout of Power Station equipment, including Turbo-alternators, boiler plant,
coal and ash plant, and general station
auxiliaries.

(ii) H.P. steam and feed pipework.
Condensing Plant and feed heating systems and
material handling of station auxiliary equipment.
Salary and conditions of service will be in
accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6
(£453-£567 per annum) of Schedule D, according to
experience.

experience.

The above appointments will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned. Please quote Vacancy Number.

L. F. JEFFREY, Divisional Controller, 8863

URBAN DISTRICT COUNCIL OF CORBY.
ENGINEER & SURVEYOR'S DEPARTMENT.
Applications are invited for the undermentioned appointments on the permanent staff of the Council's Engineer and Surveyor.
(1) ARCHITECTURAL ASSISTANT.
Applications are invited for the above appointment, at a salary in accordance with Grade VI, A.P.T. Division, of the National Scale of Salaries (£670-£755), commencing at £670 per annum. Candidates must be registered Architects, and should have considerable experience in design, construction and contract administration. Experience of the design and erection of blocks of shops would be an advantage.

(2) TRACER/DRAUGHTSMAN (Male or Femiles) in accordance with Grade VII. of the Salaries (Editor) in accordance with Grade VII. of the Salaries (Editor) in accordance with Grade VII. of the Salaries (Editor) in accordance with Grade VII. of the Salaries (Editor) in accordance with Grade VIII. of the

(2) TRACER/DRAUGHTSMAN (Mate or Female). Salary in accordance with Grade III of the Miscellaneous Division of the National Scale of Salaries, commencing at £375 per annum (£375—

Salaries, commencing at £375 per annum (£375-£440).

Applicants must be neat and expeditious draughtsmen, well experienced in the tracing of Architectural drawings and must be able, also, to undertake lettering thereon of a high standard. The Provisions of the Local Government Superannuation Act, 1937, will apply.

The tenancy of a Council house will be offered to the successful candidates if married. Forms of Application, to be obtained from the undersigned, should be completed and submitted not later than noon on Thursday, 11th June, 1953.

G. B. BLACKALL, Clerk of the Council.

Council Offices, Corby, Northants. 20th May, 1953.

8882

COUNTY BOROUGH OF ROCHDALE.
BOROUGH SURVEYOR'S DEPARTMENT.
Applications are invited for the undermentioned appointments in the Borough Sur-

Applications are invited for the undermentioned appointments in the Borough Surveyor's Department:

(a) ASSISTANT ARCHITECT.

(a) ASSISTANT ARCHITECT.

Salary up to Grade A.P.T., V, according to experience and qualifications.

(b) ASSISTANT QUANTITY SURVEYOR.
Salary up to Grade A.P.T., V, according to experience and qualifications.

Applicants for (a) should have a knowledge of architectural work, with experience in the design of public buildings. To qualify for salary on Grade V (£595-6645 per annum) applicants must be Registered Architects.

Applicants for (b) should have experience in the preparation of Bills of Quantities, Measurement of site works and the preparation of statements for interim and final payments. To qualify for salary on Grade V (£595-6645 per annum) applicants must have passed the Final Examination of the R.I.C.S. (Quantities Section).

The appointments will be subject to the provision of the Local Government Superannuation Acts, and to the selected candidates passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating position applied for, age, qualifications, and full particulars of experience, together with the mames and addresses of two persons to whom reference may be made, must be delivered to the Borough Surveyor. Town Hall, Rochdale, not later than Tuesday, the 23rd June. 1953. Envelones, endorsed "Assistant Architect" or "Assistant Quantity Surveyor."

K. B. MOORE.

Town Clerk.

COUNTY BOROUGH OF BLACKPOOL.

Applications are invited before 6th June for the following established posts in the Borough Surveyor's Dept.:—

ARCHITECTURAL ASSISTANT, Grade A.P.T.

V (£595-£645).
DRAUGHTSMAN (Architectural), Grade Misc.
III (£375-£440).
TRACER. Grade Misc. I/II (£300,£390), according to experience.
Form of application and further particulars obtainable from the Borough Surveyor (Arthur Hamilton, A.R.I.B.A.), Municipal Buildings,

Blackpool.

The Council are unable to give any assistance in the provision of housing accommodation.

TREVOR T. JONES.

Town Clerk

NEW TOWN OF CWMRRAN

(MONMOUTHSHIRE).

APPOINTMENT OF JUNIOR ASSISTANT
ARCHITECT.

Applications are invited for the above post, which carries a salary range of £465×£25×£30×£30-£550 per annum. The commencing salary will be in accordance with the qualifications and experience of the successful candidate.

Applicants should be Graduate Architects, or have completed a satisfactory period of Professional Training.

The appointment is superannuable, and for this purpose the successful applicant will be required to furnish a medical certificate of fitness.

Applications, stating age, experience, details of present and former employment (together with applicable salaries), and the names and addresses of two referees, must reach the undersigned by the 10th June, 1955.

J. C. P. WEST, A.R.I.B.A., A.M.T.P.I.,

Chief Architect.

Victoria Street, Cumbran, Mon.

8891

Victoria Street, Cwmbran, Mon.

LONDON COUNTY COUNCIL.

BUILDING REGULATION DIVISION.

(a) ARCHITECT, Grade I (£1.002-£1.143), with special responsibility for fire safety regulations.

(b) SURVEYOR, Grade II (£837 108-£1.002), for building regulation work under the London Building Acts and by laws.

Particulars and application forms (for return by 17th June) from Architect, AR/EK/BR/4. County Hall, S.E.1, and state post required. (546)

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 18-49 inclusive or a woman aged 18-59 inclusive unless he or she is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RCHITECT'S Department of large compensations of the Notification of Vacancies Order, 1952.

A RCHITECT'S Department of large commercial organization requires ASSISTANTS. Sound all-round training in the profession essential including supervision of work. Excellent opportunities for men of initiative. Apply in writing, giving details of experience, age and salary required. to Box 3582/1, Foster Turner & Everetts, Ltd., 11, Old Jewry, E.C.2.

N ARCHITECT, preferably experienced in prefabrication, is required immediately in a West End office to take charge of a section dealing with the application of standard structures to clients' requirements. Please reply to Box 8849.

WANTED IMMEDIATELY: Architectural Draughtsman (National Service completed). Able to prepare eighth scale Working Drawings from Sketches, Measure up and Plot Down. Good salary to suitable applicant. Apply W. E. Norman Webster & Son, F/LR.I.B.A., la & 2a., Station Street, Spalding, Lincs. 8859

L ARGE firm of Building and Civil Engineering Contractors in West London invite applications for the following appointments in Architect's Department.

tions for the following appointments in Architect's Department.

(1) SENIOR ASSISTANT to be engaged principally on architectural perspective and presentation drawings. Experience and ability in model-making will be an advantage. Salary according to ability and experience.

(2) ASSISTANT to be engaged principally on model-making. Experience in publication work an advantage. Salary according to ability and experience. Appointments will be on a permanent basis.

an advantage. Salary according to ability and experience.

Appointments will be on a permanent basis with good prospects. Applications giving brief particulars of experience to be addressed to Staff Architect, George Wimpey & Co., Limited, 27, Hammersmith Grove, W.6.

A RCHITECT'S DEPARTMENT of Multiple
Retailers in London require Assistant.
Must be good draughtsman with sound knowledge of shopfitting and building construction,
including supervision of work. 5-day week
Write stating full particulars and salary required
to Company Architect, 49-53, Poland Street, W.1.
8866

Company Architect, 49-55, Poland Street, W.1.

8886

CEO. WIMPEY & CO., LIMITED, invite
mapping and the Architect's Department.

(1) SENIOR ASSISTANT ARCHITECT to be
engaged on design and sketch work for various
type buildings, including Multi-Storey Plats and
Maisonettes. Salary will be in the region of
2900 according to qualifications and experience.

(2) SENIOR ARCHITECTURAL ASSISTANTS
to be engaged on the preparation of working
drawings and details for Multi-Storey Flats and
Maisonettes. Salaries will range from £650 to
£800 according to qualifications and experience.

Appointments will be on a permanent basis
with good prospects. Applications giving brief
particulars of qualifications and experience to be
addressed to Staff Architect, 27, Hammersmith
Grove, W.6.

RCHITECTURAL ASSISTANT (agg 23.02)

A RCHITECTURAL ASSISTANT (age 23-27), at least three years' drawing office experience, preferably in connection with industrial and commercial buildings, required by City firm of Building Surveyors. Salary: £400-£600. Apply BOX 9855

RCHITECTURAL DRAUGHTSMAN wanted

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Maidenhead; permanent position; good salary and prospects. Full particulars training, experience, age. salary, to Box 8668.

JUNIOR ASSISTANT required by well-established Architect. Write experience and salary required to Whydale, 2, Fish Hill, Royston, Herts.

A RCHITECTURAL DRAUGHTSMAN required for contract near Newburn Interested in general work on site. Apply to M. E. A. Palmer, Dept. 1, George Wimpey & Co. Ltd., 27, Hammersmith Grove, London, W.6.

Ltd., 27, Hammersmith Grove, London, W. 6. 886

ARCHITECTURAL ASSISTANT wanted
Intermediate R.I.B.A. standard, with office experience, essential. Salary according to experience and ability. Only keen young men able and willing to do responsible work with experience and ability. Only keen young men able and willing to do responsible work with experience and admiliated team meet apply. T. H. Thorpe & Partners, 23, St. James's Street, Derby.

ASSISTANT required by Private Architects in London with varied practice. Must be experienced draughtsman with some administrative knowledge. Apply Box 8872.

ARCHITECTS ASSISTANT required for East-bourne Office. Intermediate standard. Able to prepare working drawings and specifications. Write stating age, experience and salary required to Box 8871.

TUNIOR ARCHITECTURAL ASSISTANT

TUNIOR ARCHITECTURAL ASSISTANT required, capable of preparing working drawings, details, etc., of commercial premises. Apply Staff Architect, Hillier Parker May & Rowden, 77, Grosvenor Street, W.L. JUNIOR

A RCHITECTURAL ASSISTANT with practical experience required by a North-West firm of Architects with general and varied practice covering an extensive area. Architectural and administrative ability with site supervision on own responsibility essential. Applicants muspossess own car for which mileage allowance will be paid. Full particulars and salary required is Rox 8869.

Box 8869.

A RCHITECTURAL ASSISTANT; S.E. Coast,
Student R.I.B.A.; Permanent situation for
keen, capable man; Pleasant Office; Varied work.
State salary required.—Box 8868.

ENFERIENCED ARCHITECTURAL
ASSISTANT required in City Office, General
Practice. Must be good draughtsman with sound
knowledge of construction and office experience.
Apply Messrs B. W. Turnbull and Pariners, &
Ludgate Hill, E.C.4. Phone City 2234. 887

UNIOR ARCHITECTURAL ASSISTANT

UNIOR ARCHITECTURAL

Ludgate Hill, E.C.4. Phone City 2234. 886

JUNIOR ARCHITECTURAL ASSISTANT required immediately. All types of interesting work in and near London. Must be capable d quick working drawings and details. Apply by letter, stating age, experience and salar, Meredith & Partners, 6, Victoria House, 888 letter, star Meredith Goodmayes.

UNIOR ASSISTANT required immediately for office in Berkshire. Should be capable of preparing working drawings, details, under supervision, and assist on surveys. Office experience preferable but not essential. Please send full particulars to Box 8882.

MALL, recently formed Architect's Department at London Head Office of Multiple Company requires young Assistant, Infer. R.I.B.A. standard, with office experience, for work on both maintenance of Company properties and New Contracts. Some travelling involved. Write stating age, experience, salary, etc. Box 8883. involved. Wri

YOUNG ARCHITECT, with journalistic flair, required. £800 p.a. Box 8990.

Architectural Appointments Wanted

A RCHITECTURAL ASSISTANT, Dip.A. (28), experience of design, working drings, seeks part-time employment. Box 8833. Dip.Arch



ooks

an illustrated catalogue of books on architecture, planning, building practice and kindred subjects will be sent on application to

THE ARCHITECTURAL PRESS 9-13 Queen Anne's Gate Westminster SW1 PRINCIPAL ASSISTANT, A.R.I.B.A., (38), good design, administrative and supervisory ability, 20 years' experience including multi-storey fats, housing and estate layout, hospital work, factories and cinemas. Desires position of responsibility leading to future partnership. Box 700.

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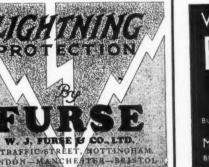
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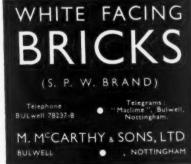
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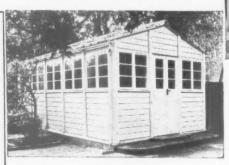
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