

tandard

contents

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

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No. 31991 [VOL: 123 THE ARCHITECTURAL , 11 and 13, Queen Anne's Gate, Westminster, S.W. I. 'Phone: Whitehall of 11

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* A glossary of abbreviations of Government Departments and so of all kinds, together with their full address and telephone numbers. lished in two parts—A to Ie one week, Ih to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

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94/98, Petty France, S.W.1. Abbey 1010

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National House Builders Registration Council. 82, New Cavendish Street, W.1. **NFBTO** Macaulay 4451 Whitehall 1693 **NFHS**

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Bridge Street, S.W.1.

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42, Queen Anne's Gate, S.W.1.

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SIA Society of Industrial Artists. 7, Woburn Square, London, W.C.1. Langham 1984/5 Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616 SNHTPC Scottish National Housing. Town Planning Council.

Hon. Sec., Robert Pollock, Town Clerk, Rutherglen. SPAB Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.

Holborn 2646 Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.
Temple Bar 5006 **TCPA** TDA Timber Development Association. 21, College Hill, E.C.4. City 4771

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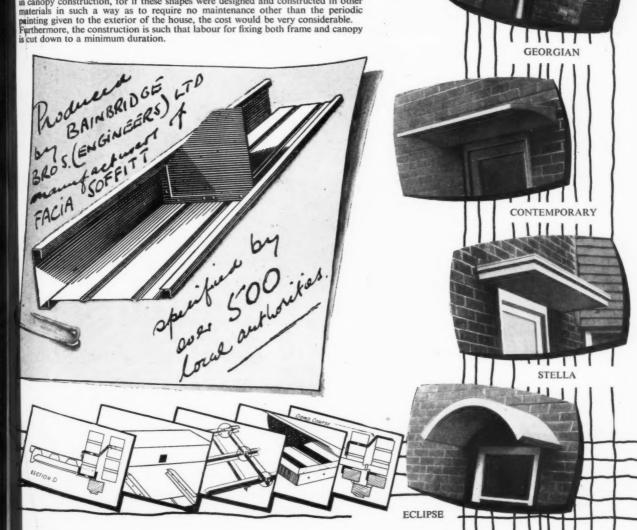
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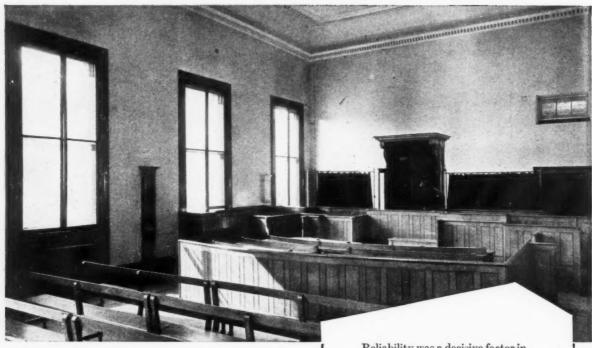




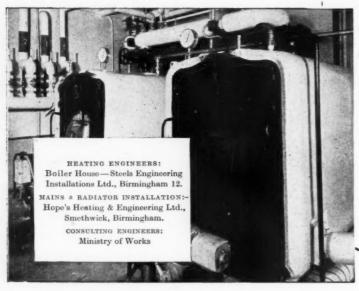


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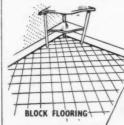
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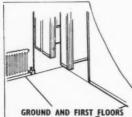


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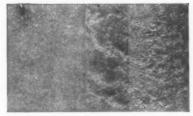
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DOMESTIC KITCHEN PLANNING

SPECIAL CASES

In many houses and flats it is not always possible to arrange for the classic U and L layouts: the building may not be suitable, and many clients have their own particular requirements, but nevertheless some interesting plans arise which derive their character from such individual circumstances. The examples given in these notes differ considerably from each other, and will give some idea of the possibilities of electric kitchen planning.

Kitchen and Laundry

In the example shown in Fig. 1, a long narrow room had been planned, and it was required to arrange a kitchen and home laundry in it, with a drying cupboard and fixed bench for ironing at one end near the back door. The drying cupboard was placed against an outside wall in which a small extract fan is fitted, and provided with an electric heater in the base under 3-heat control, the loading being 3 kW. The interior of the cupboard (including the backs of the doors) is lined with glazed asbestos sheets and provided with movable rods and a bar to take coat hangers for drying-off wet outer clothing.

A standard type washing machine with electric pump and wringer is provided in correct relation to the sink for rinsing, the counter opposite being used for sorting linen as well as for ironing.

The Organisation of the Kitchen

The design of the kitchen is based on two working levels and the use of a trolley for service to the dining-room. Cooker hob, sink and draining board, together with the counters on each side of the cooker, are 3 ft, high and form a self-contained working unit, the trolley being kept below the counter between sink and cooker when not in use. This counter is used for dishing-up and loading the trolley when serving a meal, and for the accommodation of used plates, dishes, cutlery, etc., from the trolley when clearing away. When washing-up, the dried articles may be placed either directly in place in the china cupboard opposite or stacked on the low level (2 ft. 6 ins.) counter otherwise used for ironing.

Food Preparation and Storage

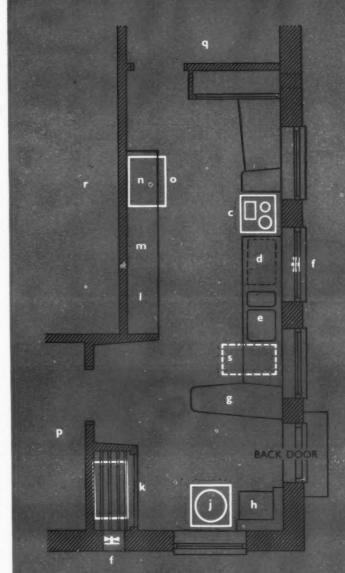
Most food preparation is done on the low level preparation counter, 2 ft. 6 ins. high, between the cooker and the food store, though vegetables, fruit, etc., are cleaned and prepared in a bowl in the sink or on the counter between sink and cooker. The refrigerator and grocery store are opposite the working areas, which are consequently left free from overhanging cupboards and are well lighted.

The laundry and kitchen are warmed by electric floor heating (see H.1), and lighting is by fluorescent lamps. The main storage cupboards have full height access with closely spaced shelves and upper and lower doors. All cooking utensils, with the exception of small articles which are kept in drawers under the counter near the cooker, are accommodated in the lower part of a cupboard opposite.

The Galley Kitchen

D

Another type of layout, much more compact and designed for very different conditions, is shown in Fig. 2. It forms part of a re-built town house (where space was at a premium) and opens directly off the dining-room. Laundry equipment is contained in a back lobby.

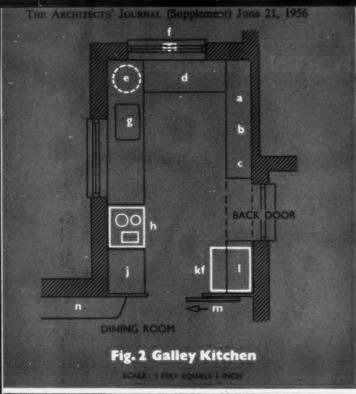


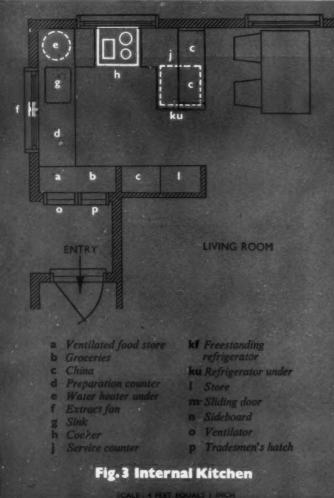
- a Ventilated food store
- **b** Preparation counter low level
- c Cooker
- d Trollev under
- Sink
- f Extract fan
- g Ironing table
- h Laundry sink
- Washing machine

- k Drying cupboard
- 1 China cupboard
- m Groceries
- n Dry goods
- o Refrigerator
- p Dining Room
- q Hall
- r Living Room
- S Electric water heater in bathroom over

Fig. I Kitchen and Laundry

SCALE: 4 FEET EQUALS I INCH





Cupboard Treatment

A feature of this kitchen is the arrangement of the cupboards and storage accommodation. No hanging cupboards are used, the whole working area being unencumbered and lighted by windows on two sides. Again the main storage cupboards are opposite the working area with direct access for their full height. In order to obtain ventilation for the food store, it is placed at a higher level above the china cupboard which is at middle height. The grocery cupboard adjoins the food store, and the utensils, etc., are kept below the china. The refrigerator is in a corner near the dining-room and has a small cupboard above for bread, pastries, etc. A full range of cupboards including a vegetable store is provided beneath the long working area, but they finish a foot above floor level to reduce stooping. There are no cupboards under the preparation counter, but room is provided for a stool and an adjustable electric fire.

Lighting and Socket Outlets

Owing to the size of the room and the light nature of the decorations and finishes, two filament lamps, within open bottom diffusing fittings, give an excellent light. Socket outlets for small appliances are provided immediately under the preparation counter, and above the service counter where the automatic cooker control is situated.

The Internal Kitchen

A recent development in the planning of small houses and flats that has become possible with the full use of modern electrical equipment is the arrangement of an internal kitchen opening off the dining- or living-room and used solely for the preparation of meals and clearing away afterwards. Fig. 3 shows such a scheme prepared for a pre-fabricated house planned on a four-foot grid,

General Features

The plan is self explanatory, but it will be noticed that all the equipment is particularly well placed for food preparation, cooking and washing up, and occupies surprisingly little space. The problem of back and front doors in such a small house is overcome by the use of an entrance porch with tradesmen's hatch opening direct into a self-contained part of the food store. Grocery and other stores are kept in the same range of cupboards with full height access.

This kitchen is exceptionally well lit, cheerful and sunny, with ample room to move about in, and very convenient service arrangements. An electric extract fan is provided and a small water heater is sufficient, as the major demand is only for washing-up. In this particular house it is proposed to install the home laundry equipment in an adjunct of the bathroom, making use of the same electric heater that serves the bath and basin, a system that is frequently used in Sweden and has advantages in small houses or flats.

For further details apply to

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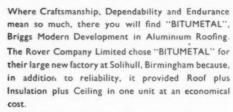
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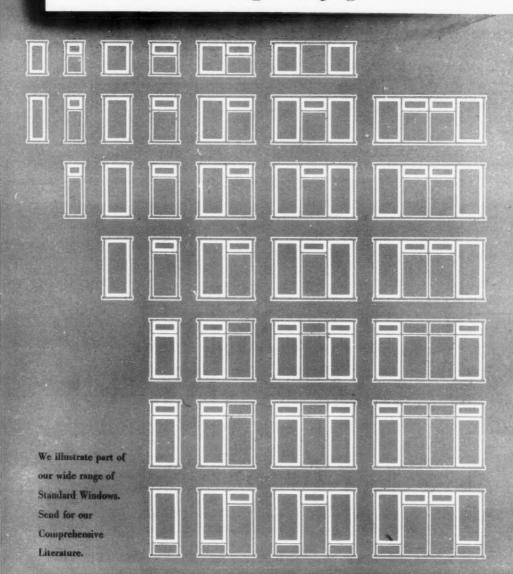
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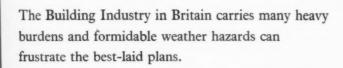




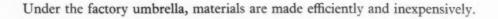
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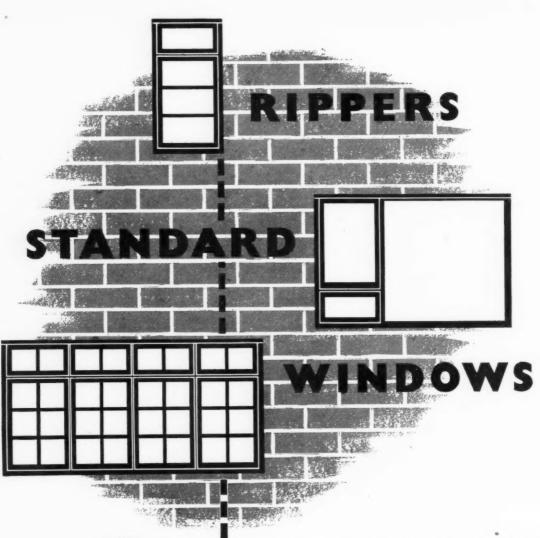
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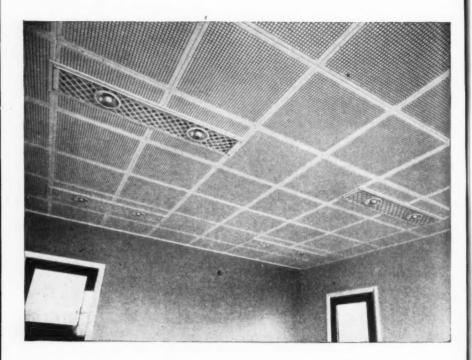
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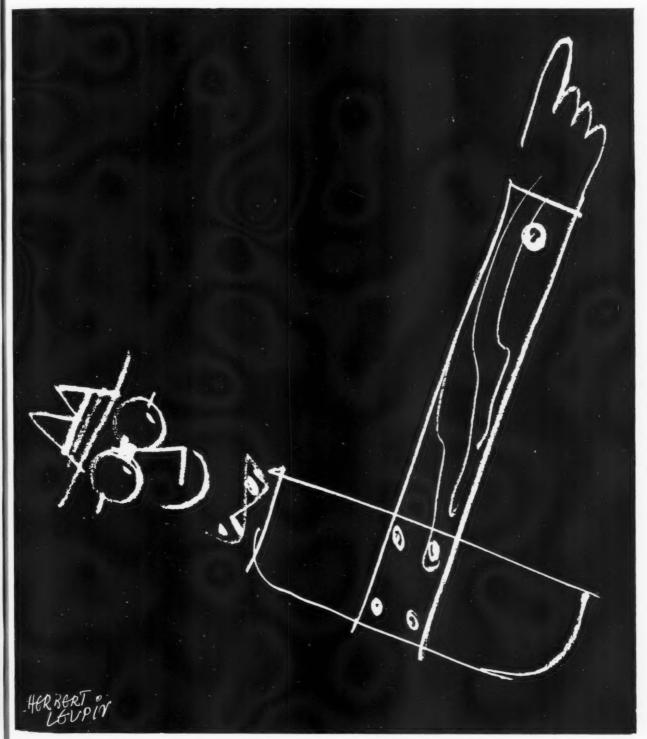
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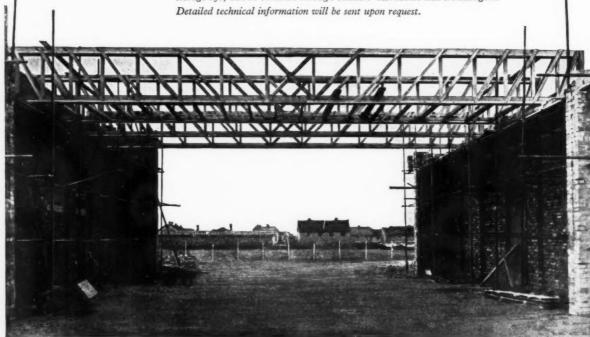
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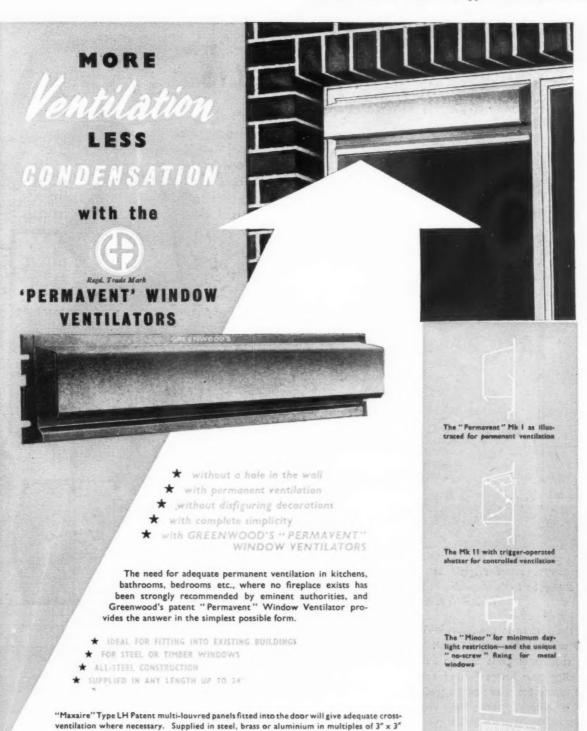
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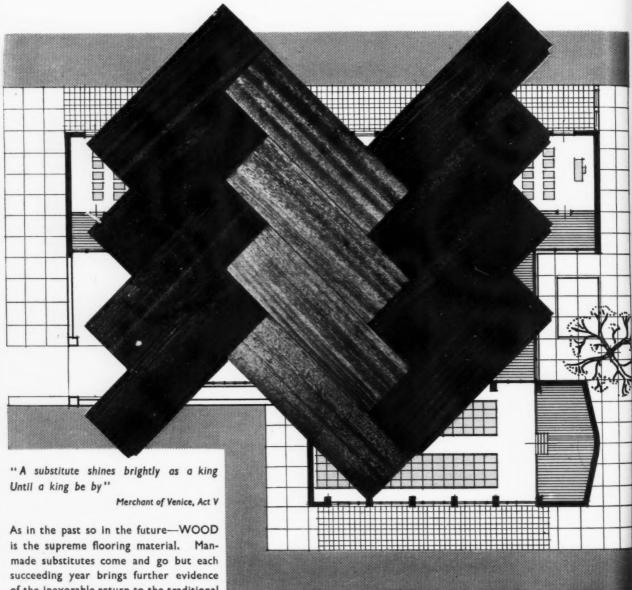
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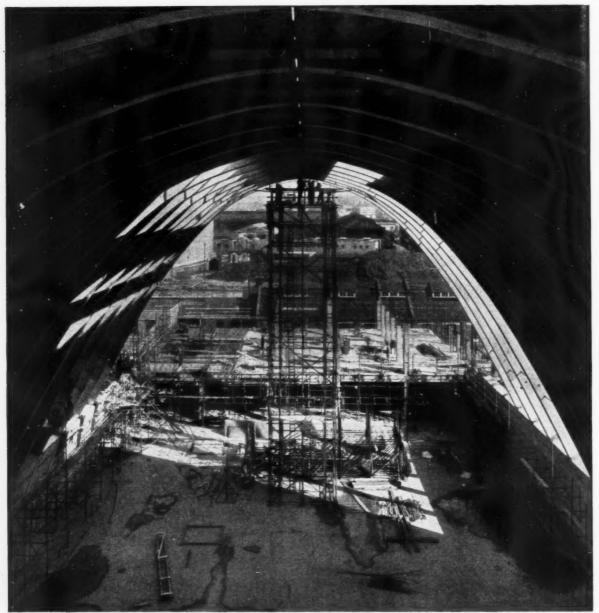
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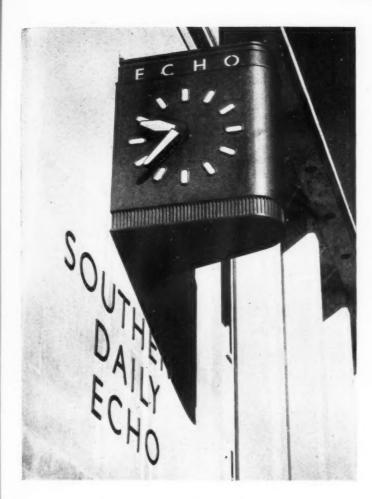
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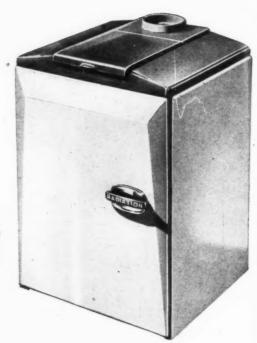
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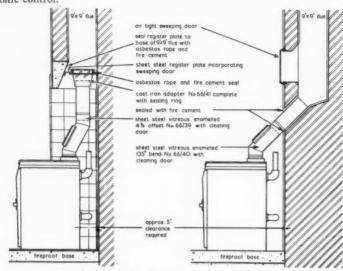


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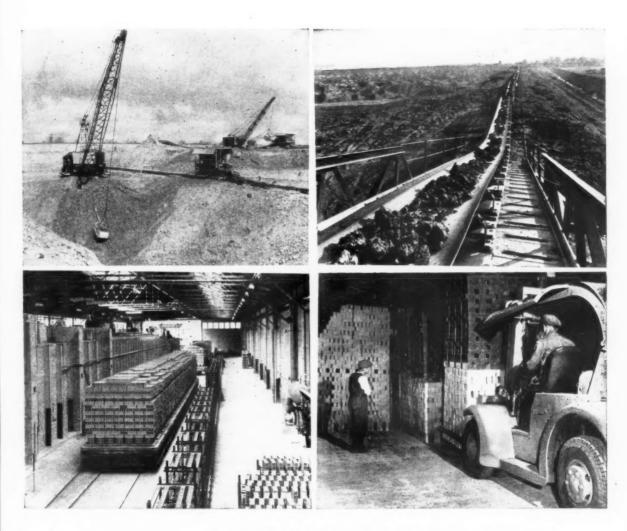


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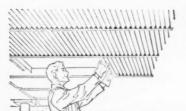
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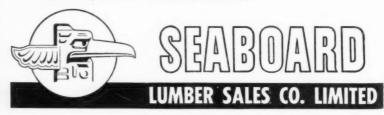
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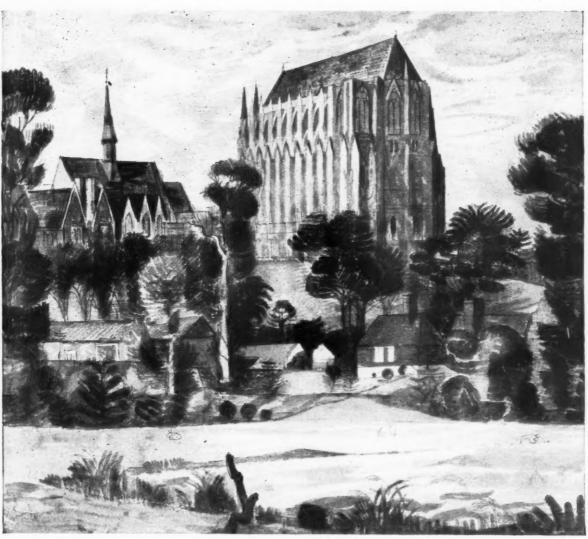
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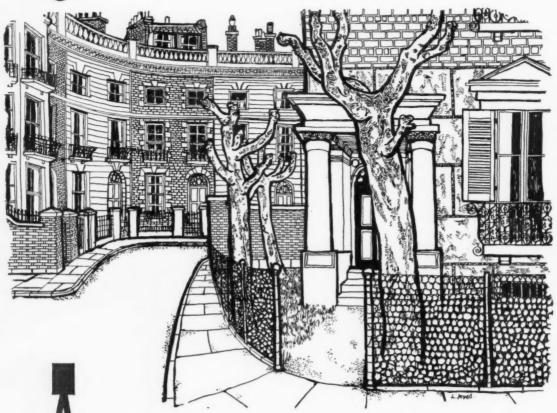
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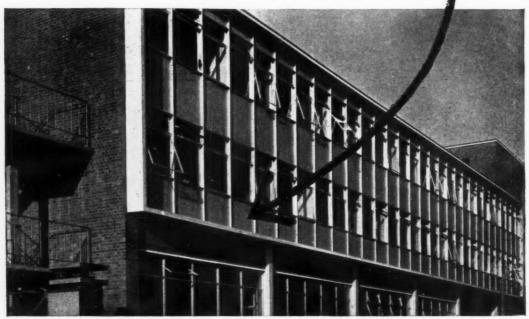
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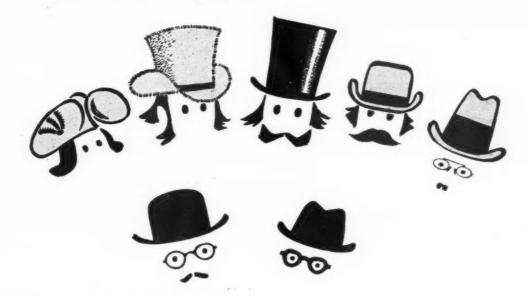
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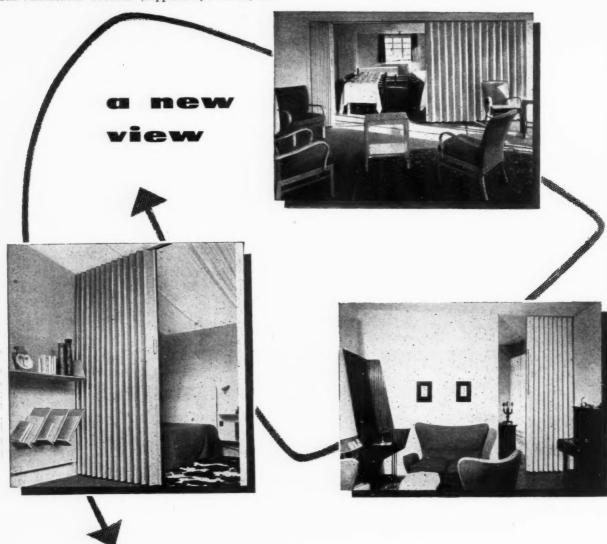
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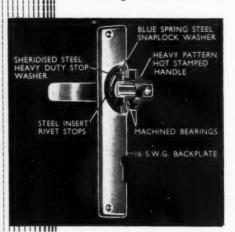
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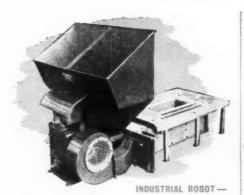
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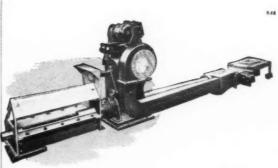
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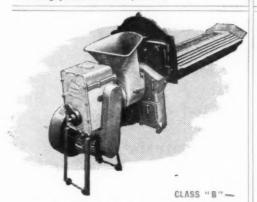
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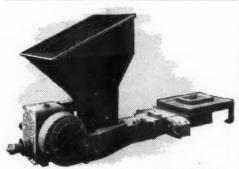
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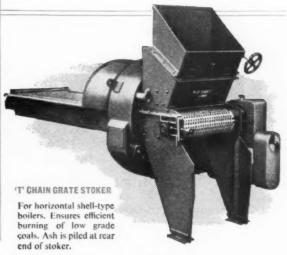
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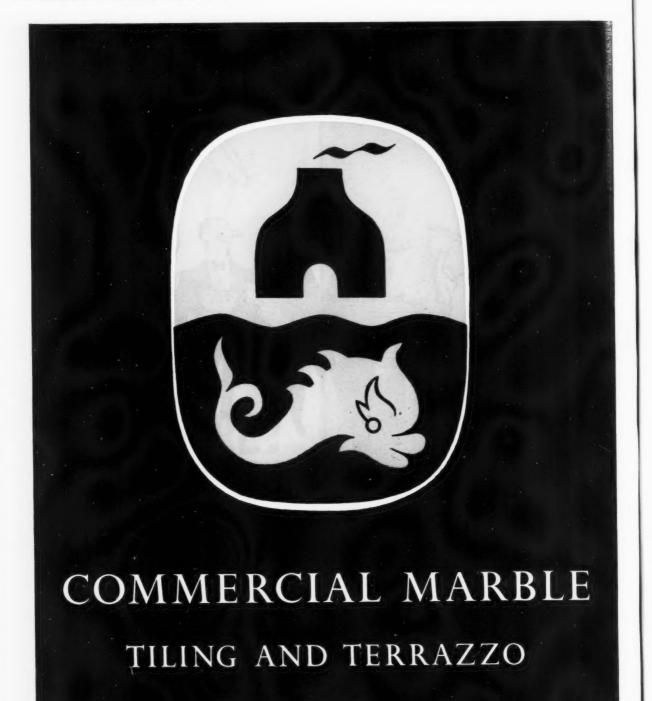
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Seen it. Who hasn't?

Committee ravin' about it . . .

Midred swoonin' with joy . . .

Lady Crocker in transports, says she's going to have the bar copied . . . with gold fittings.

Can't understand how they got away with it.

Who—Reed Millican*?
Dazzle 'em old boy.
Blind 'em with science. Bamboozle 'em.
It's all done by mirrors.

Certainly boosts the bar takings.

Bubbly by the bucket. Fizz by the firkin. Can't hear yourself speak for the poppin' of corks.

What about a bottle?

Done—and a pony on Glassblower in the 3-30.





THE ARCHITECTS' JOURNAL

No. 3199 Vol. 123 June 21, 1956

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NOT QUITE ARCHITECTURE*

NEWS LETTER FROM DUBLIN

Architects,—with those suede shoes, that queer sort of hair, that owlish manner,—are they . . . all right . . . socially? (Do their daughters ever even hose the river police?) Anyway, the President of Ireland had all sorts of architects, gents, indigents and injuns, to tea one cold June afternoon this year, but incidentally, I mean, smuggled in under a Study Group of the International Hospital Federation, like Ulysses under the belly of that ram,—except he was on his way out. Architects must be on their way in?

The President, no Polyphemus, polyglottally welcomed them, in French, English and Irish; later, under the South Portico of his house, (former Viceregal lodge), in the Phoenix Park, (former property of Barbara Villiers property of Charles II), he gave Thomas P. Kennedy, Esq. the Triennial Gold Medal issued once in a blue moon by the Royal Institute of the Architects of Ireland. This year's blue moon shines on Mr. Kennedy's elegant, efficient St. Luke's hospital, the first to be visited by the International Hospital Federation's Study Group in its tour.

The Group's face after its Tour was a Study. Ten days whirling around the minuscule sub-tropical isle and they had seen 24 hospitals, total capital value £34,000,000. The day before the President's Reception, the Group, complete with face, was down in Architects' H.Q., 8, Merrion Square, examining drawings

[•] Meaning exactly what it says.



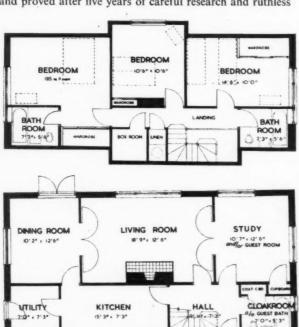






Clay Feet on Modern Gods?

There is nothing new about a spec. builder trundling out the same old plan with a slightly different treatment of the exposed half-inch beams. But there is something new about an organisation which will provide the same plan and a choice from four facades, of which three are designed by eminent architects. The author of the "unique basic plan" (below) which Boxgrove Houses Ltd., have "perfected and proved after five years of careful research and ruthless



testing" remains anonymous. But the firm proudly announces that the elevations and "certain internal details" are the work of Sir Giles Gilbert Scott, Basil Spence and F. R. S. Yorke.* How splendid it is that Messrs. Yorke and Spence have taken part in this scheme for the marketing of plans. If Sir Giles had been in it alone the profession would not have raised more than half an eyebrow. But doubtless Mr. Spence and Mr. Yorke are looked to by many people for a lead in things architectural, and here they have shown their followers quite clearly that it is now all right to drop any preconceived ideas about elevations being controlled by plans, sites and townscaping. Is this, perhaps, the first step towards an easier life for busy architects who find the designing of private houses unprofitable? Can the intelligent client be made to realise that any talk of aspect and prospect is just old-fashioned nonsense, and that what really matters is that he, like Smith, Jones and a few hundred other people, owns a "unique" exterior curtain autographed by a celebrity? ("Yes we decided he was the best man for the job: mind you he was awfully busy on the cathedral "). Or will there always be the irritating client who wants individual attention: and is it possible that some architects will always prefer to give such attention? If so, Boxgrove still has a suggestion to make: "If you wish to use the Boxgrove form of construction and layout plan, but would like to have elevations and internal features to your own individual taste and requirements, you can appoint your own architect to work out the details." So you architects need not despair: even if Boxgrove monopolises every Acacia Grove in the country, you will not be squeezed out of business. The public is actually being recommended to come to you for those pretty little touches you have learned to do so well. And, anyway, who wants to be bothered with tiresome plans?

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^{*} Photographs: top right, above left and above right respectively.

for . . . more hospitals, the gin and Noilly gurgling in its tired throat. You're starting at the wrong end, said a Scottish architect, referring of course to the hospitals; that money should be spent on schools and houses. (Visions of the Irish Schools Lottery, the Irish Housing Bingo!) Now, apparently, cruising through the luscious Irish grasslands are vast T.B. Sanatoria, white, gleaming, doctor-bearing nurse-haunted -but no passengers! (They're all over in England, on strike for more sick leave.) It is civilisation, the Welfare State, the Absentee Game,-topia for the

They're too big, said the Scottish architect, when he saw the 2,000-child schools in Dublin's suburbs; you want smaller schools, more widely spaced, so that as birthrates vary from district to district you can close one school, open another, cut your losses, keep the scale intimate. (One didn't tell him but, actually, one's birthrate has no Highlands, no Lowlands, doesna vary. This is one site where R.C. doesn't mean béton armé.)

H.E.'s garden is by Decimus Burton: in clothing his guests Montague played no part. H.E.'s sky, for the party, in pale washes of five pounds lead, is by Nemesis, the well-known blanket. At 17.30 hours, Study Group time, guests deserted the garden for the terrace. The South Portico, proscenium for the presentation of this Medal, is by Francis Johnston, Father of the Royal Hibernian Academy, architect of the Nelson Pillar and of that phoenix's nest, the G.P.O.

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So memory fades out this congruous tableau-Francis Johnston, Tom Kennedy, D. (& M.) Burton, H. E. and Mrs. H. E., the Medal, the Architects' President, (inscrutable beard,) the aides, the ceteri. There is a crackle of applauding smiles as the Medallist conjures up between the columns the gay corporeal presences of Freddie Hicks and Alan Hope, winners of the first and second Triennial medals (a church, a factory) and hails the absent No. 3, D. FitzGerald (an aeroplane halt), the only other Gael so decorated. The pleasant afternoon lacked only one thing-a pretty nurse to pluck the medal out of a revolving drum.

NIALL MONTGOMERY

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

The Editors

COMPETITION CONFUSION

THE international competition for the design of a National Opera House at Sydney, Australia, is one of the largest and most important of post-war competitions. The prestige of two of the four assessors: Dr. Leslie Martin and Eero Saarinen is sufficient to stimulate widespread participation in the competition. It is, therefore, distressing to learn that all is not going well. The troubles arise from the official answers given to the questions asked by competitors. The original competition conditions were admirable: short

and clear, leaving great latitude for imaginative and creative thought. There were only two brief pages of relevant building regulations. However, the answers to competitors' questions make, in effect, a further 56 pages of largely design-affecting conditions. Some of these new regulations would seem to rule out most of the buildings of this kind for the last thirty years—the Royal Festival Hall, as well as the halls at Malmo, Gothenburg and Mannheim. These regulations concern the question of raised auditoria, with public circulation underneath, which was a possibility under the original conditions. Do the assessors seriously intend to throw overboard all schemes that do not have their auditoria at ground level? If so, is it reasonable to do so at this stage, when many competitors have three months' work behind them, and when the assessors have stated that the original conditions contain the "relevant building regulations"? Surely a regulation with such a devastating effect on the design is highly relevant? On the other hand, the anwers are somewhat ambiguous, and self-contradictory, so that it is not quite clear what is really intended.

Here are two questions and answers which affect this issue:

"387. Question: There have recently been examples of auditoria built over public areas and dressing rooms. Provided the requisite fire precautions are taken, will this be allowed? Answer: No." (It is not clear what "public areas" are, but this would seem to refer to foyers, etc.)

10yers, etc.)

"293. Question: Re Appendix 2—Regulations: This Appendix sets out 'A Summary of Relevant Regulations to be observed.' However, there are certain important provisions in Part 2 of the Theatres and Public Halls Act, 1908-1946, which are not referred to in this summary; for instance, clause 11 of the part, 'Floor Level' requires that 'in no case shall the floor level be more than 3 feet 6 inches above or more than 12 feet below the mean level of the footpath of the main thoroughfare except with the special consent of the Minister . Is this clause relevant or does its absence from the summary infer that the Minister's consent to waiving it is taken for granted? Are other provisions of the Act not covered by the Summary to be ignored for the purposes of this competition, or should the Act be taken as applying in full where applicable? *Answer*: No exemptions from the regulations are to be assumed. It is considered that the summary of requirements set out in the Conditions indicates the major matters of concern to competitors at this stage and was intended to ensure that as far as possible all competitors would comply with the same mandatory

It is not clear from the above whether the word "regulations" in the first line of the answer refers to the regulations in the Conditions or all the existing regulations. There seem to be certain waivers "built in" as it were, to the Acts, but it is still not clear whether the Assessors consider these to be exemptions from or part of the regulations. Incidentally, steeply raked auditoria such as the Festival Hall would be ruled out by the "floor level" requirement, as obviously, from the dimensions given above, 15 feet 6 inches is the maximum permissible drop for the rake.

Here are further examples of muddled replies to questions:

"329. Question: Appendix 2, para. 15 (Dressing rooms etc. not to be placed under the stage or the auditorium). Does this mean conversely that an auditorium should not be placed under dressing rooms or a stage? *Answer:* Yes, if adequate fire protection and escapes are provided." (It seems a fairly safe bet that the Assessors really mean no, i.e. that an auditorium could be placed under dressing rooms or stage because otherwise the qualifying clause

is redundant.)

"408. Question: Can the two main halls be adjacent to each other or must they be one above the other? Answer: A matter for the competitor."

Here the questioner is incorrect in implying that there was a condition that the two main halls be placed one above the other, but it is difficult to reconcile the Assessors' answer with their answers to questions 387 and 239. The auditoria could not be one above the other unless each was 7 feet 9 inches high, and surely an auditorium is a "public area"?

The two questions quoted below add a further confusion on a much less important issue, that of Continental seating.

" 326: Question: Continental European system of seating (retractable or lifting seats and a clear spacing of at least two (2) feet between rows) sets no limit to the number of seats between two aisles. Could such system be adopted? Answer: For the purpose of the Competition this could be assumed."
" 348: Question: Is so-called 'Continental' or aisle-less seating permitted, as it is by National Board of Fire Underwriters' Code? Answer: No."

These ambiguities in answering questions will not contribute to the popularity and good reputation of the competition system, so it is to be hoped that the Assessors will take steps to clarify these issues. Otherwise many progressive ideas on opera house design may be lost.

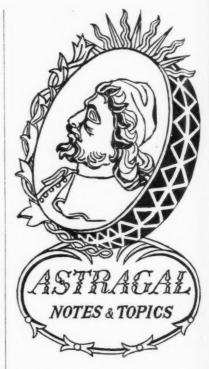
READ THIS WEEK

Spec. houses with facades by Basil Spence and F. R. S. Yo	orke		page 696
Australian concert hall competitors meet difficulties			page 697
BBC Critics call South Bank Shell building "unadventur	rous an	d	
old-fashioned"		* *	page 698
AJ holiday offer: four more days to apply			page 703
Norwich city centre scheme approved			page 704
Progress photographs of UNESCO headquarters, Paris			page 706



FILE THIS WEEK

The Industry. This week Brian Grant reviews a booklet on conversion schemes which has been produced by manufacturers of water heaters. The schemes illustrated show the use of various types of water heater from the small sink unit to the larger multi-point and the balanced flue type. Mr. Grant also refers to a series of boilers intended for central heating and indirect hot water supplies, some new gas cookers and a range of plastic dome lights.. page 708 Offices in Chiswell Street. Our building of the week is the first lettable office building to be described and analyzed in the JOURNAL. It is also one of the first office buildings in the City of London worthy of close study .. page 715 Working Details. This week's Details include one on a range of glass doors at London Airport and a ventilation duct in the exhibition hall at the Airport.



CAN YOU RELY ON IT?

The BBC's weekly Critics certainly pushed Howard Robertson's South Bank tower-block around a couple of Sundays back. R. H. Westwater made a brisk opening, only to retreat into a series of hedging clauses about not judging by the model at the RA, and tried to turn the discussion on to the more general plane of high-rise development in the abstract, but the rest of the critics weren't having any, and insisted on discussing the Shell tower in the concrete (or Portland Stone, to be more precise).

Ivor Brown immediately made the sectional point that it would overshadow the National Theatre, and attempts to discuss it as a backdrop to the river-bank buildings got lost as Morpurgo drew comparisons with the New York riverline and skyline, and said that the South Bank must be made more adventurous, a point he reemphasized later. The Shell tower he found conspicuously unadventurous, a point on which the elegant Alan Pryce-Jones at once backed him up, only to be followed by Freda Bruce Lockhart with a forthright "I think it's positively old-fashioned "-not at all the usual architectural line of the distaff-side critics. Even Gerald Barry turned exponent of the new-look, chairmanship, animpartial, and nounced that he too found it old-







"The big skyscrapers in New York . . . seem to be floating away because they ve got wonderful new materials, glass and aluminium, and they're able to use height and use it lightly." Thus spoke Sir Gerald Barry on the BBC's Critics programme recently (as ASTRAGAL reports this week) when describing Sir Howard Robertson's design for the Shell offices on South Bank as "old fashioned." In contrast with British architects' endeavours to design high buildings, here are two designs by Skidmore, Owings & Merrill for offices in New York. On the left is a sketch of the proposed 41-storey offices between Park and Madison Avenues for the Union Carbide and Carbon Corporation which is expected to be completed by the end of 1958. It is estimated to cost \$40,000,000, have a gross floor area of 1,250,000 square feet, including cafeteria, lounges and medical unit, and will be occupied by over 3,000 office workers. Right, the proposed offices for the Chase Manhattan Bank, sited on a 2½ acre site bounded by Nassan, Liberty, William and Pine Streets. It will rise 60 storeys, or 810 feet above the piazza, beneath which are a further six floors. See further illustrations on page 707.

fashioned, and compared the Portland Stone facing unfavourably to the patent glazing of recent US skyscrapers. Although this unfortunately gave the cue for some routine New-Elizabethan trumpetings about Portland Stone and St. Paul's from Ivor Brown, the whole tone of the discussion remained hostile, and the much-vaunted "intelligent lay opinion" of the Critics proved itself for once in tune with much professional opinion.

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Ever since the Danckwaerts award, money has been piling up (at the rate of £80,000 a year) in a special kitty designed to enable doctors to obtain interest-free loans for building group clinics. Recently ASTRAGAL went to the AA to hear Dr. Stephen Taylor, of the Nuffield Trust, give his views on the sort of buildings doctors ought to want. Of course, as Dr. Taylor pointed out, doctors don't want them, being at once the most incoherent, the most vacillating and the most dogmatic of clients. But the few up and down the country who have got the sort of group clinics (conversions, most of them) Dr. Taylor and the Nuffield are gunning for, are reported to be as happy as birds.

ASTRAGAL, who was much invigorated by Dr. Taylor's jolly, no-nonsense attitude, cannot quite see why the doctors should be all that happy. Dr. Taylor's recipe is: do it on the cheap, make the patients feel at home, and for goodness sake fit windows that open. On the planning issues ASTRAGAL has no quibble. But unfortunately this recipe has meant so far using only the sad, tired, building components and furniture which inconsiderate usage has made cheap and familiar. Dr. Taylor spent a rollicking evening holding up for example one artless waiting room after another, pausing only to make wicked asides on the few good-looking objects which happened to flash on to the screen ("lousy basin . . . looks pretty . . . doesn't work ").

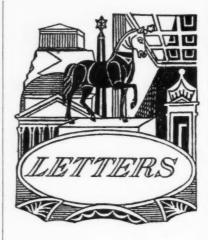
ASTRAGAL was not convinced. He is all for the domestic scale, for good value for money, and for windows that let out B-if you will pardon the expression-O; but he doubts very much if patients are greatly reassured by finding subtopia in the doctor's waiting room and visual chaos in his sanctum. Good design, after all, is a therapy in itself: National Health patients may not like it because, God knows, it is unfamiliar; but it does them good. Also the argument from economic stringency is nonsense: the clinic building programme represents a not-very-poor profession settling down into the setting which must last them a lifetime. To speak of it as though it were nissen-hutor-nothing is (to use Dr. Taylor's refreshing outspokenness) tosh, tripe, and bunkum.

SIR ALBERT SPEAKS FRANKLY

Professor Sir Albert Richardson's contribution to the BBC's Frankly Speaking, in which he was grilled by Margaret Lane, John Betjeman and Lionel Hale, produced few surprises from the architectural point of view. No doubt demonologists and exorcists will have raised their eyebrows at Sir Albert's suggestion that his house at Ampthill is not haunted because it was once inhabited by Quakers. (Estate agents should find this useful information, too—one can imagine how Honest Roy Brooks will put it to work.)

For the rest, beginning with an admission that he found the Twentieth Century rather unreal, the PRA revealed the true soul of an eclectic, admitting that he was a frustrated collector and that he preferred punch, for instance, rather than a straight wine. Beyond this, one got a hair-raising picture of the rigours of trying to live in the eighteenth century. Candlelight-in spite of Lady Richardson's complaints, gas-irons (ghastly anachronisms), the wearing of a wig to stop the head freezing in a house with inadequate heating (one or two bouts of Professorial coughing suggested that even this may not have been altogether effective). Not for me, thought ASTRAGAL, wondering how a man who felt the present century to be unreal could be bothered with talking on the radio . . .

ASTRAGAL



13 Essex Architects

P. L. Money, Deputy Director, TDA

Clarke and Gregory, A./A.R.I.C.S.

Dennis Bowman, A.R.I.B.A.

Walter Segal

A Divided Profession

John A. Nightingale

SIR,—We wish to endorse the views expressed by Mr. Milburn in his letter published in the JOURNAL for May 31, regarding prospects for the younger members of the profession.

The salaried members of the profession

The salaried members of the profession—as distinct from the employer and principal members—must indeed be in a poor way, when the essential and basic interests of these employers and principals are directly opposed to theirs as regards conditions and remuneration. The position is certainly grim when firms and authorities advertise for chief, principal and senior, qualified and experienced assistants at salaries in the range of £690 to £820 p.a. It is unfortunate that conditions exist wherein these posts are filled.

Let us admit it—the profession is fundamentally divided in respect of remuneration and conditions for its members. Is it not time we had a more realistic training for the assistant architect and for the architectural assistant? The training of the former should be of the present high standard of degree and diploma courses, enabling the assistant architect to fill the highest posts in the profession. The training of the latter should be of much shorter duration academically, the student receiving instruction in building construction, mechanics, draughtsmanship etc. We feel sure that a two-tier system of this kind would provide a more realistic labour market within the profession, lead towards a greater satisfaction amongst its members and would also further enhance the reputation of the profession.

J. G. WATSON (A), R. S. CHESHER (A), M. RUCHLEWICZ (A), J. A. BUCK (A), E. GREENWOOD (A), K. MUNNICH (A), R. THOMAS (A), A. PURCHASE, N. ROBERS (A), W. H. DAVIES (A), A. MERCER, STUDENT, RIBA, K. L. ABBOTT (A), J. N. GRAHAM (A).

Essex.

"You Can't Get The Wood"

SIR,—In your issue of May 17, ASTRAGAL, referring to the recent lecture tour by Professor Lasserre, made the astonishing statement that "Broadly speaking, we cannot get the timber because we cannot find enough dollars to pay for it." This sounds like a voice from the past. There is today no shortage of timber and no restriction upon the import of softwood from dollar sources. Last year, in fact, imports were higher than in any year since 1938, although a comparatively small proportion came from dollar areas. Stocks of softwood, hardwood and plywood are at a high level.

This is really all that I need to say, but your readers may be interested in the following details of our imports in 1955:—Sawn softwood imports totalled 1,656,000 standards, of which 445,000 came from Sweden; 423,000 from Canada; 320,000 from Finland, and 241,000 from the USSR.

Hardwood imports totalled 45,260,000 cubic feet, of which 12,085,000 came from West Africa; 3,382,000 from France; 3,228,000 from Japan; 3,152,000 from Sarawak; 3,130,000 from Yugoslavia; 2,218,000 from Canada; 1,796,000 from Malaya, and 1,302,000 from the USA.

Plywood imports totalled 15,134,000 cubic feet, of which 7,077,000 came from Finland; 2,570,000 from the USSR; 1,462,000 from Japan, and 1,421,000 from Commonwealth countries.

P. L. MONEY.

London.

A Correction And A Compliment

SIR.—We would draw your attention to a small error in the Information Sheet published in the JOURNAL for May 31. The 1½-in. seal indicated on the section through the trap is incorrectly shown from the bottom of the trap to the water level, i.e., the overall depth, whereas it should be from the bottom of the centre division, i.e., the "obstructed" depth.

We should like to take this opportunity of

We should like to take this opportunity of commending the staff of the JOURNAL on the very fine work they have done and are doing in assisting all members of the building industry in the monumental task of filing the mass of technical literature with which they are inundated throughout the year. We find your Technical Section and the Information Sheets extremely useful and the new arrangement of the JOURNAL is particularly helpful in speedy filing.

CLARKE & GREGORY.

London.

Unfair To Post-War Architects?

SIR.—My Society have asked me to bring the following to your notice:

It has been recently announced that a new town hall is to be built for Oldham and that the design is to be entrusted to a firm of architects who have had experience (mainly pre-war) in this kind of work. My Society was not approached in the matter: if we had been, our advice would have been the obvious one—an open competition.

our profession now has many talented designers who would jump at the opportunity to enter for such a competition. In general, the architects who made their names before the war did so through the medium of competitions and it seems only fair that post-war architects should be allowed to do likewise. It seems unlikely that the design would suffer.

gn would suffer.

DENNIS BOWMAN.

Oldham.

Trinity v. Mendelsohn

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MAN.

SIR.-I am sure Mr. Banham, whom I have Sir.—I am sure Mr. Banham, whom I have inspected in the meantime at close quarters, and who somehow disarmed me, will now let me have the last word in the matter of Trinity v. Mendelsohn. For by now he knows quite well that I am not a "mocker of the grey eminces," but one of their

of the grey eminces, but one of their seemingly renegade offsprings.

However, since Mr. Banham, though apparently not on his own free will, has been entrusted with the custody of the Trinity's dissolute grandchildren in this country he should not be so disrespectful to their elders for the mere sake of re-adjusting Mendelsohn's place in the Pantheon. Once more I feel I can smoothen for him the Face of Fact.

In the first version of the small house at Vaucresson, and oh, Mr. Banham, please look it up, Le Corbusier had a rounded look it up. Le Corbusier had a rounded staircase at right angles to the main elevation. Messrs. Storonov and Boesiger, the faithful élèves, gave prominence to the little horror so that the Master could record the change fatale in the design, e.g., precisely when he left the Velodrom d'hiver where the spectacle of greatness and unity (not my words) had a beneficial influence on the staircase. Other staircases were inspired by Bach's music.

Le Corbusier thought this a strong moment, full of portent on life, and Mr. Banham must be earnestly advised to accept his view and to desist from being ungenerous; many have striven for asymmetry in front and sym have striven for asymmetry in front and symmetry in the rear, and at Vaucresson the staircase could not assist both. Be fair, Mr. Banham; yes, and to the house at La-Chaux-de-Fonds too, a jolly good effort at 17 when the old man did still better than some of his grandchildren at 34.

And isn't Mr. Banham rather unbending in the matter of starts, particularly when outside his charge's care; but then, of course, art historians like their heroes to be either madly consistent or infuriatingly inconsistent.

inconsistent.

inconsistent.

The Haus am Horn was designed by Georg Muche in 1923; Breuer designed the furniture for the living room and the lady's room, Alma Buscher and Erich Brendel those of the children's room. Erich Dieckmann designed the dining room and the smoking room and Benita Otte and Ernst Gebhardt were responsible for the kitchen. The light fittings were designed by Alma Buscher, C. J. Jucker and Julius Pap. The decoration was in the hands of Alfred Arndt and Joseph Maltan. Yes, Mr. Banham.

and Joseph Maltan. Yes, Mr. Banham. So, while the facts groan I must thank Mr. Banham for having so graciously accepted my compliments on his side elevation; but this, naturally, belongs into the pro-vince of disarmament.

WALTER SEGAL.

London.

Mr. Banham replies: Last word willingly conceded—I am too busy digesting all this hard-to-find information on Haus am Horn to argue. Thank you, Mr. Segal.

SIR,-Most architects at some time in their lives get off the train at Basle, but few take the mile odd from there to Dornach to see Rudolph Steiner's concrete buildings mentioned by Mr. Segal.

One of their secrets is the convincing way they show the true nature and use of re-inforced concrete. Liberated from a pillar and slab construction which is really a convenient convention of our times it becomes capable of great expressiveness and of coming alive through the possibilities of double curvature.

I recommend this jaunt to all tired of the tyranny of rectangles.

JOHN A. NIGHTINGALE. London.

FACTORIES

Effect of Credit "Squeeze"

The following report on the effect of the Government's disinflationary measures on factory building appeared in the June issue of *The Times Review of Industry*:

The Board of Trade's figures for approvals of new factory space in the first quarter of the year show little sign that industry has not been greatly discouraged by the Govern-ment's disinflationary measures from plan-ning the expansion or renewal of capacity. In the first three months of the year 762 schemes with a total floor area of 21.675,000 sq. ft. were approved. Although in both number and area these figures were lower than in the first quarter of 1955, the area approved was biobar than in the highest than in the state of the approved was higher than in the third and fourth quarters of last year and was, in fact, the third highest figure for two years. Whether or not the effects of policy measures will be seen later in the postponement of approved projects removed to the content of the c ment of approved projects remains to be seen. In the past about 75 per cent. of approved schemes have been proceeded with.

with.

On their face value, the latest figures could be interpreted as indicating that the proportion of "starts" is being reduced. In the last quarter of 1955 only 438 schemes covering a total area of 10,500,000 sq. ft. were begun, compared with 651 schemes and 19,100,000 sq. ft. in the third quarter and 527 schemes and 13,400,000 sq. ft. in the last quarter of 1954. However, the figures for October-December, 1955, are not final and experience shows that they are later revised upwards by at least 15 per cent. Such a revision would bring the final quarter's "starts" to at least 12 m. sq. ft.

IUA

International Competition

Professor Sir Patrick Abercrombie will be Professor Sir Patrick Abercrombie will be one of the assessors in an international competition promoted by the Department of Public Works for the Republic and Canton of Geneva. The subject is the layout of the Place des Nations and of the approach to the Secretariat of the Palais des Nations in Geneva. The prize money will be 40,000 Swiss francs—to be awarded to a maximum of five entrants. The premiated entry will be bought for 10,000 Swiss francs.

Ouestions must be sent to the Department

Questions must be sent to the Department of Public Works, 6, rue de l'Hotel de Ville, Geneva, by August 15. Information can

be obtained from the Department on payment of 50 Swiss francs.

The closing date for the dispatch of entries is April 15. In addition to Professor Sir Patrick Abercrombie the assessors will be Jean Dutoit, Eugène Beaudouin, Jacques Carlu, Arnold Hoeschel, Giulio Minoletti, and Werner Moser.

BRISTOL

A Building Centre

A Building Bureau will be open in Bristol (opposite the Co-operative Society Building) from July 4 until August 18. If this pilot scheme is successful a permanent Building Bureau, run on the lines of the London Building Centre, will be opened at a later date. The director of the Bureau is Raymond Moxley, A.R.I.B.A., of 33, Park Street, Bristol, I.

LCC

Architect Appointed

Hubert Bennett is to succeed Dr. Leslie Martin as architect to the LCC. Hubert Bennett, who is now county architect to the West Riding of Yorkshire, thus becomes the West Riding of Yorkshire, thus becomes the profession's highest paid official architect and head of the largest local authority architectural and planning department in the world. Mr. Bennett is not a qualified town planner, but has the following architectural distinctions: Arthur Cates Prizeman 1953; Soane Medallist 1934; Neale Bursar 1936; and Godwin and Wimperis Bursar 1948. He is President of the West Yorkshire Society of architects. Society of architects.

Society of architects.

Hubert Bennett was trained at the Manchester school of art and at Manchester University. He taught for a time, after qualifying at the Leeds School, under Joseph Allen, before going into private practice. After the war he became Southampton's first borough architect. Then followed his appointment to the West Riding. His office as County Architect is at Wakefield. He has a staff of 250, who are housed in a 30,000 sq. ft. clerestorey lit purpose-made building designed by him. Illustrations of this building, and of the work of Mr. Bennett's office, were given in the Journal for June 2, 1955.

MOHLG

Battersea Tower

Duncan Sandys, Minister of Housing and Local Government, has agreed to the erec-tion, by Festival Gardens (London) Ltd., of tion, by Festival Gardens (London) Ltd., of a galvanised steel ascent tower, 15 ft. square and 162 ft. high, at the Festival Gardens in Battersea Park. Nevertheless, he has some doubt whether the design of the tower is as graceful and pleasing as it could be, and he insists that the detailed design shall be subject to further consideration by the LCC.

DIARY

J. B. Fischer von Erloch. Talk by Dr. S. Lang. At a RIBA Library Group meeting. At the RIBA, 66, Portland Place, W.I. 6 p.m. JUNE 25

AA Students' Forum. Discussion on the form of the Fifth Year Programme, including the design subject. At the AA, 34, Bedford Square, W.C.1. 7 p.m.

JULY 10

PROPOSED HOUSING ON THE ST. PETER'S HOSPITAL



The proposed housing on the St. Peter's Hospital site in Stepney for the Directors of Housing LCC (R.J. Allerton), was commissioned in May, 1954, and the design with cross-over maisonettes was put to the Housing Committee early in 1955. As far as the architects, Stillman and Eastwick-Field, are aware, this was the first time that such a scheme was considered and accepted by this committee. The original hospital which stood on this 14 acre site has been demolished and the area is to be developed at 149 persons to the acre, mainly with 3- and 4-room dwellings. In the sketch above, from the south-west, Vallance Road is on the left, Fulbourne Street on the right and the block of cross-over maisonettes is in the foreground. The more desirable solution, recommended by the architects, was to provide all the accommodation within a single high block, so as to leave a higher proportion of open space, and raise most of the dwellings above the level of the drab surroundings. This was modified after discussions with planning officers, who were considering the possible development of surrounding areas. As a result, the final scheme consists of two buildings. To the north there will be a 4-storey block of eighteen 4-room maisonettes. Bathrooms and W.C's in the tall block are internal and are sited above the access corridor. Mechanical extract ventilation for these rooms will be provided by the system adopted in LCC schemes now being built. Some of the advantages of this planning arrangement for maisonettes are that external wall space is not taken up by an entrance hall and door because access is to the centre of the building. This means that the cross walls can be closer spaced than is usual, the floor spans are shorter and all rooms can have windows across the full width of the external walls; communal circulation space is less than would be needed with access galleries. Associate-in-charge, R. Smorczewski.



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Plan, floors 2, 4, 6 and 8



Plan, floors 1, 3, 5 and 7

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Ground floor plan [Scale: 18" = 1' 3"]

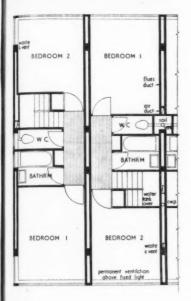


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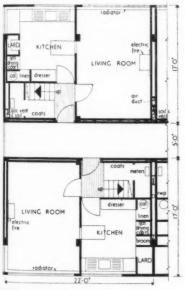
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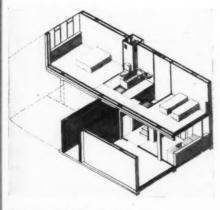
AL SITE, STEPNEY



Upper level



Typical plan, maisonettes, lower level



Arrangement of typical maisonette

WORK YOUR PASSAGE WITH

WORKING DETAILS

The AJ holiday offer closes on Monday

You have only a few more days (until June 25) in which to apply for your AJ holiday abroad with pay. Full details of our scheme to give you a holiday in return for some good Working Details of foreign buildings appeared on June 7, but in case you missed the announcement and have mislaid your copy of that issue, here is a reminder.

For Students Only: We will pay you between £20 and £40 in advance if you are selected from the applicants. And we will pay a further £6 6s. for each Detail we publish. So if you get enough suitable Details you can acquire enough money to cover your expenses. If you want to take part in this scheme please write to the Editors stating your proposed itinerary, how much you think the journey will cost you, what buildings you propose to get details of, and references to any periodical in which they have appeared. Your application, which will be considered on the basis of the most promising buildings and itineraries, must be accompanied by a letter of recommendation either from the principal of your school of architecture or from one of the principals of your firm.

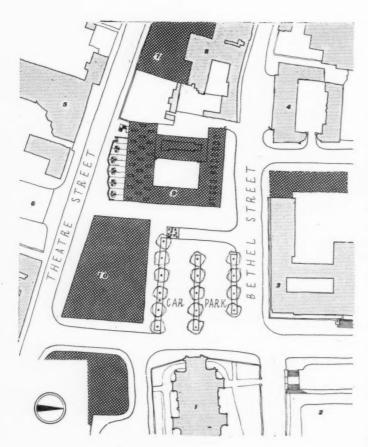
For Architects Only: If you are going abroad this summer and think you will have time to spare to look for Working Details, please let us know in advance (we want to guard against the remote possibility of duplication). You will not be paid anything in advance but you will get a larger fee (£8 8s.) for each Detail we publish.

Expenses: We will, of course, pay for the photography of Details by professional photographers whether or not the Details are used.

What you must do: We must remind you that a Working Detail—photograph, drawing, caption—is the most exacting item in architectural journalism: it has to show not only the form of all the elements which compose it (including such things as screws, dowels, etc.) but must specify all materials and finishes, must describe methods of fabrication and the way the pieces were put together (if either of these are at all out of the ordinary); and must give the architect's reasons for detailing as he did. It will be necessary to check the architect's drawings against what was actually built, and in some cases it may be necessary to make a measured drawing on the spot.

NORWICH CITY CENTRE: . COUNCIL APPROVES



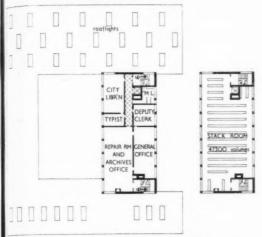


- I. St. Peter Mancroft
- Market Square
- City Hall
- Fire Station Theatre Royal
- Forecourt of Assembly Rooms
- College for Further Education
- Bethel Hospital
- Library
- 10. Concert Hall

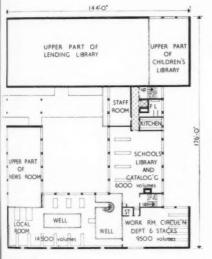
In the city of Norwich plan, prepared by the city council's consultants, C. H. James and S. Rowland Pierce in 1944, it was envisaged that a new library would be built after the war as part of the city centre to be developed round the city hall. A site has now been allocated south of the city hall and the sketch design illustrated here, prepared by David Percival, the new city architect, has been approved by the City Council. (See also Af for May 31). This provides for the library to form the western side of a new square, which will have the city hall as its northern side, the church of St. Peter Mancroft on its east side and a site to be reserved for the proposed assembly hall on the south side. (The sketch above shows the building from Theatre Street looking west). A decision about the use of the square for car parking or as an amenity area will be considered later. The architect suggests that a basement car park shall be provided as well; this-together with the ground areacould accommodate about 250 cars. The library will consist of a low-square block, having at its centre a paved courtyard. On the western side of the courtyard the building will rise to five floors in the form of a tower, whose height is carefully related to that of adjoining buildings. This tower will become an important element in the civic design of the city, since it will form the termination of vistas from the shopping centre to the east and play its part in the silhouette of the civic

Grou

PLAN FOR FLINT-FACED CENTRAL LIBRARY



Second floor and typical third, fourth and fifth floor plans



First floor plan

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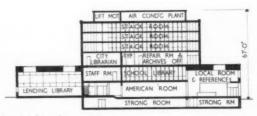


Ground floor and basement plan [scale: $\frac{1}{84}$ " = 1' 0"]

centre as seen from the northern part of the city. The facade towards the shopping centre is treated as the main elevation. The scheme allows for the whole of the accommodation used by the public to be on the ground floor. Students will be accommodated in a gallery in the reference room, which is on the first floor level. The open court round which the public rooms are grouped is intended to be decoratively paved and planted and provided with a small pool containing a fountain. The administrative rooms are at first and second floor level, the strong rooms and archives rooms in the basement, while the third, fourth and fifth floor levels of the tower are used as a stack. The stack will be linked to the public rooms and the administrative rooms by passenger, goods and book lifts. Vehicle service has been provided by a yard in the rear of the building. The architect's recommendation is that the building should be of reinforced concrete, with the ground floor elevations clad in knapped flint work, which would be made up from prefabricated panels. The detailed treatment is intended to be complementary to that of the Guildhall, which is constructed of knapped flint with stone dressings, and that of St. Peter Mancroft, which is in stone with knapped flint panels. It would have much in common in scale with these buildings. This would have the additional advantage of leaving the city hall as the unrivalled centrepiece of the composition. (Below: seen from the north-east of St. Peter Mancroft).

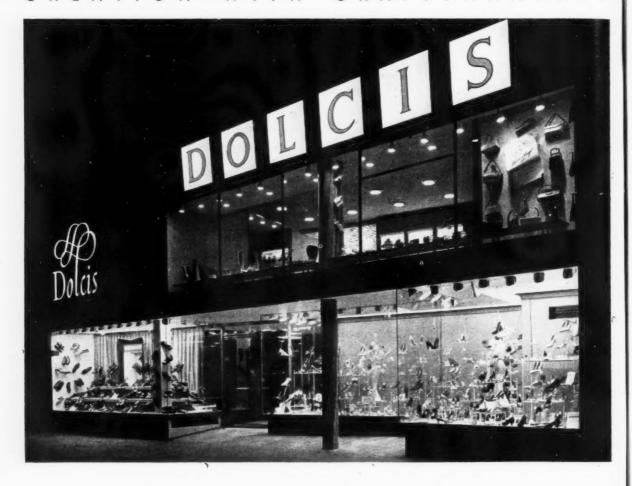






Section A-A

CREATION WITH CRAFTSMANSHIP



New Dolcis Shoe Shop, Charing Cross Road, London, W.C.2.

Staff Architect: Ellis E. Somake, F.R.I.B.A. Shopfitting Work by

Courtney, Pope Limited. Lighting by Courtney, Pope (Electrical) Limited.

THE ASSOCIATED COMPANIES OF

COURTNEY, POPE

COURTNEY, POPE LTD., Shopfitting, Architectural Joinery and Metalwork

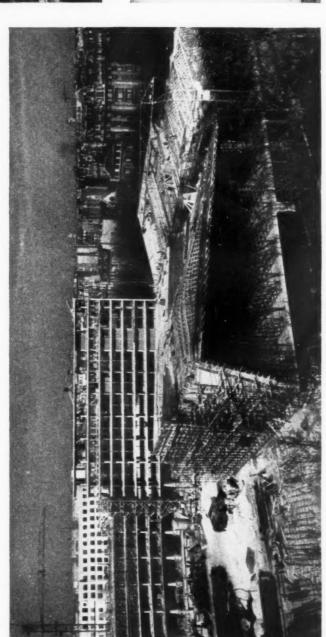
COURTNEY, POPE (ELECTRICAL) LTD., Lighting Specialists

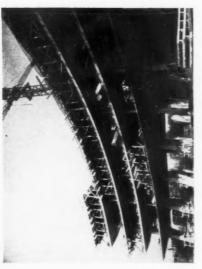
AMHURST PARK WORKS, TOTTENHAM, LONDON, N.15 . STAMFORD HILL 4266 (10 LINES)

structure provides the finished wall surface.

PROGRESS PHOTOGRAPHS OF UNESCO HEADQUARTERS, PARIS

P





The new Unesco headquarters in Paris is now, after the delays caused by controversy over the site, making rapid progress on the site finally allotted to it in the Place de Fontenoy behind the Ecole Militaire—just off the main axis marked by the Trocadero and the Eiffel tower. The joint architects are Marcel Breuer (U.S.A.), Bernard Zehruss (France) and P. L. Nervi (Italy), with Eugene Callison (U.S.A.) as site architect. As these latest progress photographs show, the reinforced

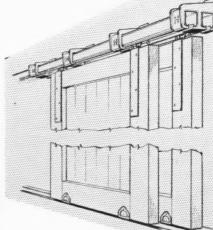
concrete carcase is up to its full height everywhere except in two wings of the Y-shaped secretariat, which can be seen in the background of the first picture. In the fore-t ground is the assembly hall. Above, two more views of the secretariat, showing its curved plan which follows the perimeter of the site. Left, a view from outside the site showing, right, an end wall of the secretariat and left, the auditorium in which the reinforced concrete



Straight-run Sliding Doors TOP HUNG SINGLE LINE DOUBLE PASSING

Ten sizes Copper-amalgam rust-resisting tracks, each with rounded troughs and offset for trolley clearance. Hangers with ball or roller bearings, rustless lubricators, positive vertical adjustment. Precision made for wood or for steel frame doors. Bottom Guide (many exclusive types) to aid sweet running and security, and to keep out weather. Drawing Office Trained Technical Representatives wait upon Architects anywhere and will, if required, visit the builder on site.

They ensure the right gear is selected and correctly fixed to provide a faultless job.





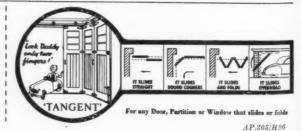
Send for List 955.

Mulliners Ltd., Birmingham 8. Architect: Harry W. Weeden, F.R.I.B.A. & Partners. Contractors: W. J. Whittall & Sons Ltd.

Henderson sliding door gear

P. C. HENDERSON LTD

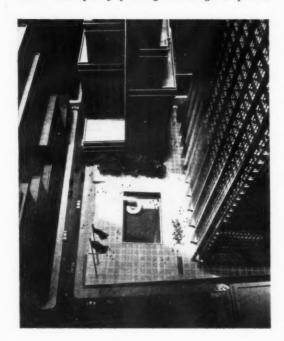
HAROLD HILL, ROMFORD, ESSEX Telephone: INGrebourne 4444



OPEN PLANNING IN NEW YORK



These details show the latest American attempts to utilize contemporary planning and design to provide



open planning in congested New York. This 60-storey office building, sited near Wall Street, New York, will be carried on 20 external and 20 internal columns. Designed by Skidmore Owings and Merrill for the Chase Manhattan Bank, the building will provide 1,700,000 sq. ft. of floor area and house about 15,000 workers. Four floors will be used exclusively for heating, airconditioning and other mechanical equipment, including mechanism for exterior window-washing platforms. There will be 42 lifts and 12 escalators. About 70% of the 21 acre site will be covered by a piazza with a sunken garden, pool and fountain. Below the piazza will be five 21-acre floors. The top one will be the public banking floor, with below it floors for cafeteria and recreational facilities, off-street loading and garages, cheque-handling and stock transfer departments. The bottom and smaller floor will be vaults. The tower will measure 810 feet high and 281 feet long by 107 feet broad. See also general view on page 699.

I knew it
when
it was
a tree...

Now it's really workable wood.

No knots. No trouble. Just pure wood,
compressed into sheets that
won't split or splinter or crack.
Just right for counters and
cabinets and linings for roofs.
It has any number of uses
but only one name . . .

it's now

Bowater Board

(you used to know it as Lloyd Board)



STANDARD AND SUPER HARDBOARDS, LEATHERGRAINED, REEDED AND PEGBOARD, INSULATION BOARDS AND 'TALON' FIXING SYSTEMS.

Building Boards Division, Bowaters Sales Company Ltd., Bowater House, Stratton St., London, W.1. MAYfair 8000

THE INDUSTRY

From the industry this week, Brian Grant reviews a booklet on conversion schemes and describes a new oil-fired boiler, a series of boilers, a new range of gas cookers and plastic top-lighting domes.

RESCUE OPERATIONS

Readers will remember that quite soon after the end of the war, Ascot Water Heaters produced a book called Houses into Flats, giving full details of a number of conversion scheme's. Government grants are now, of course, available for bringing sub-standard property up to a habitable minimum and in carrying out this work it is absolutely necessary to provide a proper supply of hot water and washing facilities. Ascots have therefore followed up their earlier publication, with another one called Houses into Homes which describes a number of conversion schemes carried out by a number of local authorities all over the country. Ascots, quite understandably, believe that the simplest way of providing a hot water supply is to use an instantaneous water gas heater, and most, though not all, of the schemes illustrated in this new book employ this method. The schemes are illustrated with clearly-drawn plans, which show all the alterations carried out, not only the plumbing. Cost figures are also given, broken down as far as possible, and form a useful guide to the possible cost of similar work.

The schemes illustrated show the use of various types of water heaters from the small sink unit to the larger multi-point and the newer balanced flue type. The publication also contains useful information about installation methods and tabulated performance data and details of all the standard Ascot water heater models. This is an excellent publication which architects should find useful, even though the Government "Operation Rescue"

scheme may not have turned out to be the universal cure that it was at one time expected to be. (Ascot Gas Water Heaters Ltd., 255 North Circular Rd., London, N.W.10.)

OIL-FIRED BOILERS

Janitor Boilers Ltd., have for some years been producing anthracite or coke-burning automatic boilers, with outputs from 40,000 Btu's. per hour upwards. They have now produced a new oil-fired version which, they point out, has been designed entirely for efficient oil burning, and is not a solid fuel boiler modified to take an oil burner. A net efficiency of 80 per cent. is guaranteed and two sizes are produced, with outputs of 200,000 and 125,000 Btu's. per hour. (Janitor Boilers Ltd., Vale Road, Camberley, Surrey.)

NEW IDEAL BOILER

Ideal Boilers & Radiators have now introduced a new No. 1 series of boilers intended for central heating and indirect hot water supplies. The boilers are produced in three versions intended for manual operation, for thermostatic control, or for use with oil burner equipment. Four sizes have been standardised with ratings varying from 35,000 to 65,000 Btu's per hour, the

prices of the thermostatically controlled versions varying from £33 6s. 0d. for the smallest to £48 14s. 0d. for the largest. The manually-operated versions cost about 30s. less for each model and the oil-fired types, which are supplied without grate bars and without the oil burner, are about £4 less. The standard finish is cream enamel with a black top plate. (Ideal Boilers & Radiators Ltd., Ideal Works, Hull.)

NEW GAS COOKERS

Radiation Ltd. have recently announced several new developments in their range of cookers. Two of the smaller models, 75 and 84, now have the fashionable eye-level grill, and although this reduces the capacity of the plate-warming rack to a certain extent, this is counterbalanced by the clear space left between the top of the oven and the hot-plate burners. The new grill also uses 10 per cent, less gas than previous models. The large model 3528 cooker has been redesigned and now has self-lighting burners working from pilot flames which are left burning continuously since their gas consumption is negligible. A separate gas match is used for lighting the oven, which has a bottom-hinged door and is held closed by a spring, with no mechanical latch.

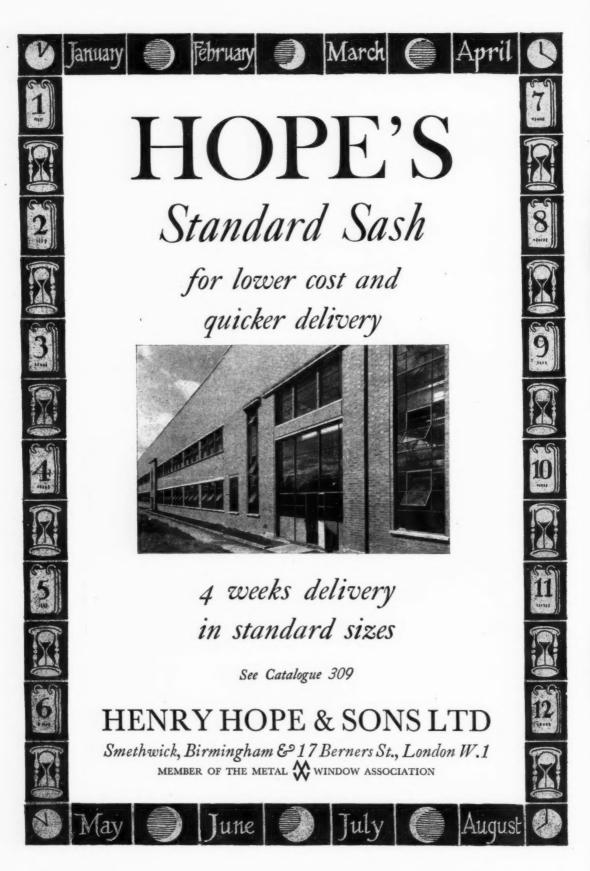
Below left: the new oil-fired version of the Janitor Boiler. Below: one of the new range of Ideal Boilers.





OARD,

fair 8080



technical section

Many people will also be glad to see the return of the old table-top cooker, now known as Model 71. This has the oven at the side of the hot plate (see illustration),

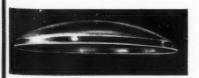


A table-top cooker (Model 71) from the new range of gas cookers by Radiation Group Sales.

both units being attached to a vitreousenamelled base. The cooker is mounted on legs which also carry a saucepan rack. The cooker can be ordered in either right- or left-handed form, the oven door being hinged to open away from the hot plate, but the cooker can, if necessary, be dismantled and reassembled with the two units interchanged. Standard finish is cream or white and the price is about £50. (Radiation Group Sales Ltd., 7, Stratford Place, London, W.1.)

PLASTIC TOP LIGHTING

Transparent plastics have for some time been available to replace the usual formed glass domes used for top lighting of corridors and other internal areas. The Duplus range



One of the circular Duplus plastic top-lighting domes by William Freer.

of dome lights is now produced with circular units varying in diameter from 24 in. to 48 in, with rectangular versions from 22 in. square to 58 in. by 40 in. The usual fixing method is to bolt the domes to clips which are fixed on the top of a wooden or metal kerb, and the manufacturers also produce ventilating units which can be added to the kerb of rectangular dome lights. William Freer Ltd., Wellington Street, Leicester.)

CURRENT PRICES FOR MEASURED WORK

prepared by Davis, Belfield and Everest, chartered quantity surveyors

Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor. Current prices of materials and rates of wages last appeared in the JOURNAL for June 7.

PRELIMINARIES

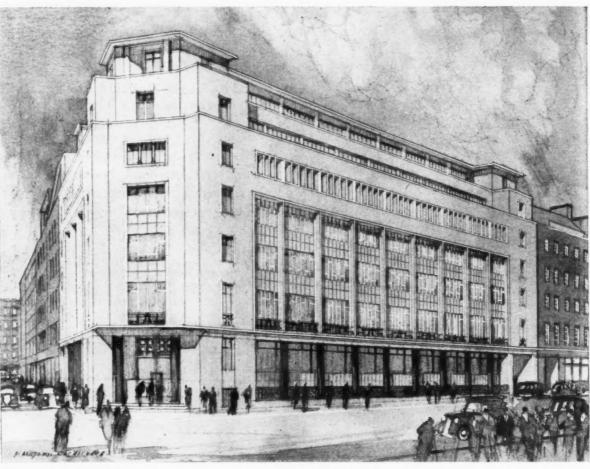
To all	valuat	ions for	mea	sured wo	rk add	for Pre	limina	ries,	
Wate	er and	Insuran	ces,	according	to the	nature	of the	job	
(say)	****	****	****	****	****	****	****	****	10%

Excavation

EXCAVATOR

N.B.—The following prices are applicable to h soil.	and excavatio	n in heav
Surface digging, 6" deep	Yd. super	1/2
Ditto, 12" deep	39	2/4
Excavating not exceeding 10' 0" deep to	27	-1-
reduce levels	Yd. cube	9/41
Excavating not exceeding 5' 0" deep to form	Au. Culo	0/12
		10/6
basement Ditto exceeding 5' 0" and not exceeding	2.2	10/6
Ditto exceeding 5 0 and not exceeding		1 5 10
10' 0" deep ditto Excavating not exceeding 5' 0" deep to form	22	15/3
Excavating not exceeding 5 0 deep to form		****
surface trenches	27	12/11
Ditto exceeding 5' 0" deep and not exceeding		
10' 0" deep ditto	99	17/7
Excavating not exceeding 5' 0" deep to form		
basement trench commencing 10'0" deep	17	22/3
Disposal		
Returning, filling and ramming around	***	
foundations	Yd. cube	4/2
Wheeling excavated soil not exceeding 100		
yards and depositing	**	4/8
Ditto and spreading and levelling	**	6/1
Ditto, ditto, and consolidating to make up		
levels under floors and pavings	**	7/9
Filling into lorries and carting away	**	15/-
		201
Planking and Strutting		
Planking and strutting to sides of surface or		
basement excavation not exceeding 5' 0"		
deep	Ft. super	-/8
Ditto not exceeding 10' 0" deep	22	-/10
Planking and strutting to sides of surface	99	, 10
trenches not exceeding 5' 0" deep (both		
		10
sides measured) Ditto not exceeding 10' 0" deep (ditto)	**	-/2
	,,	$-/3\frac{1}{2}$
Hardcore		
Hardcore filled in, in layers, each layer well		
rammed with a mechanical rammer	Yd. cube	19/8
Bed of ditto, 4" thick	Yd. super	3/31
	-	

CONCRETOR		
Concrete (Basic Prices)		
Portland cement concrete 1:3:6 with 1½" coarse aggregate in foundations and		
masses exceeding 12" thick	Yd. cube	69/10
Ditto 1:2:4 with 3" coarse aggregate ditto Add to basic prices for:—	99	76/1
Working around rod or mesh reinforcement	22	4/8
Being in beds less than 12" thick (6"-12")	**	2/4
Ditto less than 6" thick (4\frac{1}{2}"-6")	22	7/-
Being in small quantities not exceeding 3'		
cube	**	18/9
Being in suspended floors and roofs	**	14/1
Being in walls not exceeding 6" thick	**	23/5
Ditto exceeding 6" but not exceeding 12"		
thick	**	16/5
Ditto exceeding 12" thick	**	11/9



Lloyds Chambers, Crutched Friars

Architects: Messrs. Joseph F.F.R.I.B.A. Contractors: McLaughlin & Harvey Ltd.

The BISON contribution...

In 11 weeks from January 27th to April 16th this year — including a period of 4 weeks of almost continuous frost — we carried out on this contract

5,8co cu. ft. of encasure 25 flights of staircases

5,900 sq. yds. of precast flooring

These figures were achieved in an 8 storey building and roof erected in two phases and the work was completed only 10 days after the steelwork was finished.

... the **BISON** contribution always gives concrete advantages



CONCRETE LIMITED LONDON Green Lane, Hounslow, Middlesex. Hounslow 2323

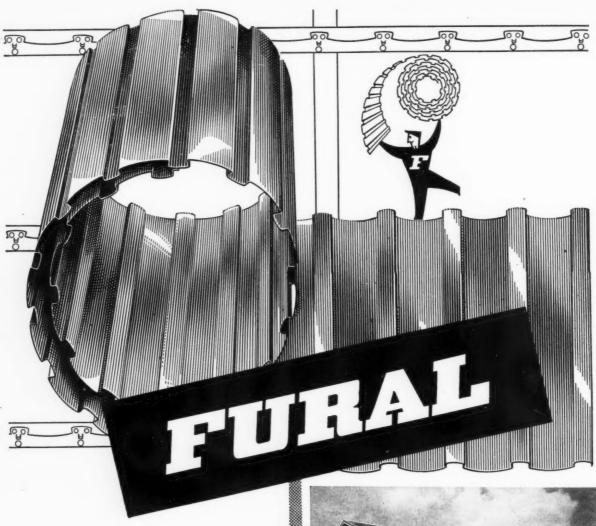
LONDON Green Lane, Hounslow, Middlesex. Hounslow 2323 LEEDS Stourton, Leeds, 10. Leeds 75421 LICHFIELD Dovehouse Fields, Lichfield, Staffs. Lichfield 2404 FALKIRK Etna Road, Falkirk. Falkirk 1930

technical section

CONCRETOR—(continued)	•••		_	
Add to Basic Price	for:-			
Being in lintels, beams, etc., not exceeding				12
72 sq. in. sectional area Ditto exceeding 72 and not exceeding 144 sq.		. cube		
Ditto exceeding 144 sq. in. sectional area		99	28 23	
Being in columns not exceeding 72 sq. in. sectional area		29	44	/6
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area Ditto exceeding 144 sq. in. sectional area		99	35 28	
Formwork		99	20	-
Flexible formwork to soffits of barrel vault		super	20	17
Close boarded formwork and supports to soffits of floors not exceeding 12' high		99		/11
Ditto to vertical faces of walls (both sides measured)		99	17	
Ditto to sides and soffits of lintols and beams Add to the above for wrot boarded formwork		super		/5½
and rubbing down concrete	Y d.	super	3	/1
Reinforcement				
f' to 1" diameter mild steel rod rein- forcement, hooked, bent and tied at				
intersections as required and fixing in		Cwt.	59	/8
½" diameter ditto		99	66	/6
I' diameter ditto Steel wire mesh fabric reinforcement to B.S.		9.9	80	/10
1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in				
concrete	Yd.	super		/10 /4
BRICKLAYER				
Common Brickwor	k		T	tough
	super	Flet 32	tons s	
Add to the above:— If in cement mortar (1:3)		_	/3	-/3
If circular on plan to flat sweep	22	5	/5	5/9
Ditto to quick sweep Half brick wall in cement lime mortar	22	10	/9	11/6
(1:3:9) Ditto built fair and pointed both sides	39			20/11
with a neat flush joint One brick wall built fair and pointed	27			23 /3
both sides with a neat flush joint 11" hollow wall with 2" cavity and	9,0	38		44/11
galvanized iron twisted ties Engineering Brickw	ork	38	/3	44/10
Reduced brickwork one brick thick in			gi- ing P uts l	
Half brick wall in cement mortar (1:3)	super "	48 26		85 /7 45 /2
Ditto built fair and pointed both sides with a neat flush joint One brick wall built fair and ditto	22	28 53		48 /4 91 /5
Sundries	**	00	10	01 10
Extra for internal fair face and flush				
Horizontal damp-proof course of two	super		1/4	
courses of slates and bedding and pointing Ft.	super		4/2	
Ditto of hessian base bitumen well lapped at joints	99		-/1	01
Fixing only metal window, size 1'8" × 4'0", including cutting and pinning lugs to brickwork, bedding frames				
and pointing in mastic one side	Each		9/8	
Ditto, 3' 3" × 4' 0" ditto Ditto, 6' 6" × 4' 0" ditto	99		14 /1 26 /4	
Partitions Clinker concrete solid partition blocks to B.S. 2028	2"	$2\frac{1}{2}''$	3"	4"
(Type B and C) and setting in cement mortar Yd. super Hollow clay partition blocks to B.S. 1190, keyed on	8/11	10/4	12 /3	14/10
both sides and ditto ,, Moler hollow partition	9/7	10/7	12/4	15/3
blocks, keyed on both sides and ditto ,,	21/-	22/3	23/6	28/11

BRICKLAYER—(continued)					
	Facings				White
					glazed
					facings p.c.
					1,504 /- M for
					stretchers 1,480/6M
Extra over common brickwork			Ord		for headers
built with bricks p.c.113/- M		*	fac	ings,	and point- ing with
for facings as described and			p.c. 256/6	p.c. 271/4	white
pointing with a neat weath- ered joint:—			M.	M.	cement
To solid wall in Flemish bond	Yd. suj	oer	16/-	17/-	
To cavity wall in stretcher					/-
bond	99		13/1	13/11	74/8
To ditto in Flemish bond	**				,
with snapped headers	12		15/6	16/6	-
Half brick wall in facings in	**				
stretcher bond built fair and					
pointed one side with a neat					
weathered joint	99		29/3	30 /1	-
Ditto pointed both sides			30/6	31/3	_
One brick wall in facings built			W 4 1W	** (3.)	
fair and pointed one side	22		54/5	55/1	
Ditto pointed both sides	99		55/7	57/2	_
Brick on end flat arch in facings					
4½" on soffit and 9" high and	Ft. r	113	3/5	3/6	_
Brick on edge coping to 9" wall	1.0.11	ALL	0/0	0/0	_
with two courses plain tiles					
under, laid breaking joint,					
two cement angle fillets and					
pointing	89		6/-	6/1	-
ASPHALTER					
NOT THE LER	Tanking				
				To B.S	. To B.S.
				1097	1418
Horizontal asphalt tanking in	three				
thicknesses on brick or concre	ete	Yd.	super	18/5	
Vertical ditto	****		99	23/8	33/7
	Roofing				
	Hoojing			To B.S	S. To B.S.
				988	1162
#" asphalt flat in two thickness	ses on				
and including felt underlay	****	Yd.	super	13/2	22/1
Asphalt skirting 6" high with	angle		•		
fillet at bottom and rounde	d top,				
turned into groove		Ft.	run	2/4	2/7
Asphalt fascia 6" high with					
water check roll at top and	under-			4.10	= 10
cut drip at bottom	****	9	9	4/6	5/3
DO LINE LUED					
DRAINLAYER		D 7			
	ches and				
N.B.—The following prices are	applicab	le to	hand e	xeavatio	n in heavy
soil, only requiring planking an	d struttir	ig for	depths	of 3' or	more.
Excavate trenches for 4"-9" planking and strutting, filling	pipes, inc	ludin	ıg		
planking and strutting, filling	ng in and	ran	11-		
ming, and wheeling and sprea For each 12" in depth, for	turng surf	nus:-			
ror each 12 in depth, 10	a brench				

cut drip at bottom	****	99	4/0	5/3
DRAINLAYER				
Tre	enches and B	eds		
N.B.—The following prices as soil, only requiring planking a Excavate trenches for 4"-9" planking and strutting, fill ming, and wheeling and spread	nd strutting pipes, inclu ling in and a eading surplu	for depths ding ram- as:—		
For each 12" in depth, is exceeding 3' 0" deep Ditto for trenches exceed			d. run	3/9
not exceeding 5' 0" deep Ditto for trenches exceed		and	**	5/4
not exceeding 10' 0" deep 6" concrete (1:3:6) bed and		_{je}	4"	8/4
for pipes		Yd. run	9/6	11/1
6" ditto, and surround	***	99	15/5	18 /7
	Drains	3"	4"	
Clayware butt-jointed land drains and laying in trench "Seconds" quality glazed	Ft. run	-/5	-/6	
stoneware socketed drains and laying and jointing in		4"	6"	9"
trench	22	2/3	3/3	5.4
ditto Extra on "Seconds" qual-	99	2/8	3/11	6,7
ity for bends Ditto "British Standard"	Each	3/7	5/3	15 2
quality ditto Extra on "Seconds" quality	22	4/5	6/6	19/4
for equal single junction Ditto "British Standard"	99	6/1	8/10	19/-
quality ditto	99	7/5	10/10	23/10
1		,		



LIGHT METAL ROOFING

Can be laid to pitch of 6 degrees. Secret Fixing-no bolts or nuts.

Low cost, light weight, maintenance free.

Rapid Fixing using Standard Flashings.

Crisp appearance for contemporary buildings.



Dit Cas

Dit Gla

Bro

Roe Green Neighbourhood Centre, Hatfield, Herts,
Architects:—Messrs. Lionel Brett and Kenneth Boyd, Chartered Architects.

FURAL ALUMINIUM ROOFING AND WALL CLADDING S. W. RONALD & CO (LONDON) LTD

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383 'C' Type Houses, Hazelgrove Estate, Hatfield New Town 97 'M' Type Houses, Hazelgrove Estate, Hatfield New Town. Compressor House, Shotton, for Wales Gas Board. Kodak Factory. 24 Star Flats. Plymouth. Perth High School. Burleigh House Secondary Modern School, Plymouth. C. of E. Primary School, North Weald, Essex. Ballymoney Primary School, Northern Ireland.

SOME COMPLETED FURAL CONTRACTS
Blocks of Flats, Paterlee, Co. Durham.
Larne Intermediate School, Northern Ireland.
De Havilland Aircraft Co. Design Block, Hatfield.
No. 4 Wind Tunnel, Bristol Aeroplane Co.
Queen Alexandra Hospital.

4 Blocks of Flats, Basingstoke. St. Mark's Presbyterian Church, Greenwich. Compressor House, Aberavon, for South Wales Gas Board, Old Hale Way Secondary Modern School, Hitchin, Herts, Herman Infants' & Junior School, Gorleston.

16 Blocks of Flats, Picton Street, Camberwell, St. Andrew's Church, Ipplepen, Devon.

Shops, Bedwell East Neighbourhood Centre.

Private House at Forest Hill, London.

DRAINLAYER—(continued)	SLATER, TILER AND ROOFER—(continued)
Cast iron socketed drains to	Tiles
B.S. 437 and laying and jointing in trench Ft. run 13/5 20/3 39/4	Hand Machine
Extra for short radius bend Each 27/4 66/2 173/9	Best sand faced plain (nibbed) tiles to made made B.S. 402 , $10\frac{1}{2}'' \times 6\frac{1}{2}''$ laid to a $4''$ gauge
Extra for single junction ,, 50/4 110/7 287/10	with each tile in every fourth course
	nailed with galvanized nails Square 212/8 198/5 Ditto hung vertically to dormer cheeks
Fittings, etc.	and gables to 4½" gauge with each tile
Glazed stoneware trapped gulley with galvan-	nailed with galvanized nails , 238/11 204/9 Berkshire hand made sand faced red pantiles
ized grating and outlet and setting in concrete Each 25/2 46/8	$14\frac{1}{2}$ " \times 10" laid to $2\frac{1}{2}$ " head and $1\frac{1}{2}$ " side laps,
Ditto with vertical inlet ditto , , , 31/3 52/9 Cast iron trapped gulley with high invert, grat-	each tile in every third course nailed with galvanized nails Square 208/5
ing, and 4" outlet and setting in concrete ,, 76/10 —	Ditto to mansard slopes ,, 220/6
Ditto with vertical inlet ditto ,, 87/8 — Glazed stoneware intercepting trap with inspec-	Bridgwater hand made Double Roman red sandfaced tiles 16½" × 14" laid to 3" laps,
tion arm, stopper and chain and fixing in	each tile in every course nailed with galvan-
manhole and jointing to drain , 79/7 92/9 Brown glazed stoneware half round straight	ised nails ,, 141/9 Concrete plain (nibbed) tiles to B.S. 473, 10½"
channels and bedding and jointing in cement	×6" laid as before described for plain tiles ,, 122/10 Ditto hung vertically to dormer cheeks, and
mortar Ft. run $2/1$ $3/1$ Ditto ordinary channel bend and ditto Each $6/3$ $8/10$	gables ditto 152/3
Cast iron coated single seal manhole cover and	Concrete interlocking tiles 15" × 9" laid to 3"
frame to B.S. 497 Grade C and setting frame $24'' \times 18'' 24'' \times 24''$, in cement and cover in grease , $49/7$ 73/4	lap, each tile in every third course nailed with galvanized nails , 91/11
Galvanized ditto ,, 83/3 126/4	Ditto to mansard slopes ditto 98/9
	Asbestos Cement
PAVIOR	6" corrugated asbestos cement sheeting fixed
Cement and sand (1:3) floated \$\frac{1}{4}" 1" 1\frac{1}{4}"	to wood roofs with galvanized drive screws and washers with a side lap of 1½ corrugations
screed to receive pavings Yd. super 3/11 4/9 5/4	and an end lap of 6" , 111/4
Ditto trowelled smooth to receive linoleum ,, 4/4 5/2 5/9	6" ditto but fixed vertically ,, 122/7 Add to both last if fixed to steel purlins or
Cement and sand (1:3) paving	sheeting rails with galvanized hook bolts , 5/3
trowelled hard and smooth , $4/4\frac{1}{2}$ $5/2\frac{1}{4}$ $5/9\frac{1}{4}$ Uranolithic paving $(1:2\frac{1}{4})$ laid on $1''$ $1\frac{1}{4}''$ $1\frac{1}{4}''$	Felt
concrete ,, 6/10 7/9 8/8	Reinforced bituminous roofing felt laid with 3"
y red composition paving to B.S. 776 laid on prepared screed Yd. super 16/7	laps and nailed to rafters at 18" centres with galvanized clout nails , 22/4
f terrazzo paving (Portland cement and spar	Two Three
aggregate) laid on prepared screed ,, 38/4 Extra for white or cream cement ,, 5/3	One-ply bitumen felt to B.S. 989 laid on layer layer concrete. Each layer bedded in hot
y rubber flooring in all colours, laid on pre-	bitumen Yd. super 9/5 12/7 Extra on last for finishing with granite
$\frac{1}{4}$ × 12" × 12" rubber tile flooring ditto , 45/8	chippings , $-/9\frac{1}{3}$ $-/9\frac{1}{2}$
\$\frac{1}{2}" \times 12" cork tile flooring (brown shades) laid in mastic on prepared screed,	
surfaced and polished ,, 45/11	CARPENTER
6" × 6" red quarry tile paving to B.S. 1286 laid on prepared screed with	Carcassing
straight joints Yd. super 28/7 32/2	Softwood, sawn and fixed, in plates, sleeper joists and lintols Ft. cube 15/10
6" × 6" buff quarry tiles as last ,, 32/1 36/3 24" (finished) gravel path laid on pre-	Ditto in floor and ceiling joists ,, 18-
pared bed, well watered and rolled to	Ditto in stud partitions, purlins and struts ,, 20/-
oambers and falls ,, 3/-	Ditto in hip and valley rafters including cutting
	rafters to sizes
MASON	Battening and Boarding
Portland stone and all labours in pilasters,	Roof Vertical
and quoins Ft. cube 52/- Ditto in jambs, lintols, etc ,, 54/3	$\frac{3}{4}'' \times 2''$ battens nailed to softwood for slope hanging $20'' \times 10''$ slates to $8\frac{1}{4}''$ gauge Square $34/11$ $37/-$
Ditto in arches ,, 67/9	Ditto $16'' \times 10''$ slates to $6\frac{1}{2}''$ gauge , $44/8$ $47/3$ $\frac{1}{4}'' \times 1\frac{1}{4}''$ ditto for $10\frac{1}{4}'' \times 6''$ tiles to $4''$
Ashlar av. 6% on bed with plain dressed face Ft. super 30/8 Port- Arti-	gauge ($4\frac{1}{2}$ " for vertical hanging) , 57/9 53/7
Portland stone or artificial stone to land ficial	Roof
B.S. 1217:— 44" × 4" sill, sunk, weathered, throated	$\frac{2}{4}'' \times 2''$ ditto for $14\frac{1}{2}'' \times 10''$ pantiles to
and grooved for water bar, set and	12" gauge
jointed in cement mortar Ft. run 10/9 4/6 9" × 3" ditto , 14/- 6/10	interlocking tiles to 12" gauge , 19/5 20/6
2" × 12" Coping, weathered and twice	Roof boarding in batten widths close #" 1"
3" × 12" Ditto 17/- 9/1	Ditto tongued and grooved and pre-
5" × 12" Saddle back coping twice throated, set and jointed as last , 26/6 13/10	pared for felt roofing including firring to falls
6" × 12" Ditto , 33/6 15/7	Sawn gang boarding fixed to joists in roof Ft. super 1/4 1/7
	Wrot and crosstongued eaves soffit ,, 2/2 2/6 6" wrot and grooved eaves fascia
STATED THE ED AND DOCUMEN	planted on Ft. run 1/- 1/2
SLATER, TILER AND ROOFER	Wall and Ceiling Boards
Slates 20" × 10" 16" × 10"	I" fibre board to B.S. 1142 fixed with Verti-
Best Bangor slates to B.S. 680 laid with	galvanized flat headed nails to soft- cally Soffits
3' lap, each slate nailed with two stout copper nails Square 391/2 303/5	"asbestos cement flat sheeting to
Ditto hung vertically to dormer cheeks	B.S. 690 fixed as last
and gables ,, 396/5 311/4	•



technical section

-0	TARK	E 1	n

307			Skirting	_
- # 1	cors	ana	SERVING	21

(AII	thicknesses	stated	970	nominal	Ĺ

(22)	n vinoki	HCOGCO DVD	wou	are nom	miest)				
Plain edge softwood i widths nailed to flo Tongued and grooved	oor jois	ts	**	Square		1" 165/9 178/-			
I' double grooved as	nd tons	rued and	gro	ved woo	d bloc	k floor			
laid herringbone with two-block border, set in hot mastic omposition on prepared screed and wax polished:—									
Swedish softwood		****	****		Yd.	super	29/5		
European beech		****		****		,,	32/4		
English oak	****	****				99	54/7		
European oak	****	****		****		19	42/-		
Burma teak		****				11	54/7		
Australian jarrah	****	****					38/10		
Softwood skirtings				****		Section			
molded top edge, p				Ft.		3" to 6"	Over 6" -/2		
Extra for grounds pl	ngged	to brickw	ork				. /9		

Windows in Softwood

Rebated and molded and casement sas				Ft. super	11"	2"
squares for glass	****	***	****	Ft. super	2/1	0 3/4
Extra for hanging			****	Each	5/6	5/6
Cased frames with 6" : molded double hun						,
pulleys, line and we	ights			Ft. super	-	12/7
N.B.—The above pattern casement wi	prices indows	are fo	r purp	ose made join	ery.	Standard
B.S. 644 are cheaper.						

Doors in Softwood

2" 6/1
6/1
6/4
6/8
ndard
50/2
77/1

Linings, Frames, etc., in Softwood

		Sectional area
Window and door linings etc. (per inch		Up to 6" 6" to 12"
in sectional area)	Ft. run	-/4 -/4
Frames wrot all round and framed		
(ditto)	99	$-/3\frac{1}{2}$ $-/3\frac{1}{2}$
Mullions, transomes and cills (ditto)	99	-/4 -/4 2" to 4" 4" to 6"
		2" to 4" 4" to 6"
Moldings, architraves, etc. (ditto)	99	$-/4\frac{3}{4}$ $-/4$
6" Window boards with rounded nos-		Thickness
ings, tongued at back and including		1" 11"
bearers	111	$\frac{1''}{3/-}$ $\frac{11}{3/3}''$
Extra for each additional 3" width	99	-/61 -/8

Shelving and Fittings in Softwood

Shelving of 2" slats spaced 1" apar	rt on		7"	1"
bearers (measured separately)		Ft. super	2/5	2/10
Shelving on ditto	****	99	2/3	2/10
Cross tongued shelving on ditto	****	22	2/6	3/2
Shelving 9" wide on ditto	****	Ft. run	1/10	2/3
2" shelf bearers plugged to walls		**	-/8	-/10
The following in framed up cupb	oard fit	tings:		
T. & G. & V-jointed back	****	Ft. super	4/-	4/8
Cross tongued top, bottom she	lf or			
division	****	99	4/1	4/9
la flush cupboard doors	****	22		6/5
Labour rebate or groove	****	Ft. run		-/2
Labour cross-grain	****	**		$-/2\frac{1}{4}$
l" × 2" bearers screwed on		**		-/10
N.B.—The above prices are	for p	urpose-made	cupboard	fittings
Standard pattern kitchen fittings				0

IRONMONGERY

		Soft- wood	Hard- wood
3" steel butts (medium quality)	Pair	5/8	7/1
4° ditto (ditto)	92	7/7	9/3
Double action floor springs and top centres including filling boxes with oil P.C. 149/3 Overhead check action door springs, P.C. 66/8	Each	185 /3 86 /6	192/3 90/10

IRONMONGERY (continued)

				Soft- wood	Hard
6" barrel bolts. P.C. 5/6	****		Each	7/11	8/7
Cupboard locks. P.C. 8/2	****		99	12/11	14/3
Norfolk latches. P.C. 5/6	****		99	11/4	13/1
Cylinder night latch. P.C. 15/1			99	24/1	26/3
Mortice latch. P.C. 9/4	****	****	99	15/6	17/3
Rim lock. P.C. 10/	****	****	99	14/11	16/3
Mortice lock. P.C. 15/2	****	****	22	23/3	25/5
Door furniture. P.C. 24/	****	****	Set	27/9	28/2
Sash fasteners. P.C. 9/	****	****	Each	12/-	12/8
Casement fasteners. P.C. 7/11	****	****	99	10/4	10/10
Casements stays. P.C. 11/6	****	****	99	14/3	14/9

STEEL AND IRONWORKER

Structural Steelwork

The following price	es are f	or Basic	sections	only.	Prices	for	oth	er
sections vary roughl								
see " Current Market				00 01 01	10 00001	V.A. L		
						-		-
R.S.J.—in steel fram	ed struct	ures hou	sted and i	ixed			8.	
complete					Ton	69	10	0
Riveted compound	girders	including	o nlates	and				
	-					01		0
					99	81		0
R.S. stanchions inclu	iding cap	s, bases,	cleats, et	tc	99	80	5	0
Riveted compound s	tanchion	s ditto			22	86	0	0
Riveted roof trusses					**			
						100	0	0
plates, cleats, etc.					212	120		0
Ditto 40' span		*** ****	****	****	99	113	0	0
		Sundr	ries					
Simple wrot iron	halustr	ades fix	red com	nlete				
					Chank	10	10	0
(excluding mortice					Cwt.	12		
Bolts with heads, nu	its and w	ashers a	nd fixing	****	9.9	12	14	0
			_					

PLASTERER AND TILE FIXER

24 gauge	expand	ed	metal lath	ing a	nd fixin	g to		
softwood	soffits						Yd. auper	6 /2

Lime and Gypsum Plaster

01		
Three coat lime and two coat "Sirapite" or similar gypsum plaster:— On brick walls and partitions Yd. s	uper 7/-	Sirapite" 5/6
	,, 8/7	7/9
	., 7/3	8/6
§" Gypsum plasterlath fixed to softwood soffits, in accordance with manufacturer's instructions, finished with setting coat of		
suitable plaster	Yd. super	8/5
Plaster moulded cornice or cove (per inch in	,	
girth)	Ft. run	$-/5\frac{1}{2}$
Cement Rendering		
Rendering in Portland cement lime sand (1:1:6)		

Cement Rendering		
Rendering in Portland cement lime sand (1:1:6) and setting in Keenes cement on brick walls and partitions	Yd. super	6/9
Portland cement and sand (1:3) plain face trowelled smooth on ditto	99	6/3
Portland cement and sand (1 : 3) screed for tiling on ditto	**	3/3

	wan 1 ner		
wall tiles se	" standard quality white glazed t and jointed on prepared screed	Yd. super	45/2
Ditto eggsnen	matt or glossy glazed enamelled	99	55/2

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER

		Flats	flash- ings, etc.	flash- ings
Milled sheet lead and labour	Cwt.	232/9	249/3	264 /2
24 S.W.G. sheet copper and	super	6/9	7/1	7 4
23 S.W.G. sheet copper and labour ,		7/-	7/4	7/7
14 gauge zinc and labour ,		2/10	3/1	7 /7 3 /3
20 S.W.G. super purity aluminium and labour		5/3	5/3	5/3
20 S.W.G. commercial quality aluminium and labour		4/21	4/21/2	4/21

Rainwater Pipes and Gutters

Cast iron medium section (# metal) R.W. pipes and jointing and fixing to walls with		3		4	,
pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured		With holder- bate		With holder- bate	
separately)	Ft. run	$6/2\frac{1}{2}$	4/11	7/8	6/31

technical section

EXTERNAL	PLUMBER	AND	COPPERSMITH	AND	ZINC
WORKER-(continued)				

		3"		3"		4"	
			nails	With holder bats			
Pressed steel R.W. pipes and		24	G.	20 G	· ·		
ditto	Ft. run	4/1	3/51	5/10	5/1		
Asbestos cement R.W. pipes							
and ditto	99	3/1	-	3/11	-		
Cast iron half round eaves		4"		6'	,		
gutter and jointed and fixed with brackets to fascia		1"	3 " 4 /-	1" 5/11	16 /-		
Diu - O O 1111	99	2/11	9 /101	5/7	7/6		
18 Gauge pressed steel half	99	2/11	3/102	3/1	1/0		
round ditto	99	3/	l	4/2	2		
Ditto O.G. ditto	99	3/		4/1			
Asbestos cement half round	**	,	_	-/-			
ditto	99	2/9)	4/1	l		

Soil and Ventilating Pines

Sou ana	rentuating	ripes			
Lead soil, waste and ventilat- ing pipes (15 lb. per yard for 3" and 19 lb. per yard for 4"					
diameter) fixed to walls with		2	m.	A	
lead tacks and brass screws	Ft. run	14/5		20/-	
Medium or heavy section cast					
iron soil, waste and ventilat-			Med-	Heavy	Med-
ing pipes with caulked joints,		13"	ium	11 "	ium
fixed to walls, with pipe			16 6/-		8/2
nails and distance pieces	99	6/7	6/-	8/6	8/2

INTERNAL PLUMBER

L	ead	Pi	nes

Price	es are	based	upon	the follow	ing	weigh	ts per	yard.	
						1"	1"	1"	11"
						lb.	lb.	lb.	lb.
Supply	****	****	****	****		7	11	16	28
Distributing	****	****	****			4	5	7	9
Flushing and			****	****		_	4	5	6
Waste and ve			****	****		-	-	-	6
Supply pipe	in tr	ench	(mea-			1"	3"	1"	11"
sured separ	ately)	****	****	Ft. run		4/5	6/8	9/51	
Ditto fixed to	walls	and ce	ilings	29		5/-	7/5	$10/6\frac{1}{2}$	18/-
Distributing p	pipe fi:	ked to	walls						
and ceilings	3	****	****	99		3/8	4/4	5/9	7/-
Flushing and				99		_	3/6	4/-	5/6
Waste and ver	ntilati	ng pip	e ditto	99		_		-	6/8
Joints to fitti	ngs		****	Each		6/21	6/10	7/4	8/2
Bends	****	****	****	99		_	-	-	2/51
Branch jointe		****	****	19		7/5	8/9	9/2	10/9

Steel Tubes and Fittings

Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (meas- ured separately) Ditto Class B ditto fixed to walls and oeilings as supply,	Ft. run	2/5		2/11	3/7
distributing, waste pipe, etc.	- 99	2/41	2/8	2/101	3/5
Joints to fittings	Each	$\frac{2}{4\frac{1}{2}}$	2/8 5/5	6/21	7/4
Bends	- 99	-	-	4/61	6/5
Tee, equal or reducing	"	2/61	3/1	3/8	5/1

	Cop	per T	ubes and	Fitt	ings			
Prices are based u	pon the	follow	ing gauge	8 :-	_			
Supply		****			18	₹″ 17	1″ 16	1½" 16
Distributing, was	te, etc.			****	19	19	18	18
Copper tubes to supply pipe la (trench measure	B.S. 1386 id in tre	s, as	Ft. run		2/4	3/5	4/9	6/3
Ditto to B.S. 659 ing, waste pipe	as distri	but- ixed						,,
to walls and ce		****	9.9		2/4	3/-	4/2	5/11/2
Brass compression lings—copper t			Each		5/6	6/5	8/9	11/-
Ditto bends			**		7/2	8/3	11/11	14/11
Ditto tees	**** -	****	"		9/2	10/3		22/10

Sanitary Fittings

Fireclay sinks 24" × 18" × 10" including cutting		£	S.	d.
and pinning brackets to tiled wall. P.C. 75 /	Each	5	18	0
Combined metal sink and drainer 42" × 18" × 81"				
to bearers (measured separately). P.C. 330 /	99	19	3	0

INTERNAL PLUMBER-(continued)

s and ets to bath	Each	£	16	
d one ately)				
****	99	23	0	
level an to				
. 200 /-	22	12	10	
****	22	14	10	

18 oz. Ordinary quality sheet glass and		To wood	To
glazing with putty in squares	Ft. super	1/11	1/24
24 oz. Ditto and ditto	29	1/31	1/41
32 oz. Ditto and ditto	99	1/81	2/01
1" figured, rolled, and cathedral-un-			
tinted and ditto	22	1/5	1/6
1" rough cast and ditto	**	1/8	1/9
1" wired cast and ditto	99	1/101	1/11
I" Georgian wired cast and ditto	19	1/103	1/11
I" Georgian wired polished plate and	,,		-12
ditto	11	7/31	7/4
1" polished plate (glazing quality) and	**	1-2	
ditto (In squares 5-45 ft. super).	**	7/3	7/31

PAINTER

Whitening, Distemper and Paint on Walls

Prepare and twice whiten plastered ceilings Prepare and twice distemper with washable	Yd. super	1/4
distemper on plastered walls and ceilings	99	1/10
Ditto on brick or concrete	99	2/6
Prepare and paint two coats emulsion paint on plastered walls	99	2/9
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	**	5/1

Paint on Metal

Prepare, prime, and paint one coat oil		Basic price	Add for each ad- ditional coat
colour on general surfaces	Yd. super	3/3	1/6
Ditto metal casements	22	5/2	2/3
Ditto members of roof trusses	99	4/3	1/104
Ditto balustrades one side	99	5/2	2/3
Ditto bars, etc., not exceeding 6" girth	Yd. run	-/10	-/41
Ditto small pipe	99	-/10	-/41
Ditto large pipe	99	1/9	-/9

Paint on Wood

1 46166 016 11 000	Lib		
Knot, prime, stop and paint one coat oil colour on general surfaces of wood-		Basic price	Add for each ad- ditional coat
work	Yd. super	3/8	1/6
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	Yd. run	-/6	$-/2\frac{1}{2}$ $-/2$
Ditto ditto for each additional 3" in girth	99	-/5	-/2
Ditto on sash squares one side	Dozen	4/11	1/11
Ditto on large sash squares one side	99	8/10	3/5

Stain and Varnish on Wood

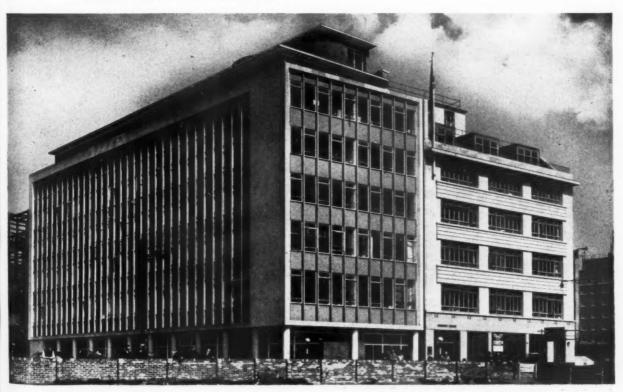
D to state and trains wernish on		
Prepare, size, stain and twice varnish on		
general surfaces of woodwork	Yd. super	4/1
Ditto on skirtings, rails, frames, etc., not exceed-		
ing 3" girth	Yd. run	-/6
Ditto ditto for each additional 3" in girth	99	-/6

designed by HANDISYDE and TAYLOR in association with HAMMETT and NORTON assistant architects, ERIC MAYNE and B. P. WARD consultants, structural, CLARKE, NICHOLLS and MARCEL

quantity surveyors, SELBY and SANDERS

It has been hard to discover any office building erected in or near the City of London since the war which has merited close examination. The building described here deserves attention because it is one of the first to show signs of a serious appreciation of present requirements of office use, and the first in which those requirements have been answered in terms of rational constructional techniques.

Viewpoint 1: the offices from the south-west.



Offices in Chiswell Street, London E.C.1

Add for each additional coat 1/6 2/3 1/101 2/3

£ s. d. 8 16 0

3 0 (

To metal 1/2½ 1/4½ 2/0½

1/6 1/9 1/11 1/11

7/4

7/31

1/4

2/6

2/9

-/4½
-/4½
-/9

Add for each additional coat
1/6

-/2½ -/2 1/11 3/5

4/1 -/6 -/6

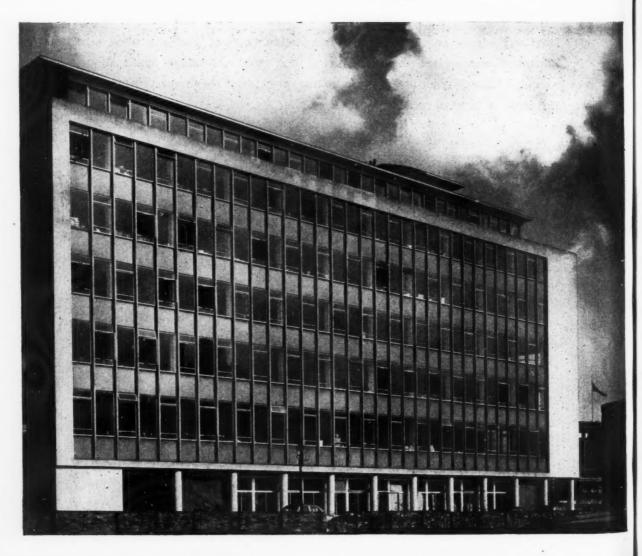
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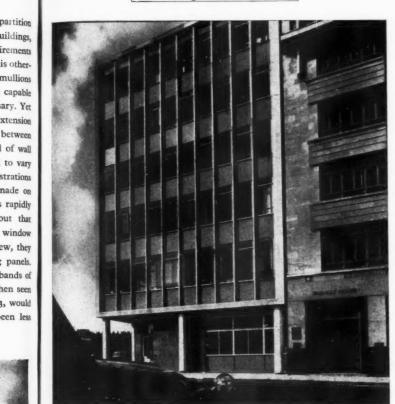
Arb.

building illustrated H.A.C. Playing Fields FRIENDLY HSE BUNHLL ROW 3 MOOR LN 3 T

Key plan showing photographic viewpoints.

Below, viewpoint 2: the need for flexibility of partition arrangements has long been recognized in office buildings, particularly where, as in this instance, tenants' requirements in this respect may not be known until the building is otherwise complete. From this it follows that window mullions should occur at close and regular intervals and be capable of receiving the ends of partitions wherever necessary. Yet it must be doubted if the same logic justifies the extension of mullions above and below the windows, since between sill and head an uninterrupted unmullioned band of wall would be equally effective, there being little need to vary sill heights. However, a study of the following illustrations will show that in this instance a case can be made on townscape ground for the use of a cliche which is rapidly becoming tiresome. And the architects point out that although the mullions could be omitted between window sill and head from a purely structural point of view, they do hold the framing to the coloured glass-facing panels. At the sketch design stage continuous horizontal bands of Portland stone were considered, but the result, when seen against the existing building, shown in viewpoint 3, would have been unsatisfactory. (It would also nave been less economical).



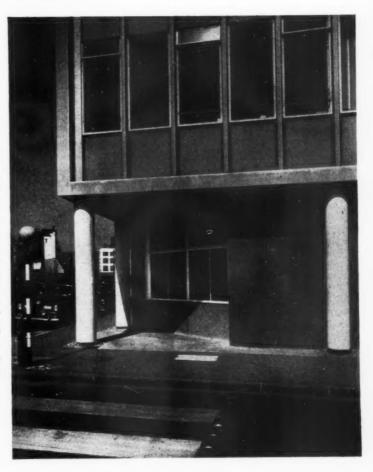


strations



OFFICES in CHISWELL STREET, E.C.I designed by HANDISYDE and TAYLOR

Above, viewpoint 3: This is the only full-face view which will be obtainable when the bomb-damaged surroundings have been built up. The new building is, in effect, an extension to an existing office block (Friendly House) seen to the right, which though crudely detailed has a certain rugged vigour complimenting and complimented by the restraint of the "curtain walls" which now adjoin it. The latter consist of pressed steel mullions with infilling panels of turquoise coloured glass. Facing to the solid walls is Portland stone, except on the ground floor where both terrazzo and Westmorland slate are used, and on the curved tank house wall (on the roof) which is rendered. Above right, viewpoint 4: the building will mostly be seen by pedestrians walking parallel with the facade, and in this fact can perhaps be found the greatest justification for the continuous mullion of the "curtain wall." Without it the long horizontal strips of alternating wall and window might have been gaunt and unarticulated. In addition the curtain wall provides a simple street background, contrasting effectively with the greater detail provided at eye level by the free-standing columns and the different finishes of the wall recessed behind them. Right, viewpoint 5: interest of detail is obtained by Westmorland slate, terrazzo and cobbles round the column bases. A deep gutter runs along the bottom of both curtain-walled facades to dispose of the rainwater which collects on the large areas of impervious material.

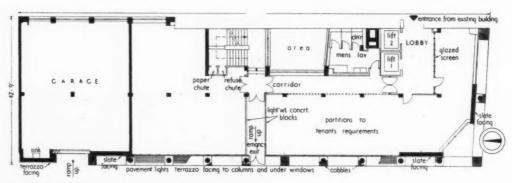


building illustrated no 21-23 SECY OFFICE SECY OFFICE AREA EXEC. OFF wood block finish artly glaz T cupb. CUDD. WAITING SECY screen to QUALITY SAMPLE GEN. TYPING OFF. INVOICING EXEC. OFF. EXEC. OFF DISPLAY EXEC. OFF. EXEC. OF GENERAL OFFICE CONT. LAB & DISP 4 3 2

First floor plan

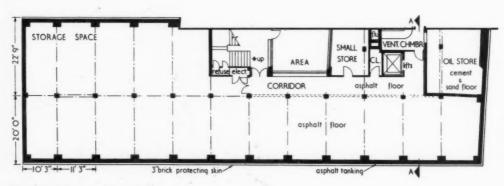
The detailed partitioning of all floors is, apart from the stair-lift-lavatory nucleus, carried out to tenants' requirements. The floor illustrated above represents only one of the many arrangements possible. It should be noted, however, that where there is more than one tenancy on a floor all corridor walls must be of solid incombustible material.

However, in the floor illustrated the fact that there is only one user enables the corridor partitions to be of the light demountable type. An exception is made in partitions surrounding executives' rooms, when a higher sound-reduction factor is required; here the partitions are of masonry construction.



Ground floor plan

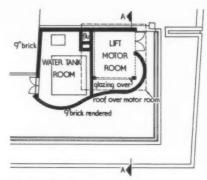
As with other floors, the partitioning is to suit tenants requirements. The main entrance at the moment is by way of the existing entrance hall to the parent building (which, since a link is provided with it on every floor, affords the alternative means of escape); but provision has been made for a separate entrance off the corner of Bunhill Row and Chiswell Street should this ever be required.



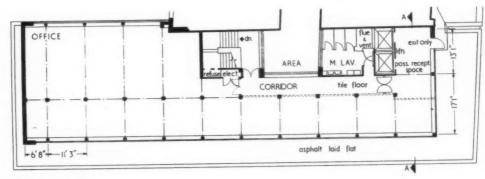
Basement plan [Scale: 24" = 1' 0"]

The free space in the basement is divided as required into storage space lettable to the tenants.

Below: the set-back required by town planning and daylight considerations means an awkward steelwork arrangement with sixth-floor stanchions resting on beams below. Bottom (viewpoint 6): close view of curtain wall on sixth floor.



Part roof plan

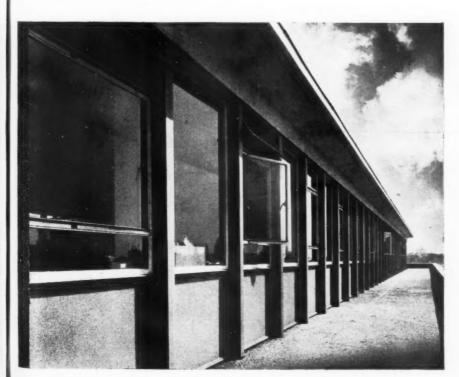


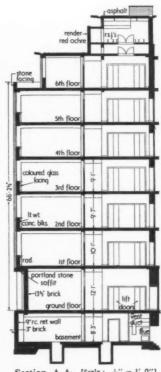
Sixth floor plan

Below right: floor heights match those of the parent building as it was a client's stipulation that the corridors of the two buildings should be linked without a change of level which would be awkward for wheeled trolleys, etc.

OFFICES

in CHISWELL STREET, LONDON, E.C.I designed by HANDISYDE and TAYLOR

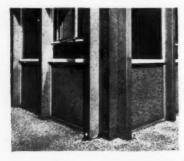




Section A-A [Scale: 24" = 1' 0"]

made w and

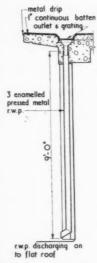
is only e light ns surluction y con-



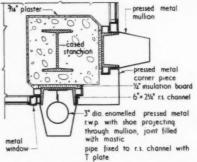




Top (viewpoint 7): south-west corner detail on sixth floor. Note how the pressed metal mullion conceals a rainwater pipe. Above centre (viewpoint 8): the south facade on the

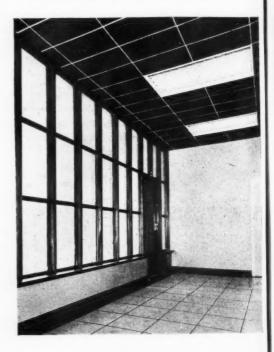


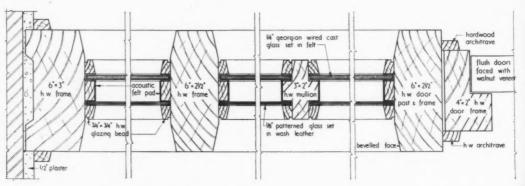
Detail of s.w. corner at 6th floor level section [Scale: ½" = 1'0"]

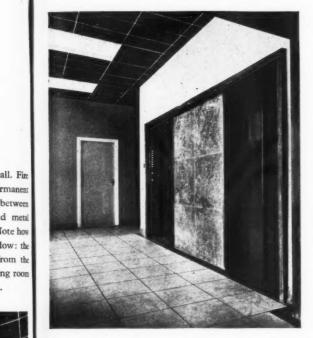


Detail plan of s.w. corner at 6th floor level [Scale: 1" = 1' 0"]

sixth floor. Below left: interior view of curtain wall. Fire regulations require a solid wall below windows. Permanent ventilation is by way of the cavity thus formed between inner and outer leaves of the wall. The pressed metal internal sill conceals circuit pipes to the radiators. Note how the mullion can accommodate a partition end. Below: the main vestibule on the ground floor is entered from the parent building. The glazed screen encloses a waiting room off the vestibule, on the right of which are the lifts.







all. Fire

between

d metal

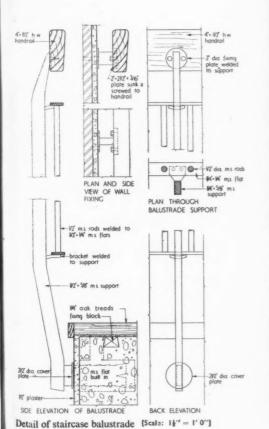
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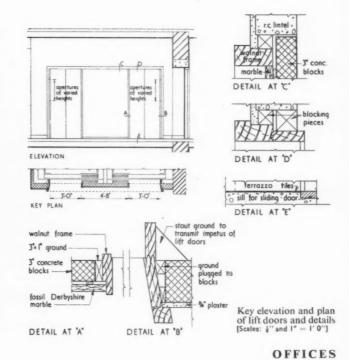
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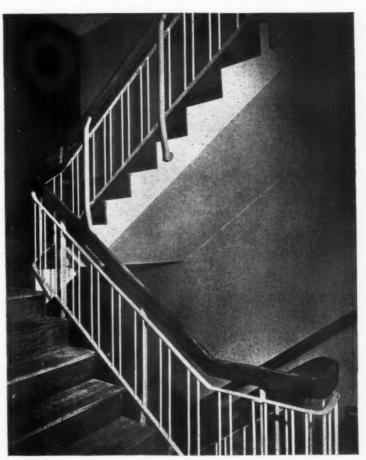
doors with

Above: the lift doors in the main vestibule. Below right: the balustrade, though light in appearance, is extremely sturdy due to the sensible railing and fixing of standards at intervals of one tread in three. Staircase walls are finished in extremely durable cold cement-glaze.





in CHISWELL STREET, LONDON, E.C.I designed by HANDISYDE and TAYLOR







Below: a typical large office. Note the use made of the generously wide sills. The floor finish is linoleum, other surfaces are plaster. Floor points are provided throughout the building for intercom telephones. An access panel set in floor for junction box of telephone conduit is shown below right.

Above left: cut-off doors between vertical circulation and corridors must fold back hard against the flanking walls in order to afford the minimum acceptable clear width of opening, and consequently recessed door handles are specially detailed. Above right: corridor wall showing typical demountable partitions finished in stove enamel, with varying colours from bay to bay in an attempt to reduce apparent corridor length.







Above and below left: an executive's office. The ceiling is insisted on adequate means of disposing of office waste and

acoustic fibreboard and the floor is carpeted. All fittings asked for paper to be kept separate from the remainder were supplied by the occupants. Below right: the clients Two chutes are shown here.





OFFICES

IN CHISWELL STREET LONDON E.C.I designed by HANDISYDE and TAYLOR

7241

analysis

OFFICES

in CHISWELL STREET LONDON, E.C.I



Site plan

CLIENT'S BRIEF: his stated requirements

A contemporary building to form an extension to existing premises, providing the maximum lettable floor area allowed by the limitations of the site. Within this general brief the client was willing to forgo a slight amount of floor space in order to accommodate the set-back of the ground floor which was felt necessary for architectural effect. No target cost was given and the architects were asked to effect reductions after their preliminary scheme and estimate had been submitted. Similarly no target was set for the completion date, this being mutually agreed between clients, architects and nominated contractor. Office space was to be designed for letting in units of one floor at a time. As each floor was let, some tenants asked the architects to provide suitable partitioning. Others went direct to their own suppliers.

SITE: topography, surroundings, access, planting

Area of site 5,366 ft. super. Bombed site in built-up area just outside boundary of City of London. Site cleared down to former basement level except for vaults at north end. Existing building on east side of site to which new building had to be joined. Extensive playing fields to north-east.

PLAN: general appreciation and relation of units

The new offices are virtually an extension to an existing block on the east side. Consequently, only one stair was needed, since others in the parent building provide alternative means of escape. Strategic placing of the new stair and the need to provide a link with the existing south corridor determine the general plan form. The stair is placed so as to come within the maximum permissible distance from the farthest part of the offices and together with a light well and lavatories forms a core.

Town planning requirements included the provision of garage accommodation, which, because of difficulties in access to the basement had to displace office space on the ground floor. In view of this, a limited area of office space was allowed as a replacement in excess of the plot ratio of the original building, but the perimeter walls had to be set back because a 50° angle was required from the ground floor of the future building on the west side of Bunhill Row. The basement, apart from an extension to the existing boilerhouse is entirely devoted to lettable storage space.

The depth of office was determined in effect by the remainder left over after the necessary space had been deducted for the stairs, lifts, etc. Daylight penetration was not a prime consideration, although, in fact, the ceiling heights permit satisfactory daylight levels throughout, Ceiling heights were determined by the clients stipulation that floors should run through from the parent building. Sill and head heights also run through-a town-planning requirement.

A module of half this width was used for the spacing of curtain wall mullions providing for office widths of 7 ft. 6 in., 11 ft. 3 in. and multi les of 3 ft. 9 in.

MAIN CONSTRUCTION general appreciation

A simple bay structure of rolled steel members with bays generally 11 ft. 3 in. (3 modules) wide, with a line of central stanchions. The latter run through the basement but perimeter stanchions stop just below street level and are then carried down by reinforced concrete columns attached to the retaining wall and thence on to cantilevered foundation. A heavily reinforced basement slab thickened under stanchions forms the foundation for the whole building as foundations were not permitted to extend under pavements.

Total weight of structural steel, 170 tons; two centre rows of columns would have been more economical but were rejected for planning considerations. A beamless floor slab would have cost 50 per cent. more than the hollow pot floor spanning 11 ft. 3 in. between beams.

cost per sq. ft.	S	d
preliminaries and insurance	4	3
contingencies	4	0

STRUCTURAL ELEMENTS

Work below ground floor level: foundation type	Location	Materia	de	Finish	Reasons and comments		
Cantilever foundations and site	Basement		te reinforced heavily	Asphalt	Bearing pressure of soil:		
		With Oa		wor	k below ground floor level	6	1
External walls and facings	Location	Materia	als	Finish	Reasons and comments		
Below ground floor	Basement	Concre	te/asphalt/brick-on-	Fair finish			
Brickwork	Ground floor	Brickw and ter	ork faced with slate razzo	Plaster internally			
Special curtain wall and stone surround	Upper floors		" curtain wall " and d stone	Coloured glass panels. Pressed metal mullions: bituminous aluminium paint	Permits internal cross partitions to finish on mullions with 3 ft. 9 in. flexibility		
Brickwork	East facade	Brickw	ork with lightweight e block inner leaf	Plaster	A request of H.A.C. and for economy reasons		
					external walls and facings	4	8
Frame or load bearing element	Location	Materials	Beam spans	Column grid	Reasons and comments		
Conventional rolled steel frame cased in concrete	Throughout	Rolled steel sections	11 ft. 3 in. 18 ft. 6 in. 21 ft. 7 in. with exceptions dictated by plan	3 rows of columns at 11 ft. 3 in. c/c along building and spaced at 18 ft. 6 in. and 21 ft. 7 in. trans-	Architects and nominated Contractor agreed that steel saved time, even when cased in concrete owing to avoid- ance of slow process of plac- ing reinforcement. Column		

ing reinforcement. Column ing reinforcement. Column spacing dictated by planning and by office dimensions; otherwise, two centre rows of columns would have been cheaper

4

internal doors 1

analysis

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pper floor construction	Location	Materials	Finish			nd comments		
loors spanning II ft. 3	in. Offices Corridors	Hollow pot	total thickness to suit finish	screeded 3 in. of screed varies ptrance terrazzo	dust to be over duct project be	laid by tenants. Under floor e included in screed. Mesh Deep beams of frame low slab. Flat ceiling eep beams would have cost		
	Corridors		tile	nualice terrazzo	50 per cei			
	Lavatories		Tesselated tile	. Grey				
						upper floor construction	.7	
taircases	Location		Materials	Finish		Reasons and comments		
	to ft. and i	e varies between I ft. 4 in. to 6 ft. ils in width	Reinforced concrete	Hardwood fac treads and rise hardwood stri landings	ers and	One staircase sufficed owing to link with other building		
						staircase	1	
oof construction	Location		Materials	Finish		Reasons and comments		
s floors	Locusion		Foam slag screed laid	Asphalt and w	white spar	Transcens and comments		
			flat on hollow pot slab	chippings		roof	1	
						1001		
Vindows	Location		Materials	Finish		Reasons and comments		
external	Throughou	ıt	Mild steel purpose-made from universal sections	de Zinc sprayed and painted	red oxide			
						windows	5	
External doors	Location		Materials	Finish		Reasons and comments		
On west side	Exit to Bu	nhill Row Garage	Metal casement doors. Sliding folding metal	As above				
			Shang folding metal			external doors	0	
lazina	Location	Ma	terials	Finish		Reasons and comments		
Glazing Opening lights 3 ft. ×	Location I ft. Throughou	ıt 26 (terials Dz. g.g.	Finish		Reasons and comments		
Opening lights 3 ft. × 4 ft.	r ft. Throughou	26 o 32 o	oz. g.g. oz. g.g.	Finish		Reasons and comments		
Opening lights a ft. ×	r ft. Throughou	26 o 32 o	oz. g.g.	Finish		Reasons and comments glazing	1	
Opening lights 3 ft. × 4 ft.	r ft. Throughou	26 o 32 o	oz. g.g. oz. g.g.	Finish			1	
Opening lights 3 ft. × 1t. × 4 ft. Fixed lights 6 ft. × 3 ft.	r ft. Throughou	26 o 32 o	oz. g.g. oz. g.g.	Finish Reasons and c			1	
Opening lights 3 ft. × lit. × 4 ft. Fixed lights 6 ft. × 3 ft. PARTITIONI Internal partitions	I ft. Throughou	at 26 32 6 3.10	oz. g.g. oz. g.g. 6 in. drawn sheet Finish on Stoved enamel	Reasons and c The figure gi 6th, 2nd and remaining flot tenants. It is be raised to 6	omments ven for cost 1st floors on 1st scarr 1st scarr 1st sat da 1. da		1	
Opening lights 3 ft. × tt. × 4 ft. Fixed lights 6 ft. × 3 ft. PARTITIONI Internal partitions Demountable	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one	at 26 o 32 o 3/10 Materials Aluminium extrusio	oz. g.g. oz. g.g. 6 in. drawn sheet Finish on Stoved enamel	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is	omments ven for cost 1st floors on 1st scarr 1st scarr 1st intented the 1st to co 1st	glazing of partitions includes the ty, as the partitioning on the tied out directly by the at the figure would need to	1	
pening lights 3 ft. × ft. × 4 ft. ixed lights 6 ft. × 3 f PARTITIONI Mernal partitions Demountable	r ft. Throughou tt. N G Location Between offices Round lavatories and in all corridors	Materials Aluminium extrusic and hardboard band	Plastered both	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g	omments ven for cost 1st floors on 1st scarr 1st scarr 1st intented the 1st to co 1st	glazing of partitions includes the ty, as the partitioning on the tied out directly by the at the figure would need to	3	
Opening lights 3 ft. × lft. × 4 ft. Fixed lights 6 ft. × 3 ft. PARTITIONI Internal partitions Demountable	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one	Materials Aluminium extrusic and hardboard band	Finish Stoved enamel Plastered both sides	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g	omments ven for cost 1st floors on 1st scarr 1st scarr 1st intented the 1st to co 1st	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions		
Opening lights 3 ft. × lit. × 4 ft. Fixed lights 6 ft. × 3 ft. PARTITIONI Internal partitions Demountable Fixed	I ft. Throughou	Materials Aluminium extrusic and hardboard band and hardboard band once the blocks Materials Walnut with glazing	Plastered both sides	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g London Build	omments ven for cost 1st floors on ors was carre- sestimated th s. 4jd. to co- pro rata. ding Act. Reasons and	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions		
Opening lights 3 ft. × ft. × 4 ft. ft. × 4 ft. Fixed lights 6 ft. × 3 ft PARTITIONI Mernal partitions Demountable Fixed	I ft. Throughou	Materials Aluminium extrusic and hardboard band 3 in. lightweight concrete blocks	Finish Stoved enamel Plastered both sides Forugh-cast on	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g London Build	omments ven for cost 1st floors on ors was carre- sestimated th s. 4jd. to co- pro rata. ding Act. Reasons and	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions		
Opening lights 3 ft. × ft. × 4 ft. ft. × 4 ft. Fixed lights 6 ft. × 3 ft PARTITIONI Mernal partitions Demountable Fixed	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one tenant on each floor Location Ground Floor	Materials Aluminium extrusic and hardboard band of the concrete blocks Materials Walnut with glazing office side	Finish Stoved enamel Plastered both sides For rough-cast on	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g London Build	omments ven for cost 1st floors on ors was carre- sestimated th s. 4jd. to co- pro rata. ding Act. Reasons and	glazing of partitions includes the ty, as the partitioning on the ted out directly by the att the figure would need to over partitioning throughout internal partitions it comments light for entrance hall	3	
Opening lights 3 ft. × ft. × 4 ft. ft. × 4 ft. Fixed lights 6 ft. × 3 ft PARTITIONI Mernal partitions Demountable Fixed	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one tenant on each floor Location Ground Floor Waiting Room	Materials Aluminium extrusic and hardboard band of the concrete blocks Materials Walnut with glazing office side Festival glass other	Finish Stoved enamel Plastered both sides For rough-cast on	Reasons and configure gives the figure gives the first t	omments ven for cost 1st floors on ors was carre- sestimated th s. 4jd. to co- pro rata. ding Act. Reasons and	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions		
Opening lights 3 ft. × ft. × 4 ft. The state of the stat	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one tenant on each floor Location Ground Floor Waiting Room Corridor	Materials Aluminium extrusic and hardboard band and hardboard band of the state of	Finish Stoved enamel Plastered both sides Frough-cast on Side	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g London Build inish	omments ven for cost 1st floors on ors was carrestimated the s. 4jd. to cc ror rata. ding Act. Reasons and To borrow	glazing of partitions includes the ty, as the partitioning on the ted out directly by the att the figure would need to over partitioning throughout internal partitions it comments light for entrance hall	3	
pening lights 3 ft. × ft. × 4 ft. ixed lights 6 ft. × 3 ft. PARTITIONI sternal partitions bemountable fixed	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one tenant on each floor Location Ground Floor Waiting Room Corridor	Materials Aluminium extrusic and hardboard band and hardboard band of the state of	Finish Stoved enamel Plastered both sides For rough-cast on	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building g London Build	omments ven for cost 1st floors on ors was carrestimated the s. 4jd. to cc ror rata. ding Act. Reasons and To borrow	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions comments light for entrance hall	3	
Opening lights 3 ft. × ft. × 4 ft. ft. × 4 ft. Fixed lights 6 ft. × 3 ft PARTITIONI Mernal partitions Demountable Screens W.c. doors and partition	I ft. Throughou It. N G Location Between offices Round lavatories and in all corridors where more than one tenant on each floor Waiting Room Corridor ms Location Throughout	Materials Aluminium extrusic and hardboard band band band band band band band ban	Finish Stoved enamel Plastered both sides Frough-cast on Side	Reasons and c The figure gi 6th, 2nd and remaining flo tenants. It is be raised to 6 the building p London Build inish sinish Stove enamel	omments ven for cost 1st floors on ors was carrestimated the s. 4jd. to cc ror rata. ding Act. Reasons and To borrow	glazing of partitions includes the ty, as the partitioning on the ted out directly by the at the figure would need to over partitioning throughout internal partitions d comments light for entrance hall screens Reasons and comments w.c. doors and partitions	3	
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Plumbing: sanitary fittings

Location

Lavatories

L	analysis					
fronmongery to internal doc		Materials		Reasons and comments	S	
	Generally	Lever handles	Polished bronze			
	Swing doors	Purpose made recessed	Polished bronze	To allow doors to open right back against walls		
	Escape doors	Espagnolette				
FINISHINGS				ironmongery to internal doors	1	0
Floor finishes, location		Materials	Finish	Cost per sq. yd. of each type s. d.		
Basement Corridors Office areas mainly left scr	reeded	Mastic Asphalt Muhuhu block Linoleum on screed	Polished	10 6 46 9 26 9		
Entrance hall Lavatories Utility spaces and cupboa	rds	Terrazzo Vitreous tiles Granolithic	Mottled grey and whit	48 6 61 0 10 9		
· ·				floor finishes	1	9
Wall finishes	Location	Materials	Finish	Reasons and comments		
Internally	On light-weight concrete	Plaster	Emulsion paint	seedond was comments		
	blocks and brick On stairs and escape	Cement glaze	Integral			
	corridors Demountable partitions	Centerit State	Integral			
	Lavatories	Glazed tiles	Semi-smooth			
				wall finishes	1	8
Calling Saidhea	Location	Materials	Finish	P		
Ceiling finishes	Generally	Plaster on soffit of	Two coats emulsion pain	Reasons and comments		
	In important offices	solid floors Fibre board v-jointed				
	In important onices	on wood bearers	Two coats emulsion pain	t v's picked out in white		
				ceiling finishes	0	11
Decorations	Location	Paint types	Munsell or other ref.	Colour scheme and comments		
Ceilings	Generally	Emulsion		White		
Acoustic tiles	Executive offices	Emulsion	7-5B 3/4	Dark blue		
Walls	Generally and entrance hall	Emulsion		Oyster		
Cement glaze	Corridors	Emulsion		Vellum and quaker grey		
Entrance hall	W. wall		7.5Y 8/10	Lemon yellow		
Staircase:	Back wall		7.5R 3/12	Dark red		
Windows and architraves	Sills		White. Dark grey	decorations	2	1
SERVICES				uecorations	2	•
Rain water disposal	Location	Materials	Finish	Reasons and comments		
	In ducts in every corner of the building	4 in. C.1 with copper at bends, except for 3 in. on roof		Duct also contains heat risers. Gutter at foot of curtain walling R.W.P. contained in curtain wall mullion on 6th floor		
				rainwater disposal	0	4
Plumbing internal	Location	Materials	Finish	Reasons and comments		
Waste disposal: Two- Pipe system	For lavatories	Cast iron				
Hot water storage	Location	Materials	Capacity	Reasons and comments		
Calorifiers with pumps	Boilerhouse	Galvanized iron	200 gallons			
Cold water storage	Location	Materials	Capacity	Reasons and comments		
	On roof	Steel				

Finish

Materials

Low-level WC suites. Slab urinals. Lavatory basin and incinerators

Reasons and comments

	analysis					
					S	(
Heating installation: heat exchanger type	Location	Criteria temperature	Air change rate	Reasons and comments		
Radiators	Generally	70°F.: Offices. 65 F.: Circulation. 60°F.: Lavatories and garage	4 per hour	Radiators in parent building		
Boiler type and capacity	Location	Heat load and fuel type	Stoking method	Reasons and comments		
3 boilers 1,000,000 B.Th. Units hour	Basement (input 180° F.)	220 seconds viscosity oil		Serves new and existing buildings		
Water heater type	Location	Fuel type	Stoking method	Reasons and comments		
Calorifiers	Basement	On main heating system		heating installation	6	
Drainage: type of system	Location	Materials	Finish	Reasons and comments		
Combined soil and rainwater	Through basement to Chiswell Street	Cast iron				
				drainage	0	
Gas installation Incinerators	Location Ladies' lavatories	Materials 2-in, main	Finish	Reasons and comments Large main for possible use,		
incinerators	Laures lavatories	z-m. mam		e.g., laboratory benches gas installation	0	
				gas instanation	U	
Electrical installation: source Downward fittings	and type of fitting Local		Illumination level quality Not measured 51 sq. ft.	Reasons and comments		
60 per cent. down/30 per ce	ent. up Gene	rally	13 sq. ft.			
Decorative	Speci	al offices and stairs				
Wiring and switching types V.I.R. in heavy gauge screw conduit	Location wed	Mater	rials	Reasons and comments		
Power supply type	Location	How o	distributed	Reasons and comments		
250 V. a.c. 3-phase for lifts pumps	and	Distri	ibution boards on every			
				electrical installation	3	1
		pacity and speed	Motor room position	Reasons and comments		
50		ifts, 10 persons. 200 ft./	On roof	Fully automatic client's brief	-	
				lifts	5	1
Paved areas Location		Mater		Reasons and comments		
Pavement lights	Chiswell Street Bunhill Row	grano	e no pavement lights lithic			
Cobbles	Round stanchion	S		paved areas	0	
				total net cost per sq. ft. of floor	77	1
THERMAL INSU	ULATION					
Туре	Location	U-Va	lue	Reasons and comments		
Walls	Generally	0.2		Permanent ventilation in curtain wall cavity		
Roof, lightweight vermiculi	te					
SPECIAL ACOU	STICAL TREAT	MENT		*		
Sound absorption material	Location		ption coefficient	Reasons and comments		
Fibreboard on hangers	Executive offices Ceilings	Not r	measured			
Sound insulation	Location	Insula	ation standard	Reasons and comments		
Internal walls	Between offices	33 d.				

40 d.b.

3

Internal walls

Office and corridor

d

0

9

8

11

1

4

analysis

REFUSE DISPOSAL

Method	Type of refuse	Waste recovery	Materials and installation
Chutes (2)	Paper other than office debris	Bins at base of chute	Patent chute

TIME SCHEDULE

Drawings	Contract signed	Work commenced	Work completed	Type of contract
Sketch plans started Feb., 1954 Contract drawings started June, 1954 Contract drawings completed Feb., 1955 Additional drawings for internal partitions etc., July-Oct., 1955—requirements not known earlier	August 6, 1954	September 6, 1954	Additional work makes it difficult to determine date on which contract was completed but main contract was substantially finished by December 31, 1955. Additional work incorporated in course of contract was completed in April, 1956	Bovis fixed-fee contract

RATIOS

Area of enclosing walls	2	Area of windows (incl. ext. doors)	I
Total floor area	3	Total floor area	3
Area of solid wall	I	Total roof area	1
Total floor area	3	Total floor area	7.5

COST ANALYSIS

Total ground floor area of superstructure Total floor area (excluding basement) Total floor area of basement Storey heights of basement Total depth of basement	Square feet 4,340 31,821 4,870 9 ft. 13 ft.	Tender date Tender cost of superstructure Installations and finishings Tender cost of foundations and basement Tender cost of ancillary buildings and external	August 6, 1954 £83,000 £46,800 £11,200	
		works Gross total cost Cost per ft, super of floor area including basement Cost per ft, super including basement	£2,000 £143,000 £3 17s. 11d.	

COST COMMENTS

This office block is the first of its kind to be published. Previous analyses for offices have been for two-storey blocks on less confined sites (offices at Poole, AJ March 10, 1955, and offices at Hendon, AJ July 28, 1955). Thus, more useful cost comments must await the publication of a second independent office block. The following points of interest should be borne in mind when considering the costs of the various elements:

Foundation: Costs were influenced by the limitation of the site, which restricted their proposed extension under adjoining pavement.

External Walls: Only a general picture of the distribution of costs is available due to the varied types of construction included in the element cost of 4s. 8d.

Frame: The account of the high flats symposium at the RIBA (AJ, March 10, 1955) indicated that concrete was likely to be more economical than steel except for very high buildings. Thus other considerations apart it would appear that this possible economy was more than offset by the speed of erection in using steel.

Roof: It should be noted that six storeys gives a low roof to total floor area ratio.

SITE ORGANISATION

SITE LABOUR AND EQUIPMENT: work on site was organised in the orthodox manner under the direction of a general foreman. Directly responsible to him were the trades foremen (brick-layer, carpenter and painter), an assistant general foreman (who controlled through gangers the general labourers and steel fixers) and the foremen of the sub-contractors.

Technical advice was provided by the clerk

of works and the consulting engineer who visited the site weekly. There was no resident engineer. A large volume of rubble and excavated material was removed from the old bombed out basement, which formed the site, using two belt conveyors which discharged direct into tipper lorries at street level. Sheet piling was installed on two sides of the site to hold up the earth banks supporting the pavements whilst new reinforced concrete retaining walls were being formed. Owing to the congested conditions hand barrows were used; the large-capacity Ant wheelbarrows were employed.

A crane was used to erect the steel to full height; builders materials were delivered to the upper floors by two high-speed platform hoists, one fitted with a concrete skip.

SUB-LETTING: the work of forming the hollow clay tile floors was sub-let to ensure that the fast contract speed would be realised.

JOB MANAGEMENT: the job was planned in the builder's head office in conjunction with the contract staff concerned. Order lists and time tables for materials, labour, plant and subcontractors were prepared, for which the services of the buying, estimating, plant and labour departments were co-opted. The programme was prepared after discussions with known sub-contractors.

The contract manager, based on head office, visited the job twice a week and together with the foremen used the pre-plan charts to prepare monthly, then weekly, programmes of work.

The architect held general site meetings once a fortnight and any policy changes arising from these were fed back immediately to the head office to enable them to make any necessary alterations to the master chart.

A direct financial, operator incentive scheme was used, bonus targets were based on previous work measurement results, modified where necessary by analytical estimating techniques.

CONTRACTORS

Clerk of works: M. Carding, General contractor: Bovis Ltd.

Sub-contractors (structure): Asphalt tanking: Limmer & Trinidad Lake Asphalte Co. Ltd. Asphalt roofs: H. V. Smith & Co. Ltd. Leca blocks: Lightweight Precast Concrete Co. Ltd. Reinforced concrete: Bovis Ltd.; Phillips Floors Ltd. Stone and stonework: I. Bysouth Ltd. Slate panels: Setchell & Sons. Partitions: Internal Constructions Ltd. Lavatory partitions: Compactum Ltd. Glass fixer: James Clark & Eaton Ltd. Glass supplier: Pilkington Bros. Ltd. Wood block flooring: Hollis Bros. Ltd. Artificial stones Girlings' Ferro-concrete Co. Ltd. Structural steel erectors: Browns Erectors Ltd. Structural steel supplier: United Steel Structural Ltd. Waterproofing material: R. I. W. Products Ltd. Sub-contractors (equipment): Central heating: Regional Heating Co. Gas fixtures: William Sugs & Co. Ltd. Gas fitting: North Thames Gas Board. Electric wiring and bells: City Electrical Co. Ltd. Electric light fixtures: Courtney Pope (Elec.) Ltd.; Troughton & Young Ltd.; G.E.C.; Merchant Adventurers of London, Ltd.: Falk Stadelmann & Co. Ltd. Boilers: Ideal Boilers & Radiators Ltd. Stairtreads: R. Cattle Ltd. Metal staircases: Haskins Ltd. Plumbing: Subtrades Ltd.; F. Braby & Co. Ltd. Lightning conductors: J. W. Grav & Son Ltd. Door furniture: G. & S. Allgood. Pavement lights: Lenscrete Ltd. Fire defence equipment: Merryweather & Sons Ltd. Telephones: G.P.O. Metal windows: W. E. Coffey & Sons Ltd. ontract d-fee

scheme previous d where chniques.

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Co. Ltd.

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Co. Ltd.
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London,
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airtreads:
kins Ltd.
Co. Ltd.
Son Ltd.
Pavement

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DOORS: 25

ENTRANCE DOORS: LONDON AIRPORT

Frederick Gibberd, architect

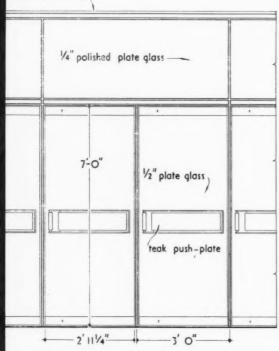


The 4-in. by ½-in. metal frame which surrounds the double range of swing doors and fixed fanlights is in anodised aluminium with teak fillets. There are fixed plateglass panels at the ends of each range with formal acidedged motifs at the same level as the teak push-plates on the doors.

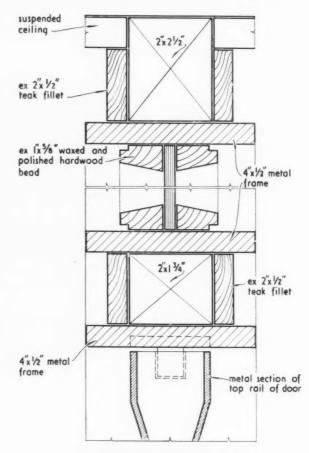
ENTRANCE DOORS: LONDON AIRPORT

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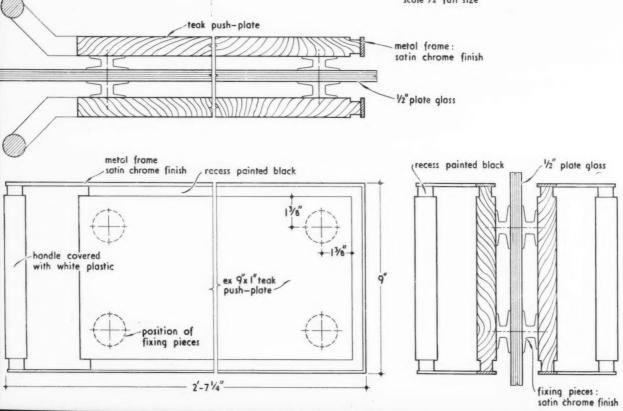




PART ELEVATION OF ENTRANCE DOORS. scale 3/8"-1-0"



VERTICAL SECTION THRO' FANLIGHT. scale 1/2 full size



VENTILATION DUCT: LONDON AIRPORT

Frederick Gibberd, architect

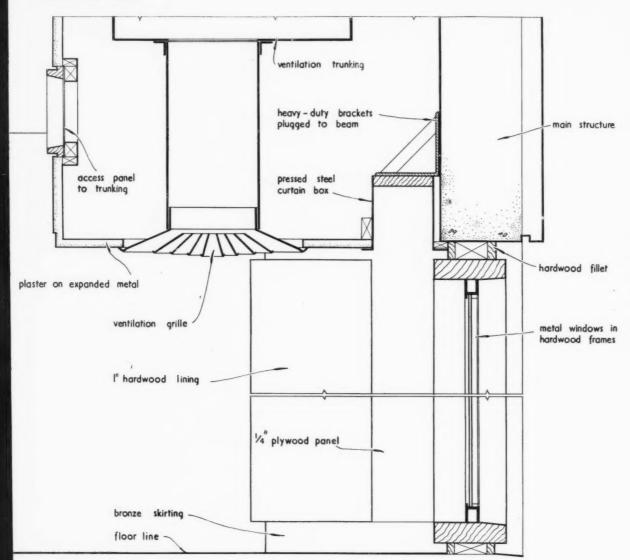


The metal trunking of the rentilation duct is masked by a casing of plaster on expanded metal, pierced by the grilles and access panels. The vertical pipe ducts lead into the void around the ventilation trunking. working detail

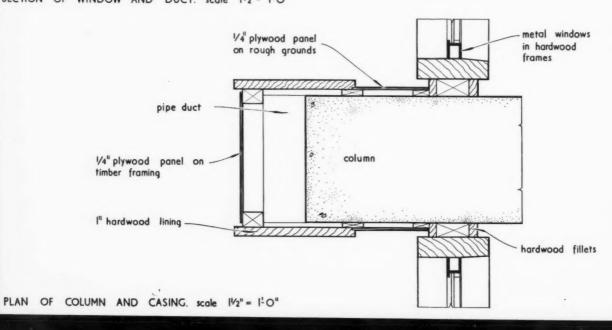
VENTILATION: 3

VENTILATION DUCT: LONDON AIRPORT

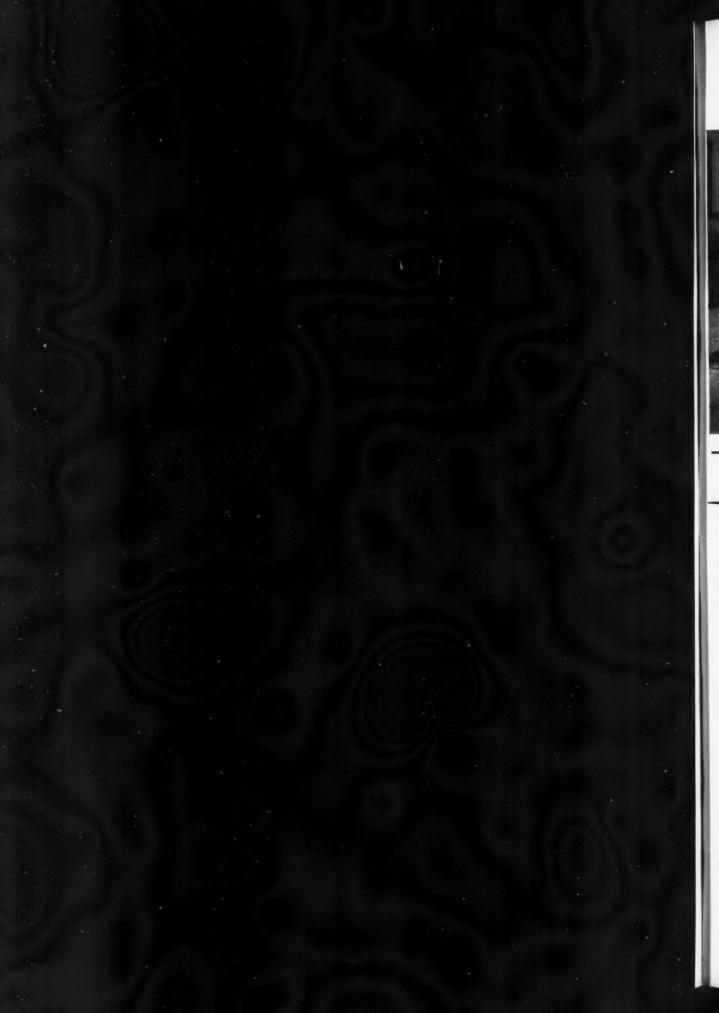
Frederick Gibberd, architect



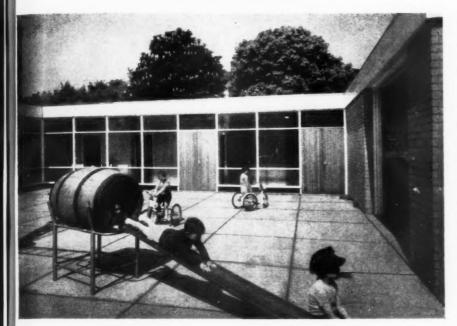
SECTION OF WINDOW AND DUCT. scale 11/2" = 110"







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BOOK REVIEW

Chinese Architecture

Like The Art and Architecture of Japan, the volume on China in the Pelican History of Art* is a two-man act: Laurence Sick-man writing on art and Alexander Soper (who also wrote on the architecture of Japan) writing on architecture.

Though it is generally agreed that the sources of most Japanese art forms are to be found in China, it is difficult and in most be found in China, it is difficult and in most cases impossible to tell whereabouts in China they are to be found or when. For Chinese art does not "develop" in the manner of western art: it is of its nature static: it is regenerated from dynasty to dynasty, but with differences which are not sufficiently striking to give the imagination anything to An illustration of what both historian and reader are up against is provided by the case of the Ming Tang. A Ming Tang is a type of ceremonial hall which was known to the Chou Emperors (BC was known to the Chou Emperors (bc. 1927-256) and which was regarded by them as an essential attribute of kineshin. Already by the Han dynasty (206 BC-AD 221) the specification for a Ming Tang was lost, though a considerable and conflicting literation. ture has sprung up on the subject; and for close on two millenia architects and rulers were worried about it. In Chinese art history it is the principle of conservation which matters, and the more that is dis-covered of art forms, the further do their origins recede behind the veil of pre-history. It seems generally agreed among art his-torians that all branches of Chinese art reached their greatest refinement in the Sung dynasty (AD 960-1279). In architec-

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od Street. on-Tyne, I * The Art and Architecture of China by Laurence Sickman and Alexander Soper. Penguin Books. 45s.

ture, for instance, the roofs which had hitherto been built in one plane received their characteristic curved profile at the eaves ("Belcast" as we would call it in the west). Unfortunately the surviving monu-ments of this period are exceedingly rare and we can only study them through contemporary work in Japan (where they were copied), or through paintings, or in buildings of much later date. This is a greater inconof much later date. venience to scholars than to ordinary westerners interested in Chinese architecture since for the latter the surviving imperial monuments in Pekin are a sufficiently vivid and complete record, even though they only date from the last dynasty of all, the Ch'ing (1644-1912). For this reason it is a pity that Mr. Soper gives a sketchy account of these latter works, treating them as though they are merely the fruit of a "revival.' this, more than in the Japanese volume, the reader is made to feel the shortcomings of art history in bringing home the human significance of the subject. It is packed with information of an erudite kind, but it surprising how little emerges of the Chinese attitude to life and art—or even to building technique. There are tantalising building technique. There are tantalising references to technical handbooks, as for references to technical nandooks, as for instance that the Sung state architect Li Chiai who had worked out (c. 1100 AD) "a rationalised method of calculating labour by unit or work"; but these references are insufficient to enable us to tell the degree of accomplishment to which it witnesses. Perhaps full enlightenment on a subject about which so little is known was not to be given within the terms of reference of the Pelican History of Art. In any case the reader will feel that here he has an utterly trustworthy framework which he can use to fill in his knowledge of the art and architecture of this sub-continent, now. alas, more inaccessible than ever.

Announcements

PROFESSIONAL

Yuen and Todd (A/A.R.I.B.A.) have moved to 184, Pudu Road, Kuala Lumpur, Malaya.

TRADE

Messrs. Davidson Brothers & Company (Builders & Civil Engineers), 32, Barcroft Road, Bolton, Lancs, would be glad to receive Trade Catalogues.

At the third Annual General Meeting of FIDOR (Fibre Building Board Development Organisation Ltd.) held at Amsterdam on May 31, Mr. E. R. T. Foad was elected chairman of the Governing Council, and Mr. E. P. Lawrence, vice-chairman.

Mr. John Llewellyn has been appointed by the Turriff Construction Corporation Ltd. as Group Development Executive to assist in developing the activities of the Corporation and its Subsidiary Companies, Mr. Llewellyn will be based in London and is at present operating from the Corporation's Croydon



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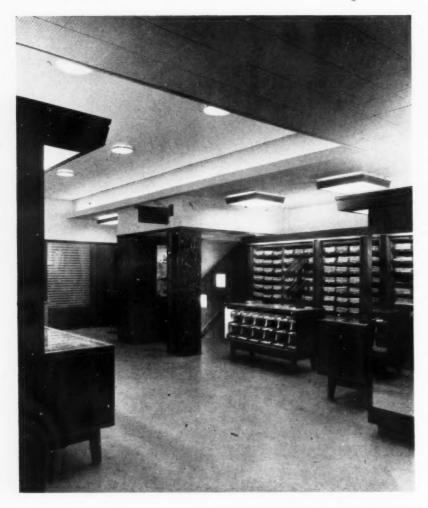
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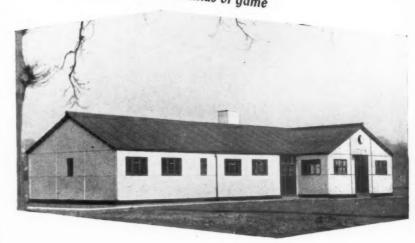
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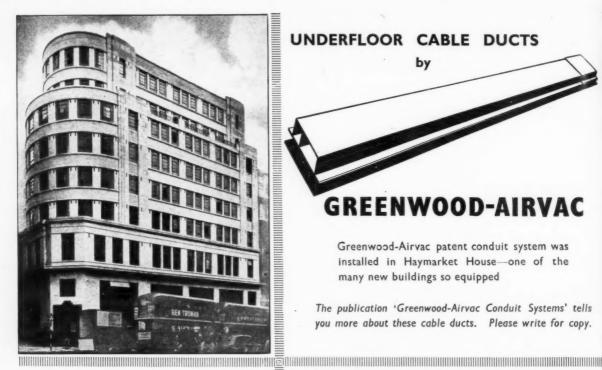
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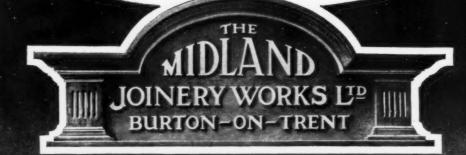
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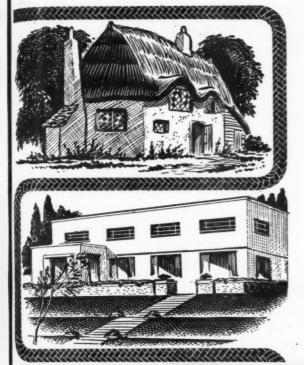
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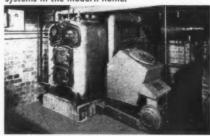


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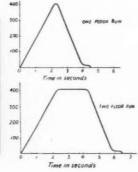


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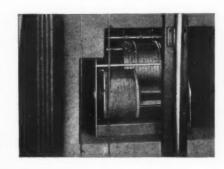
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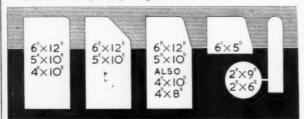
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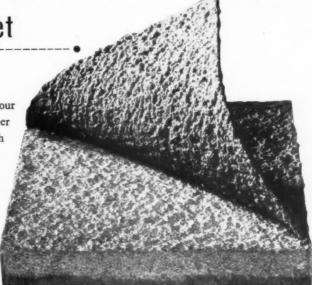


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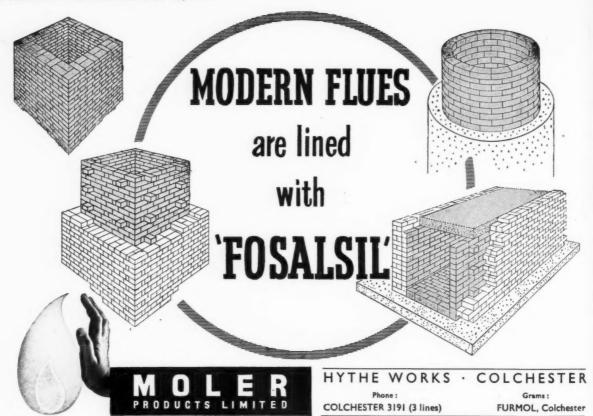
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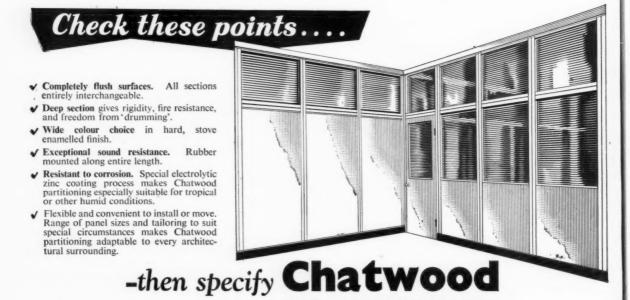
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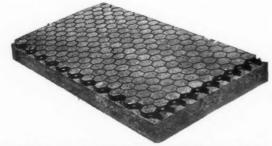
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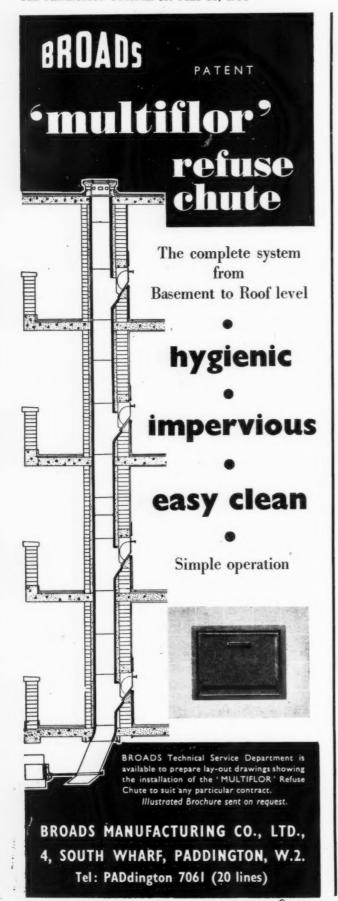
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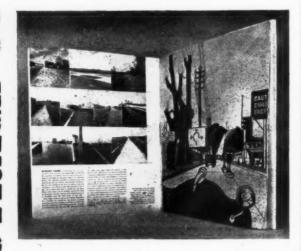


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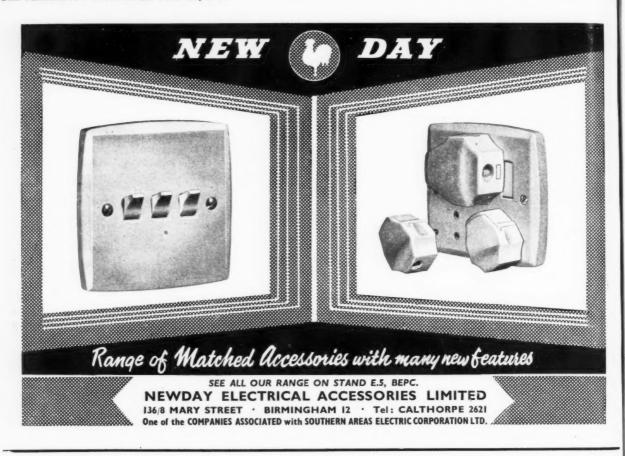
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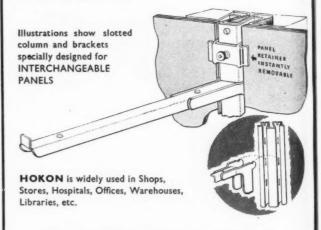




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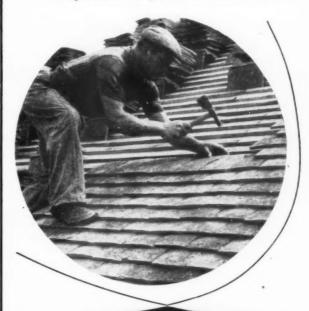
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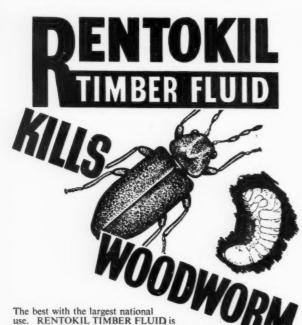
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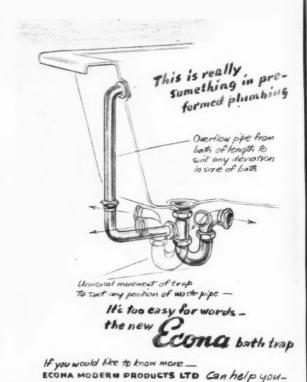
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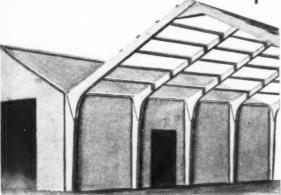
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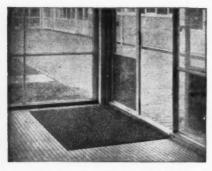
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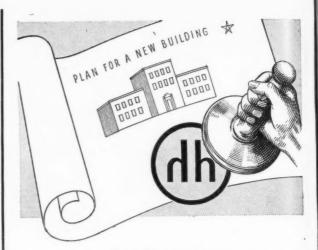
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(a) CHIEF TECHNICAL ADMINISTRATIVE ASSISTANT for the County Headquarters Office at Ruthin. Salary A.P.T. Grade VI, £880-£1,080 per annum. Applicants must have had considerable experience in the control of development and general planning administration and be Corporate Members of the Town Planning Institute. An additional qualification in either engineering, surveying or architecture will be an advantage.

(b) DEVELOPMENT SURVEYOR for the County Headquarters Office at Ruthin. Salary A.P.T. Grade IV, £710-£885 per annum. This appointment is for the enforcement of planning control and applicants must be fully competent to undertake this class of work.

(c) AREA PLANNING ASSISTANT for the East Area Planning Office at Wrexham. Salary A.P.T. Grade II, £756-£6575 per annum. Applicants must be competent to undertake the preparation of planning proposals. to assist in the control of development and should have passed the Intermediate Examination of the Town Planning Institute or hold an equivalent qualification.

The foregoing appointments are subject to the

the Intermediate Examination of the Town Planning Institute or hold an equivalent qualification.

The foregoing appointments are subject to the terms and conditions of service applying to the administrative, technical and clerical officers of the County Council and will be terminable at the end of any month by one month's notice in writing on either side. The successful applicants will be required to pass a medical examination and will be subject to the Local Government Superannuation Act, 1937. In respect of each appointment the successful applicant must provide and maintain a motor car, for which a travelling allowance will be paid in accordance with the Council's scale.

Applications stating appointment applied for, age, whether married or single, qualifications, present position and salary, previous positions and full details of experience obtained, together with the names and addresses of two persons to whom reference may be made must be sent to the undersigned by not later than the 30th day of June, 1956.

W. E. BUFTON, Clerk of the County Connecil.

Clerk of the County Conncil.

County Offices, Ruthin. Denbighshire 4th June, 1956.

4th June. 1956.

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Applications with the names of two referees are to be sent to the City Engineer and Surveyor, 22, Bridge Street, Worcester, by 30th June. 1956.
BERTRAM WEBSTER.
Town Clerk.

Guildhall, Worcester.

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Town Hall, Sheffield, 1.

NEWCASTLE REGIONAL HOSPITAL BOARD APPOINTMENT OF DEPUTY REGIONAL ARCHITECT
Applications are invited for the appointment of Deputy Regional Architect on the permanent establishment of the Board's Headquarters Staff at a salary of £1,95 × £50(4) × £30(1) — £1,425 per annum, subject to recently negotiated salaries increase.

per annum, subject to recently negotiated salaries increase.

Applicants must be Registered Architects and Associate Members of the Royal Institute of British Architects. Good administrative and architectural experience is an essential qualification as are also ability to supervise technical staff efficiently and possession of an intimate knowledge of the design and construction of all types of hospital buildings.

The successful applicant will be expected to deputise whenever necessary in respect of the whole range of the Regional Architect's duties and responsibilities.

The conditions of service will be as laid down by the Whitley Council, and the appointment will be subject to superannuation and be terminable by one month's notice from either side. The successful applicant, if not already employed in the National Health Service, will be required to pass a medical examination before the appointment is confirmed.

Applicants should furnish full details as to age, training, qualifications, past and present appointments, present salary and professional experience, together with the names and addresses of three referees, and should reach the Secretary to the Board not later than Saturday the 30th June, 1956.

Walker Gate Hospital,

Board not later than Saturday the 30th June, 1986.
Walker Gate Hospital,
Benfield Road,
Newcastle-upon-Tyne, 6.

COUNTY BOROUGH OF WEST HARTLEPOOL
APPOINTMENT OF CHIEF QUANTITY
SURVEYOR
GRADE A.P.T. V
Applications are invited for the appointment of Chief Quantity Surveyor in the Borough Architect's Department at a salary in accordance with Grade A.P.T. V (£795-£970). The commencing salary will be fixed according to the qualifications and experience of the successful applicant.

applicant.

Applications stating age, training, qualifications and details of experience, together with not more than three copies of recent testimonials, should be submitted to the Borough Architect. Municipal Buildings, West Hartlepool, not later than noon on Friday, the 13th July, 1956.

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

required. ERIC J. WAGGOTT, Town Clerk.

Municipal Buildings, West Hartlepool. 13th June, 1956.

OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited for ARCHITECTURAL ASSISTANTS in A.P.T., Grades IV, III, II and I. N.J.C. Conditions of Service. Applications, giving age, education, qualifications and experience, a copy of a recent testimonial, and the names and addresses of two referees, to be sent in envelope endorsed "Staff," to County Architect, Park End Street Offices, Oxford, by the 4th July, 1956.

tect, Park End 4th July, 1956. GERALD GALE BURKITT, Clerk of the Council 1431 County Hall, Oxford.

CITY OF WAKEFIELD
CITY ENGINEER'S DEPARTMENT
APPOINTMENT OF PRINCIPAL QUANTITY
SURVEYOR
Applications are invited for the above superannuable post on Grade A.P.T. V (£795×£35—
£970)

annuable post on Grade A.F.T. v Eugenome 2970). Candidates must be Members by examination of the R.I.C.S. or the I.Q.S., and have had a wide experience in large scale Local Authority Housing, Schools, and other Municipal projects. HOUSING ACCOMMODATION WILL BE PROVIDED IF NECESSARY Applications, stating age, qualifications and experience, together with the names of two referees, should be received by the City Engineer. Town Hall, Wakefield, not later than 9th July. 1956.

METROPOLITAN BOROUGH OF FULHAM BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT

(a) TWO ASSISTANT ARCHITECTS. A.P.T. III or IV (£670-£795 or £740-£915 p.a. including £30 p.a. London weighting).

(b) ARCHITECTURAL ASSISTANT, A.P.T. I or II (£530-£610 or £595-£675 p.a., plus London weighting of £20 or £30 p.a., according to the core of £30 p.a., according the core of £30 p.a., according the core of £30 p.a., according to the core of £30 p.a., according the £30 p.a., according the core of £30 p.a., according the core of

indon weighting of £20 or £30 p.a., according to age).

(c) SENIOR ASSISTANT QUANTITY SURVEYOR.

(d) APT. V. (£825-£1,000 p.a., including London weighting).

(e) John Committee the control of multi-storey develings.

(g) R.I.B.A. or equivalent, and with experience in the design and construction of multi-storey develings.

(h) R.I.B.A. Intermediate standard, and at least two years' drawing office experience; (c) A.R.I.C.S. (Quantities) or equivalent, and experience in the preparation of bills of quantities, handling large contracts for multi-storey dwellings. Application forms from Town Clerk, Town Hall, S.W.6. Closing date: 2nd July.

LEYTON COMMITTEE FOR EDUCATION JUNIOR ARCHITECTURAL ASSISTANT Applications are invited for the permanent appointment of a JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. GRADE 1, £550—£640 per annum including London Weighting (£30) which is reduced according to scale where age is less than 26.

Is reduced according to scale where and so than 26.

The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hail, Leyton, London, E.10.

Afternate Saturday mornings free of duty and canteen facilities available.

Details and form of application from the Borough Education Officer, Kirkdale Road, Leytonstone, E.11, to whom they should be returned by Thursday, 5th July, 1956.

D. J. OSBORNE, Town Clerk.

Town Hall, Leyton, E.10.

COUNTY COUNCIL OF THE COUNTY OF LANARK
HOUSING ARCHITECT AND ENGINEER'S
DEPARTMENT
Applications are invited for the following appointments to the staff of the County Housing Architect and Engineer at Beckford Street, Hamilton

ARCHITECT

Hamilton:—
ARCHITECTS—
(a) Senior Assistant Architects—Salary £1,100, £1,150. Applicants must be A.R.I.B.A. have extensive experience in design and construction of housing developments and able to assume a position of responsibility.
(b) Architectural Assistants—Salary scale A.P.T. I-VIII (£550,£930). Applicants should have good experience in design and construction of Housing Developments—Commencing salary and placing will depend on experience and/or qualifications.

CIVIL ENGINEERS—
(a) Senior Assistant Engineers—Salary £1,100,£1,150. Applicants must be A.M.I.C.E. or A.M.I.Mun.E., have extensive experience in design and construction of roadworks, etc., for housing developments and able to assume a position of responsibility.

(b) Engineering Assistants—Salary scale A.P.T. I-VIII (£550,£930). Applicants should have good experience of road works, surveying and levelling and preparation of plans and quantities. Commencing salary and placing will depend on experience and/or qualifications.

Medical examination. Superannuation. No Applications, stating age particulars of experi-

Medical examination. Superannuasian, canvassing.
Applications, stating age particulars of experience and qualifications, and accompanied by the names and addresses of three referees to whom reference may be made, should be lodged with S. McColl, F.R.I.B.A., F.R.I.A.S., County Housing Architect and Engineer, 23, Beckford Street, Hamilton, not later than 7th July, 1956.

IAN V. PATERSON, County Clerk.

Lanarkshire House, 191, Ingram Street, Glasgow, C.1.

Glasgow, C.I.

BOROUGH OF SWINDON

SENIOR ASSISTANT PLANNING OFFICER
Applications are invited for the appointment, in the Department of the Borough Surveyor and Planning Officer, of a SENIOR ASSISTANT PLANNING OFFICER, A.P.T. VI or VII (£880—£1,080 or £975—£1,200 per annum), according to experience and qualifications.

Applicants must be well qualified, have had considerable experience, and be capable of taking control of a section of the Planning Department dealing with the re-development of the Central Area.

Housing accommodation will be provided if

required.
Applications on forms obtainable from
Town Clerk, Civic Offices, Swindon, must
returned not later than the 4th July, 1956.

returned not later than the 4th July, 1956. 1389

UGANDA ELECTRICITY BOARD
ARCHITECTIRAL AND GENERAL
BUILDING DRAUGHTSMAN
Applications are invited for the above appointment on the Board's permanent staff.
Applicants should be able to prepare sketch plans, finished drawings and details for housing, small offices, sub-station buildings, stores, workshops, etc., and have experience in site surveying, use of level, setting out works and site surveying, use of level, setting out works and site supervision.

Preference will be given to single applicants under 30 years of age. The successful applicant will normally work at the Head Office in Kampala, but may be required to work at any of the Board's offices in the Protectorate.
Salary range 2990—€1,260 per annum. Free passages, partly furnished quarters, medical and dental treatment. Six months' vacation leave on full pay after 3 years' service. Local leave during tour.

dental treatment. Six months' vacation leave on full pay after 3 years' service. Local leave during tour.

Uganda has a pleasant climate; income tax is moderate and the salaries are reasonable in relation to the cost of living.

Application forms and further information may be obtained from the Loridon Representative. Uganda Electricity Board, 27, Regent Street, London, S.W.1.

W. D. D. FENTON. W. D. D. FENTON, Chairman.

GOVERNMENT OF QATAR—PERSIAN GULF STATE ENGINEER'S OFFICE Applications are invited for the following posts under the direction of the State Engineer, Government of Qatar, Doha:— DESIGN ENGINEER:

Government of Qatar, Doha:—
DESIGN ENGINEER:
Applicants for the post of Design Engineer should be qualified Civil Engineers (Associate Members of the Institution of Civil Engineers or other internationally recognized body) having particular experience of the layout and design of roads (bitumen macadam and reinforced concrete) and reinforced concrete structure, together with a sound working knowledge of the design of water supply, sewerage and sewage disposal schemes. Applicants should be rapid and competent draughtsmen.

The successful applicant will assist in the design of many of the Civil Engineering works associated with a rapidly expanding town.
ASSISTANT ARCHITECT:
Applicants for the post of Assistant Architect should be qualified Architects (Associates of Royal Institute of British Architects or other internationally recognized body) having good general experience of the design of private and public buildings. Applicants should be rapid and competent draughtsmen.

The successful applicant will assist the Government Architect in the design of the many

The successful applicant will assist the Government Architect in the design of the many architectural projects associated with a rapidly

The successful applicant will assist the Government Architect in the design of the many architectural projects associated with a rapidly expanding town.

Salary: For both above appointments will be according to Scale E2. Each starting at Rs. 1,75 an Arabic month with amnual increments of Rs. 75 a month up to Rs. 2,000, and then by annual increments of Rs. 100 per month to a maximum of Rs. 2,300 per month. (Rs. 1,775 an Arabic month is equivalent to £1,590 Sterling a Gregorian year.)

Gratuity: Payable on the basis of one month's pay for each completed year of service, on completion of contract only.

Probation: Probationary period of six months during which contract may be terminated at three months' notice by the Government, without stating its reason.

Contract: A five-year contract subject to successful completion of the probationary period. The employee may terminate the contract at three months' notice only after completing one year's service.

Accommodation: Free furnished bachelor accommodation, fuel, light and water. Married accommodation will be provided in accordance with the rules but in no case before successful completion of probationary period.

Leave: Will be earned at the rate of 5 days for each completed month of duty.

Free Travel: On first journey to Qatar, leave not exceeding one return 1st class Air passage in each year and termination for applicant, wife and children up to 18 years of age.

General: The climate is hot for about five months of the year but this is offset by air-conditioning in staff houses and offices. Good climate for the rest of the year.

No income tax, Duty car allowance. Free medical and dental treatment.

Applications endorsed "Design Engineer" or Assistant Architect" as the case may be, giving full personal particulars, including age, nationality, religion, education, marital status, qualifications, training, nast experience and employment, names and addresses of three referes and latest photograph should be sent in duplicate to:

The Adviser to the Government of Qat

to:
The Adviser to the Government of Qatar,
P.O. Box No. 36,
Doha, Qatar,
Persian Gulf,
with enclosures similarly

Doha, Qatar,
Persian Gulf.
A further copy with enclosures similarly endorsed should be sent to:
Messrs. C. Tennant, Sons & Co. Ltd.,
4, Copthall Avenue,
London, E.C.2.

COUNTY ROROUGH OF EAST HAM
THREE ARCHITECTURAL ASSISTANTS
(APT.V)

Applications are invited for the above appointments in the Housing Department at salaries in accordance with Grade APT. (2795-2535-2979)
plus London Weighting.
The Department has an extensive and interesting programme of mixed development of houses, flats and shops, and the redevelopment of slums, including multi-storey flats.
Further details and forms of application (returnable by 11th July, 1956) from the Town Clerk, Town Hall, East Ham, E.6.

METROPOLITAN BOROUGH OF FULHAM

Clerk, Town Hall, East Ham, E.o.

METROPOLITAN BOROUGH OF FULHAM ARCHITECTURAL TRAINEE, Borough Architect's Department. Excellent opportunity for boy, 16/17 years, to become articled pupil to Borough Architect. Commencing salary during training. £250—£275 D.a. Details from Town Clerk, Town Hall, S.W.S. Closing date: 2nd July.

UNIVERSITY OF CAMBRIDGE require the services of a CLERK OF WORKS in connection with a large new building programme. The appointment will be pensionable and will carry a good and rising salary commensurate with the qualifications and experience of the man appointed. Detailed applications from persons with wide experience as Clerks of Works on large building contracts supported by three recent testimonials to Director, Department of Estate Management, 74, Trumpington Street. Cambridge. Estate Ma Cambridge.

BUCKS COUNTY COUNCIL Applications are invited for the appointments in the County Architect's following

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The appointments are superannuable and subject

The appointments are superannuation and subject to medical examination.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications on forms giving turther particulars of the appointments are obtainable from F. B. Pooley, County Architect, County Offices, Aylesbury, and returnable by 30th June, 1956.

CITY OF CAMBRIDGE

Applications are invited for the following oppointment in the Architects' Section of the try Surveyor's Department.

ASSISTANT ARCHITECT. (Grade III. lary: £640-£765, entry point in accordance ith experience.)

ASSISTANT ARCHARACTORY
Salary: £640-£765, entry point in accordance
with experience.)
Applicants should be A.R.I.B.A. or at Final
stage, and must have had good office experience
of Housing and if possible School projects.
There is an interesting and varied programme
of work in the Section.

The appointment is superannuable, subject to
medical examination and terminable by one
month's notice on either side.
Housing accommodation will be considered.
Forms of application may be obtained from
the City Surveyor, The Guildhall, Cambridge,

orms of application may be obtained City Surveyor, The Guildhall, Cambr whom they should be returned not later 7th July, 1955.

ALAN H. I. SWIFT, Town Clerk.

BGROUGH OF GOSPORT
ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment from persons having passed Parts I and II of the R.I.B.A. Final Examination or its equivalent. Salary in accordance with the N.J.C. Special Grade for Architectural Assistants (£690×£50-£840 per annum). The appointment will be subject to the following:—

(1) The National Scheme of Conditions of Service.

Service.

(2) Medical examination.

(3) The Local Government Superannuation Acts.

(4) One month's notice on either side.
Applications, giving age, details of experience, and the names and addresses of two referes, should reach the undersigned not later than Saturday, 7th July, 1956.

EDWARD ADDENBROOKE,

Town Clerk.

Town Clerk

Town Hall, Gosport, Hants.

ISLE OF ELY COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the undermentioned appointments on the staff of the
County Architect:—
(a) TWO JUNIOR ARCHITECTURAL ASSISTANTS (A.P.T. I), £530—£610.
(b) QUANTITY SURVEYOR'S CLERK (Misc. II), £395—2460.

All posts are permanent, subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, and to a medical examination.

National Local Government Superannuation and the Local Government Superannuation.

Intending applicants are to apply for forms, stating for which post they wish to apply, to the County Architect, County Hall, March. Cambs., to whom they must be returned not later than 30th June, 1956.

R. F. G. THURLOW.

Clerk of the County Council.

COVENTRY CORPORATION requires:—

(a) SENIOR GROUP ARCHITECT (Schools Division), N.J.C. Grade "A" (£1,058-£1,228 15s.—revised scale pending).

(b) ARCHITECT (Research Group), A.P.T. V

(£795—£970).

(c) ARCHITECTS, Special Grade (£690—£840).
Additional local award £26 on salaries up to £795 in approved circumstances, Housing accommodation may be available. Application forms and conditions from City Architect addition officer, Bull Yard, Coventry, returnable within 10 days of publication.

BOROUGH OF TOTTENHAM
Applications are invited for the following established posts:—

Applications are invited for the following established posts:

SENIOR ARCHITECT, A.P.T., Grade V (£75 p.a. to £970 p.a.). Applicants must hold a Final professional qualification.

ARCHITECTURAL ASSISTANT. A.P.T., Grade II or I (£595 p.a. to £675 p.a. or £530 p.a. to £610 p.a.). Applicants must have passel R.I.B.A. Intermediate Examination or equivalent. Grading according to experience. Commencing salaries within grades, according to experience and ability.

London weighting allowance of £20 p.a. at 21 to 25 years or £30 p.a. at age 26 years and over payable in addition.

Application form and Conditions of Appointment from Borough Engineer (AJ). Town Hall. Tottenham. N.15. Applications must be delivered not later than 2nd July, 1956.

BOROUGH OF ACTON ENGINEER AND SURVEYOR'S DEPARTMENT

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porough Engineer and Surveyor's Department of an Architectural Assistant, Grade IIII (£595-£765), plus London allowance of £10, £20 or £30, according to age. The commencing salary will be fixed according to qualifications and experience. Terms of appointment and forms of application may be obtained from the Borough Engineer, from Hall, Acton, W.3, to whom applications must be returned by 2nd July, 1955. [403]

FEDERAL GOVERNMENT OF NIGERIA ARCHITECTS-PUBLIC WORKS

DEPARTMENT
To prepare sketch plans, working drawings and detailed specifications for various types of buildings, and carry out general work of an architectural Office. Appointments on contract. Salary range £1,170 to £1,824 p.a. Gratuity £150 p.a.
Free passages for officer and wife, and refund of up to cost of two adult passages for children mained outside the territory. Quarters, if available, at low rental. Generous home leave on full salary. Candidates should be A.R.I.B.A., with wide

iained outside the territory. Quarters, if available, at low rental. Generous home leave on full salary.

Candidates should be A.R.I.B.A., with wide general experience. Knowledge of Hospital planning would be an advantage.

Write Director of Recruitment, Colonial Office. London. S.W.I., giving age, qualifications and experience, quoting BCD 112/14/05. 1392

WORTLEY RURAL DISTRICT COUNCIL (Population 45,200)
Applications are invited for the following appointments in the Department of the Council's Engineer and Surveyor. Housing accommodation is available, and there is a programme of interesting work to be carried out.

(1) ASSISTANT ARCHITECT.
Salary in accordance with the Special Grade of the National Scales (£690×£30—£840).

(2) ASSISTANT QUANTITY SURVEYOR. Salary in accordance with the Special Grade of the National Scales (£690×£30—£840).

(3) ASSISTANT ARCHITECT.
Salary in accordance with Grades A.P.T. II and III of the National Scales (£690×£30—£840).

(3) ASSISTANT ARCHITECT.
Salary in accordance with Grades A.P.T. II and III of the National Scales.

Applications, giving full details of qualifications and experience, and names of two referees, should be delivered to me not later than 6th July, 1956.

July, 1956.

ADRIAN M. KELLY.
Clerk of the Council.
Council Offices, Grenoside, Sheffield.

BOROUGH OF CHELMSFORD
BOROUGH ENGINEER, SURVEYOR AND
ASSISTANT ENGINEERS, Grade A.P.T. IV

ASSISTANT ARCHITECT, Grade A.P.T. IV-V

12710—2570).
Applications are invited for the above appointments, Housing accommodation can be offered. Further particulars may be obtained from the Borough Engineer, Municipal Offices, Duke Street, Chelmsford. Closing date: 29th June, 1986.

B. A. FRANCIS, Town Clerk

METROPOLITAN BOROUGH OF
BERMONDSEY
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT
ARCHITECTURAL SECTION
Applications are invited for the appointment
of ASSISTANT ARCHITECT. Grade HILV,
1540-1570 (plus London Weighting), from suitably qualified persons with experience of contemporary styles of architecture.
Candidates must be Associates of the R.I.B.A.,
with subsequent office experience, preferably of
housing projects, and must be competent
designers capable of handling large building
schemes from sketch design stage to completion.
Commencing salary will be within the grade
stated according to ability and experience.
Application form and further details may be
obtained from the undersigned. Closing date
3th June, 1956.

S. E. FREEMAN,

S. E. FREEMAN, Town Clerk.

S. E. FREEMAN,
Town Clerk.

Spa Road,
London, S.E.16.

GOVERNMENT OF SARAWAK

SENIOR ASSISTANT ARCHITECT, PUBLIC
WORKS DEPARTMENT
To assist with the Development building programme, and to deputise for the Government Architect in his absence.
Appointment on contract for 36 months. Salary 4,98 p.a. Gratuity £37 10s. for each 3 months' resident service.
Furnished quarters at low rental. Free return passages for officer, his wife, and up to three children. 4 or 5 days' leave for each month of resident service.
Candidates, age 35-45, should be A.R.I.B.A. and have had considerable practical experience after qualifying. Should have a knowledge of the design of housing, hospitals, police, and other public buildings. Aptitude for reinforced of the design would be an advantage.
Write to the Director of Recruitment. Colonial Office, London, S.W.I., giving age, qualifications and experience, quoting BCD 112/24/012. 1393

ANTRIM COUNTY EDUCATION COMMITTEE
ASSISTANT ARCHITECT
Applications are invited by the above-named
Committee for the post of ASSISTANT ARCHITECT, on a salary scale of 6675—61,000, plus
pay supplement of £91—£160. Applicants should
be Associates of the Royal Institute of British
Architects.

be Associates of the Royal Institute of British Architects.

The point of entry on the salary scale will be determined according to the qualifications and experience of the person appointed.

The successful applicant will be required to contribute to the Local Government Superannuation Scheme.

Ex-Service preference. It is the Committee's policy to give special consideration to candidates who have served in Her Majesty's Forces.

Interviews arranged at centres to be agreed, and reasonable travelling expenses will be paid. Applications, on prescribed forms, which may be obtained from the undersigned on receipt of a stamped addressed envelope (foolscap size), must be forwarded to the Education Office, 475/477, Antrim Road, Belfast, N. Ireland, so as to be received not later than Friday, 13th July, 1956.

KENNETH A. MacCORMAC.

Director of Education.

1432

LINDSEY COUNTY COUNCIL

LINDSEY COUNTY COUNCIL

PLANNING DEPARTMENT

Applications are invited for the appointment of SENIOR ASSISTANT (ARCHITECTURAL), at Lincoln, Grade A.P.T. IV (2710—2885). Successful candidate should be suitably qualified and have some experience in dealing with redevelopment schemes, housing layouts, and architectural control. Superannuation and N.J.C. conditions of service as approved by the County Council. Post requires officer to provide own car for official journeys, for which allowance will be paid at essential user's rate for car not exceeding 10 h.p. or 1,199 c.c., subject to review according to Council's decision on application of new allowance scales. Canvassing will disqualify. Relationship to any member or senior officer of the Council to be disclosed in writing by applications, with particulars of age, training, experience, and names and addresses of two referees, to County Planning Officer. The Castle, Lincoln, not later than 30th June, 1956. 1381

COUNTY BOROUGH OF DERBY BOROUGH ARCHITECTS DEPARTMENT

Lincoln, not later than 30th June, 1956. 1381

COUNTY BOROUGH OF DERBY
BOROUGH ARCHITECT'S DEPARTMENT
ARCHITECTURAL STAFF:

(a) A.P.T. Grade V. (£795-£970 per annum)

(b) A.P.T. Grade III. (£640-£765 per annum)

(c) A.P.T. Grade III. (£595-£675 per annum)

(e) A.P.T. Grade II. (£595-£675 per annum)

(e) A.P.T. Grade II. (£595-£675 per annum)

(e) A.P.T. Grade II. (£509-£670 per annum)

(e) A.P.T. Grade II. (£795-£790 per annum)

(e) A.P.T. Grade II. (£800-£500 per annum)

UANTITY SURVEYING STAFF:

(a) A.P.T. Grade V. (£795-£970 per annum)

Commencing salary will be according to qualifications and experience.

Permanent superannuable appointments subject to one month's notice and to medical examination.

National Conditions of Service.
Applicants must state for which post they are applying.
Further particulars and application forms obtainable from and to be returned to The Borough Architect, The Council House, Corporation Street, Derby, not later than Monday, 9th July, 1956.

G. H. EMLYN JONES,

Town Clerk.

14th June, 1956.

14th June, 1956.

URBAN DISTRICT OF FELTHAM
ARCHITECTURAL ASSISTANT
Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT on the Council's unestablished staff at a salary within the National Scales, according to qualifications and experience, up to the maximum of Grade A.P.T.IV (1888 per annum), plus London weighting.

Forms of application, obtainable from the undersigned, must be returned accompanied by copies of two testimonials, not later than 7th July, 1956. Canvassing directly or indirectly will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,
Clerk of the Council.

Council Offices, Feltham, Middlesex.

LONDON COUNTY COUNCIL requires:—
(1) LANDSCAPE ARCHITECTURAL ASSISTANTS for preparation of schemes, working drawings, schedules and specifications, and supervision of contract work for laying out new parks and open spaces, playing fields and grounds to new schools.

and open spaces, playing neids and grounds to new schools.

(2) ARCHITECTURAL ASSISTANT for pre-paration of working drawings, specifications, and supervision of contract work for sports pavilions, cafés, service, and other ancillary buildings in parks and open spaces.
Salaries up to £817 Iss. a year, according to qualifications and experience.
Apply, giving brief particulars, to Chief Officer of the Parks Department. Old County Hall, Spring Gardens, S.W.1 (WHItehall 3121, ext. 319). (1106)

SLOUGH CORPORATION
ARCHITECTURAL VACANCY
A vacancy occurs for an ASSISTANT ARCHITECT on the Staff of the Borougn Engineer.
Slough being a rapidly developing town, the resulting expansion of public services affords the opportunity of experience on a variety of architectural design work.

The vacancy would prove an excellent opening to a young architect who has passed the Final examinations and is seeking a post in which he can quickly obtain wider experience and have the chance of taking responsibility for individual design work, and the supervision and administration of contract jobs of varying size and type.

administration of contract jobs of varying conditions and type.

The salary will be within the Special Grade of the National Scales, which commences at £690 and progresses to £840 per annum.

Those interested are invited to write, giving brief details of qualifications and experience, to the Borough Engineer. Town Hall, Slough, Bucks., with a view to meeting him at an early date for a discussion on the work of the Department and the prospects offered by the vacancy.

The NIGERIAN RAILWAY CORPORATION invite applications for following appointments.

(a) ASSISTANT ARCHITECT (Capital Works). Salary: £875 × £50-£1,675 p.a., plus overseas pay

(a) ASSISTANT ARCHITECT (Capital Works). Salary: £875×£50—£1,675 p.a., plus overseas pay £300 p.a.

Qualifications: Candidates should be Registered Architects, preference given to Associate Members of Royal Institute of British Architects. They should have had several years' experience, covering public buildings, factories, workshops, offices and housing, including layouts for same, also design and detailing of reinforced concrete structures, specifications, and supervision of junior staff.

(b) SENIOR DRAUGHTSMAN (STRUCTURAL) (Capital Works).

Salary: £1,150×£50—£1,450 p.a., plus overseas pay £300 p.a.

Candidates should have had wide experience of reinforced concrete structural design, together with experience of steel and deneral structural design, preparation of working drawings and taking off of quantities. Experience of Railway work desirable, though not essential.

(c) SENIOR DRAUGHTSMAN (ARCHITECTURAL) (Capital Works).

Salary: £1,150×£50—£1,450 p.a., plus overseas pay £300 p.a.

Qualifications: Duties of post cover preparation of design and working drawings for railway stations, offices, quarters, two and three storey blocks of flats, and similar structures. Ability to prepare Bills of Quantities and Specifications for such works would be an asset.

(d) ASSISTANT ESTATE and VALUATION OFFICER (Open Lines).

Salary: £375×£50—£1,675 p.a., plus overseas pay £300 p.a.

Qualifications: Candidates must be age £2/30.

Salary: £575×£50—£1,675 p.a., plus overseas pay £300 p.a.
Qualifications: Candidates must be age 22,30. They must be either (a) Corporate Members of Royal Institution of Chartered Surveyors or Chartered Auctioneers' and Estate Agents' Institute or Land Agents' Society, or (b) have passed a degree or other examinations necessary for obtaining Corporate Membership of one of the foregoing Institutions, or (c) have a degree in Estate Management—B.A. Cambridge or B.Sc. London. Candidates admitted under (b) and (c) will be required to qualify under (a) in due course.

will be required to qualify under (a) in due course.

Commencing salary in each case depends upon qualifications and experience. Terms of service provide for tours of 15 months each, 7 days full pay leave per month of service, free passages for officer and wife, and separate domicile allowance of £75 per annum for each in respect of a maximum of two children while in the U.K., or cost of their passages to and from Nigeria if under 18 years of age. Part furnished quarters able on first appointment.

Appointment under (a)—(c) will be on contract terms only, which provide for a gratuity of 20 per cent, of total salary, plus overseas pay, payable at the end of each tour or on final completion of service. Appointment under (d) may be either on pensionable or contract terms.

Applications, giving details of experience, qualifications and age, should be addressed to London Representative. Nigerian Railway Corporation, 11. Manchester Square, W.I. Closing date: 7th July, 1956.

NATIONAL COAL BOARD—

NATIONAL COAL BOARD—
NORTH EASTERN DIVISION
Applications are invited for the post of DIVISIONAL CHIEF ARCHITECT whose office will be located at Consborough, nr. Doncaster, Salary range for the appointment £1,725 to Applicants about the proposition of the constant of the

Salary range for the appointment 22.400.

Applicants should be Fellows or Associates of the Royal Institute of British Architects and Associates of the Institute of Landscape Architects; they should have had considerable experience of architectural design and construction.

The work of the Branch covers all colliery surface buildings (including Lamp Rooms Winding Engine Houses, Boiler Houses and Pithead Baths). Welfare Centres. Offices, etc.

Applications to the Staff Director, National Coal Board. North Eastern Division Holmwood House, Ecclesall Road South, Sheffield 11, to arrive not later than the 2nd July, 1956.

Envelopes should be marked "Staff Vacaney."

COUNTY BOROUGH OF DEWSBURY BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT Applications are invited for the appointment of PRINCIPAL ASSISTANT ARCHITECT (Housing and General Section) at a salary in accordance with A.P.T., Grade V (£795-£970 p.a.), the commencing salary to be fixed within the scope of this grade according to qualifications and experience.

Applicants should be Associates of the R.I.B.A., Applicants should be Associates of the R.I.B.A., with good architectural experience and know-ledge of local government procedure. Housing accommodation will be made available if re-

quired.

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

the Local Government of the Local Government of the successful applicant will be required.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Monday, 9th July, 1956, endorsed Principal Assistant Architect."

A. NORMAN JAMES,

Town Clerk.

Town Hall, Dewsbury.

16th June, 1956.

COUNTY BOROUGH OF ROTHERHAM
ARCHITECTURAL ASSISTANTS
Applications are invited for the following appointments:—
(a) Architectural Assistance (a) Architectural Architectural Assistance (a) Architectural (a) Architectural Assistance (a) Architectural (a) Architectural

appointments:—

(a) Architectural Assistants (3 vacancies) at a salary in accordance with the Special Grade, £690—£840.

(b) Senior Architectural Assistant at a salary in accordance with Grade A.P.T. IV, £710—£385.

Candidates for (a) are required to have passed Parts I and II of the R.I.B.A. final examination and (b) to be Associate Members of the R.I.B.A. with good general experience in design and construction.

R.I.B.A. with good general and construction.

Applications to be endorsed "Architectural Assistants" stating age, qualifications and details of experience together with the names of two referees, should be received by me not later than Monday, the 9th July, 1956.

Canvassing will disqualify.

JOHN S. WALL,

Town Clerk.

Municipal Offices, Rotherham.

Rotherham.

SOUTH CAMBRIDGESHIRE RURAL DISTRICT
COUNCIL
APPOINTMENT OF ARCHITECTURAL
Applications are invited for the appointment
of Architectural Assistant in the department of
the Council's Architect. Salary within the range
of A.P.T. III (£640-£765) or the Special Grade
(£690-£340), according to qualifications and experience.

(1959–2840), according to qualifications and experience.

The appointment will be subject to the provisions of the Local Government Superannuation Acts: the National Scheme of Conditions of Service: to a satisfactory medical examination, and one month's notice in writing on either side.

Forms of application can be obtained from the undersigned, to whom they must be returned not later than first post on Monday, the 9th July, 1956.

Housing accommodation in the Rural District may be provided for the successful candidate, if required.

Canvassing, directly or indirectly will disc

nyassing, directly or indirectly, will dis-

B. G. CRAFT.
County Hall, Hobson Street, Cambridge.

MIDDLEPP

16th June, 1956.

MIDDLESEX COUNTY COUNCIL—COUNTY PLANNING DEPT.
SENIOR PLANNING BEPT.
SENIOR PLANNING ASSISTANT, A.P.T. IV (£710—£885 p.a., plus London weighting). Appointments will be made at appropriate point on grade according to qualifications and experience in architecture or planning. Established, pensionable, subject to medical assessment and prescribed conditions. Application forms from County Planning Officer, 10, Gt. George Street, S.W.I, returnable by 9th July. (Quote T.64 A.J.) (Canvassing disqualifies.

returnable by 9th July. (Quote T.64 A.J.)
Canvassing disqualifies.

METROPOLITAN BOROUGH OF
SHOREDITCH
Applications are invited for the appointment of
TWO ASSISTANT ARCHITECTS. Salary
within Grades A.P.T. III and IV (670 to 2915),
according to experience and qualifications.
Subject to medical examination, Council's superannuation scheme, and N.J.C. conditions.
Applications to Borough Architect, Town Hall,
Old Street, E.C.1, stating age, training and
experience, giving names of two referees, to
arrive by 7th July, 1956.

THE UNIVERSITY OF MANCHESTER
Applications are invited for the post of
LECTURER IN TOWN AND COUNTRY
PLANNING. Applications must be qualified
Architects and Corporate Members of the Town
Planning Institute. Salary on a scale rising to
£1,350 per annum, with membership of the
F.S.U. and Children's Allowance Scheme:
initial salary according to qualifications and
practical experience. Applications should be sent
not later than 21st July to the Registrar, the
University, Manchester, 13, from whom further
particulars and forms of application may be
obtained.

CITY ARCHITECT'S DEPARTMENT,
MANCHESTER
SENIOR ASSISTANT ARCHITECT (Temporary) required. Salary: A.P.T. IV (£710—£885). Must be A.R.I.B.A. Particulars and form from City Architect, P.O. Box 488, Town Hall,
Manchester, 2. Closing date: 2nd July. 1460

Tenders Invited

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

6 Innes or under, 12s. 6d.; each additional line, 2s.
GREATER EALING OLD PEOPLE'S HOMES LIMITED HOSTEL FOR AGED PEOPLE, NORTHOLT PARK Greater Ealing Old People's. Homes Ltd. propose to erect on the Northolt Park Estate a hostel for 47 aged people and contractors are invited to submit their names for this work. Those who have not carried out similar or substantial housing works should enclose with their application particulars of contracts and the type of work executed by them. The Society will then select contractors whom they consider most suitable for the work and their decision will be final. It is expected that the tender documents will be ready during August, 1956. Applications should be sent to me, at the Town Hall, Ealing, W.5. Closing date 30th June, 1956.

MANCHESTER PEGIONAL HOSPITAL

MANCHESTER REGIONAL HOSPITAL
BOARD
NOTICE TO ALL BUILDING AND
ENGINEERING CONTRACTORS
The Manchester Regional Hospital Board propose to maintain an "Approved List of Contractors" for the execution of works of new buildings and engineering works, and, unless in any particular case and for particular reasons the Board shall direct otherwise, tenders for the carrying out of such works at any of the hospitals and clinics administered by the Board will only be invited from firms or persons whose names are included in the Approved List. The Board's area covers parts of four counties—Lancashire, Derbyshire, Cheshire and Westmorland. Contractors who wish to be considered for inclusion in the List should apply to the Secretary of the Board, Cheetwood Road, Manchester, 8, not later than 14th July, 1956, for form of application and further details. 1447

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s. A RCHITECTURAL ASSISTANTS, Senior and Junior required, preferably with London practice experience, office and factory buildings. Write, giving particulars of experience, etc., to Messrs. Bates & Sinning, 89, Chancery Lane. W.C.2.

CO-OPERATIVE WHOLESALE SOCIETY, LTD.
ARCHITECT'S DEPARTMENT, MANCHESTER.
A PPLICATIONS are invited for the following appointments:

appointments:—

(a) SENIOR ASSISTANT ARCHITECTS, with experience of work on commercial and industrial

experience of work on commercial and projects.
(Salary range £820 to £975 per annum.)
(b) ASSITANT ARCHITECTS, capable of preparing working drawings from preliminary details.
(Salary range £550 to £820 per annum.)
There is a five-day week in operation, and both appointments offer prospects of upgrading.
Applications, stating age, experience, qualifications and salary required, to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4, 3871

A RCHITECTURAL ASSISTANT, Intermediate standard, required in busy South-West London office—Reply, stating age, salary, and experience, to Box 1334.

LONDON Consultants require immediately ASSISTANTS of both Inter. and Final R.I.B.A. standard for varied and interesting contemporary industrial projects. Responsibility given to applicants with good design sense and constructional ability. Apply, giving full particulars and salary required. to Box No. 401, Glovers Advertising Ltd., 351, Oxford Street, London, W.1.

SENIOR ARCHITECT required for work in South Wales on the design and co-ordination of industrial projects. Candidates must be qualified A.R.I.B.A.—Please write, giving details of previous experience and salary required, to Box No. 417, Glovers Advertising, Ltd., 351, Oxford Street, London, W.1.

Oxford Street, London, W.1.

RICHARD COSTAIN LTD., have vacancies in their Architects' Department for ARCHITECTURAL ASSISTANTS. of Intermediate and up to Final R.I.B.A. standard.

Good salaries in proportion to age and experience. First-class canteen and social amenities. Application should be sent to:

H. S. SMITH, R.I.B.A., 111, Westminster Bridge Road, London, S.E.1, 1466

SEELY & PAGET have two vacancies in their City office, recently qualified or near final standard. The work is varied and covers ecclesiastical, colleges, schools, domestic and general work. Salary by agreement according to experience. Telephone CEN 0321.

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R ONALD FIELDING, A.R.I.B.A., requires SENIOR and JUNIOR ASSISTANTS. Please apply with details of experience, age and salary required to Aldwych House, London, W.C. Chancery 3552/3.

Chancery 3532/3. 1300

A SENIOR REPRESENTATIVE is required for the North of England by leading nationally known manufacturers of prefabricated timber buildings. Sound knowledge of building construction is essential. Architectural background with experience of prefabrication or timber structures would be a considerable asset. This is an opportunity for a capable sales executive able to initiate, maintain and successfully finalise technical and commercial negotiations at high level. Send fullest details of qualifications and experience and career with age and salary levels in chronological order to Box 1297.

CO-OPERATIVE WHOLESALE SOCIETY, LTD.
ARCHITECT'S DEPARTMENT, BIRMINGHAM,
PPLICATIONS are invited for the following
appointments in a newly formed Branch
Office, Interesting and varied commercial and

office. Interesting and varied commercial and industrial projects.

(a) SENIOR ASSISTANT ARCHITECT, with experience in Store and Shop Design.

(Salary range #2820 to #975 per annum.)

(b) ASSISTANT ARCHITECTS, capable of preparing working drawings and details from preliminary sketches.

(Salary range #550 to £820 per annum.)

Both appointments offer prospects of upgrading. Applications, stating age, experience, qualifications, and salary required, to G. S. Hay. A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4, 3872.

THE ARCHITECTS' JOURNAL' requires in the preparation of Information Sheets and Working Details. First class draughtsmanship, knowledge of building construction and a ken interest in the compilation of technical information. Write to the Editor (Information Sheets, 9, Queen Anne's Gate, S.W.1, stating age, architectural training, and experience.

A RCHITECTURAL ASSISTANTS required for St. Albans office for work on School, Commercial and Housing projects. Should be good draughtsman with contemporary outlook. Good Salaries. Write to Box 9579.

A RCHITECTURAL ASSISTANT required in busy London office with varied practice. Good salary and prospects for suitable applicant-5-day week. Write, giving particulars of age qualifications, experience, etc., to Box 775, c/o 7, Coptic Street, W.C.1.

CROYDON office. ARCHITECTURAL ASSISTANT required, with initiative, preferably qualified. Varied and interesting work. Write stating experience, age and salary required to George Lowe & Partner, 4, High Street, Croydon.

A RCHITECTS' Co-partnership require ASSIS-TANT for working drawings and detailed design. Salary according to experience. Office doing work in U.K. and West Africa. Write 44. Charlotte Street, London, W.I. or telephone Langham 5791.

Langham 5791.

QUALIFIED ASSISTANT required immediately. Apply in writing, stating age, detailed for practical experience and when available, to S. P. Jordan, A.R.I.B.A., M.S.I.A., Dip.T.P., Il. King's Road, Sloane Square, S.W.J.

A RCHITECTS' ASSISTANT, male or female required for domestic and commercial working and commercial working and office experience required. Salary 280 to £800 according to experience - 5-day week Write stating experience to R. Jelinek-Karl F.R.I.B.A., 22, Chancery Lane, W.C.2.

SENIOR AND JUNIOR ASSISTANTS required for large schemes of contemporary cants. Five-day week. Please write giving ful particulars of experience and salary required to Johns. Slater & Haward, F/A.R.I.B.A., & Foundation Street, Ipswich.

PRIVATE practice office has vacancy for ASSISTANT, willing to take control of jobs. Work includes domestic, ecclesiastical, commercial and industrial, modern and traditional. Urgent—Send details age, experience, and salar suggested to Forsyth Lawson, Cunningham & Partners, 30, Horse Fair, Banbury, Oxon.

Partners, 30, Horse Fair, Banbury, Oxon.

A RCHITECTURAL ASSISTANT required in busy West End office. Salary up to £1,00 p.a., according to experience. 5-day week.—Apply in writing, with all details, to Mewes & Davis, 1, Old Burlington Street, W.1.

W. H. WATKINS, GRAY & PARTNERS require ASSISTANTS of Intermediate schools. Pension scheme in operation.—Write of phone 57, Catherine Place, S.W.1. Victoria 776, 1350

Good salaries. A RCHITECTURAL ASSISTANTS
for small West End Office. Good Write to Box 9580.

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A RCHITECTS.—One experienced Senior and one competent Junior Assistant required by West End Architects for interesting airport projects. Aptitude for engineering and industrial detail essential. Salary according to experience.—Box 1560.

A RCHITECTURAL ASSISTANT.—Must be qualified and have had good general experience, including Industrial projects; also must be capable of preparing designs, working drawings and specifications, site supervision and surveys. Annual bonus. Paid overtime. Scope for individual expression in office with progressive approach to Architecture. Private practice, approximately 7 miles south of Manchester.—

ARCHITECT with small City office requires responsible ASSISTANT. Salary £650—£750 per annun.—Ring Central 5766 or write Box 1364.

ADY ARCHITECTURAL ASSISTANT or quired, Intermediate to Final standard.—Write, stating experience and salary, to Frederick Gibberd, 8, Percy Street, London, W.1. 1363

ARCHITECTURAL ASSISTANT required, to Intermediate standard, Westminster office. Pension and Bonus schemes. 5-day week.—Write, stating experience, age, and salary required, to Box 1339.

quired, to Box 1339.

ARCHITECTURAL ASSISTANT required, of R.I.B.A. Intermediate or Final standard. Give details of qualifications age, experience, and salary required, to Howells & Doherty, Architects and Quantity Surveyors, Masonic Buildings, Bangor, N. Wales.

ARCHITECTURAL ASSISTANT required for small busy West London practice. Intermediate or R.I.B.A. Final standard, with office experience. No Saturdays: holiday bookings respected.—Shaw & Lloyd, Museum 9693. 1336

ARCHITECTURAL ASSISTANT, of Intersection of the standard, required for offices, London, N.I. Some office experience and neat draughtsmanship essential. Permanent position with good prospects.—Full details and salary required to Box 1335.

Box 1335.

CO-OPERATIVE WHOLESALE SOCIETY,
LTD., Architect's Department, London: (a)
TAKER-OFF; (b) WORKER-UP. Applicants are
invited from suitably qualified persons. Salary
on the scales: (a) £850-£1,005; (b) £580-£850,
both inclusive of L.W., with placing according
to age, qualifications and experience. The posts
are superannuable, subject to medical examinations. 5-day week in operation.—Applicants,
stating age, experience, qualifications and salary
required, to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99,
Leman Street, London, E.1.

3255
A RCHITECTY ASSISTANT required immedi-

lect, Co-operative Wholesaie Society, 2012.

ARCHITECT'S ASSISTANT required immediately for medium sized office, preferably with Intermediate Examination, having contemporary outlook. Salary £11 per week.—Write, with details, giving age and experience, J. Boland Sidwell, A.R.I.B.A., 27, Union Street, Coventry. Tel. 2393 (3 lines). 1276

Full opportunities for ASSISTANT ARCHITECT'S to practice Architecture in progressive office. Pleasant working conditions, good company. Some School training prospessive office experience necessary. Basic salary and sugaranteed honu £1,000 per annum, plus overlime on basic rates, for minimum of one year, following three months trial period. Possibility of permanence, with established superannuation scheme.—Apply 12, Guildhall Street, Preston.

J SAINSBURY, LTD., Multiple Food Distributors in London, the Midlands and South-East England. require additional ARCHITECTURAL ASSISTANYS. of Intermediate standard, between the ages of 25 and 35. Posts are permanent and pensionable. 5-day week. Salary in accordance with qualifications and experience, but not less than £700 per amnum. Holiday arrangements respected. Consideration would also be given to applicants who have not yet reached Intermediate standard.—Wite, giving details of age, education, qualifications and experience, to The Personnel Manager (A.A.), Stamford House, Stamford Meret, London. S.E.:

A RCHITECTURAL ASSISTANT required in Architect's Department of London Brewery Company. Must be good draughtsman.—Write, stating age, experience, salary required, Box 1428.

ARCHITECT'S ASSISTANT, Final standard, required, West London office.—Hammond Harvey. RIV. 3108.

Applications for the Menders of the National Health Seventh Street, and for the Mender of the National Health Seventh Services of the National Health Services was the National Health Services of the National Health Service

M. O. CARTER, Secretary.

27, Tyndalls Park Road, Clifton, Bristol, 8.

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SENIOR ASSISTANT required in small West
End private office. Good prospects; abuilty
the main quankcation. Sanary 8200. Write in
confidence; all letters answered—Box 1396.

ORMAN & DAWBARN invite applications
from ASSISTANTS or ASSISTANT ARCHITECTS, of Inter. or nigner standard, with at
least 3 years' office experience. Interesting and
varied programme of U.K. and overseas work.—
Write to 7, Portland Place, London. W.I., or
phone Langham 8011.

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RONALD WARD & PARTNERS require
several ARCHITECTURAL ASSISTANTS,
with contemporary outlook and willing to use
own initiative. Salary range £500 to £800.
Interesting and varied work, nome and abroad.
Congenial working conditions.—Apply 29, Chesham
Place, Reigrave Square, S.W.I. Telephone
Belgravia 3561.

MPERIAL CHEMICAL INDUSTRIES, LTD.,
Dyestuffs Division, requires an ARCHITECTURAL DRAUGHTSMAN, of Intermediate
R.I.B.A. standard, possessing a sound knowledge
of building construction, together with experience in the preparation of working drawings and
details for industrial and commercial buildings.
Knowledge of structural framework design an
advantage.—Applications, with brief details of
experience, should be sent to Staff Department,
Hexagon House, Blackley, Manchester, 9, 1400

UNIOR ASSISTANT required. Hours
9-5.30, 10-12 Saturdays. Salary subject to
experience and ability.—Write, giving full particulars, Meredith & Partneres, Architects and
Surveyors, 6, Victoria House, Goodmayes, Essex.

1406

STEPNEY M.B.C. require ARCHITECTURAL

ASSISTANTS. (neetablished). Salary un to

STEPNEY M.B.C. require ARCHITECTURAL ASSISTANTS (unestablished), Salary up to £915 p.a., according to qualifications and experience.—Apply Borough Engineer, 227. Commercial Road, E.l.

A SENIOR ASSISTANT ARCHITECT required for large practice in West Indies, to work under resident partner. First-class opportunity for capable man with initiative and tact. Applicants should be qualified, preferably schooltrained, and be able to produce highest references as to ability and character. Previous tropical experience an advantage but not essential—Apply in writing, giving age and experience, to W. H. Watkins, Gray, Ff./R.I.B.A., Partners, 57, Catherine Place, Palace Street, London, S.W.1. 1408

WEST INDIES.—Qualified SURVEYOR required for West Indies office. Site surveyor, contractor's account, etc. Must be able to prepare quantities. Good salary and prospects. Highest references as to ability and character required.—Apply, giving particulars of experience, age, etc., to W. H. Watkins, Gray, FF./R.I.B.A., & Partners, 57, Catherine Place, Palace Street, London, S.W.1.

ARCHITECTURAL ASSISTANT and DRAUGHTSMAN required by Brewery Company in the Home Counties, Alterations and maintenance of properties. Permanent position, pension scheme. Apply, stating salary required, age, and experience. Junior considered. Box 1410.

K NIGHTSBRIDGE. — ARCHITECTURAL ASSISTANT required. Salary £600 per annum. Telephone Belgravia 3361.—Box 1411.

BRITISH OXYGEN GASES, LTD., require the services of an ARCHITECTURAL DRAUGHTSMAN for work at their West Endoffices. The work is in connection with the layout of both factory and office blocks, and some experience in this field is necessary. An attractive commencing salary is offered, together with good canteen facilities and a pension fund.—Full details should be sent to Personnel Manager, Bridgewater House, Cleveland Row, St. James's, London, S.W.1.

REQUIRED immediately SENIOR ASSIS-trans. With sound basic knowledge of con-struction, working drawings and supervision. To work in Jamaica on three-year contract basis, with progressive firm, with prospects of renewal.— Details of applicant and telephone number to Box 1417.

SCHERRER & HICKS, of 19, Cavendish Square, W.1 (Tel. Museum 1105) require immediately a number of ARCHITECTURAL ASSISFANTS, of Intermediate standing, with imagination and initiative. The work is varied and covers Research Laboratories, Offices, Housing and Schools. 5-day week. Salary by arrangement.

A RCHITECTURAL ASSISTANT required.
Good draughtsman, with office experience and knowledge of building construction.—Apply, stating salary required, to Caroe & Partners, 16, Great College Street, Westminster. 1433

Great College Street, Westminster.

A RCHITECTURAL ASSISTANT required by Poplar Borough Council. Salary A.P.T. II (£095—£675, plus "weignting"). Applicants should have passed Intermediate R.I.B.A. or equivalent. Application forms obtainable from Borouga Engineer and Surveyor, Poplar Town Hall, Bow Road, E.S. Closing date: 2nd July, 1956.

REQUIRED, early in July, an ARCHITECTURAL ASSISTANT of Intermediate or
Final standard, in busy practice in South
Worcestershire country town. The work is of a
varied nature, including schools, housing and
industrial buildings. Applicants must be keen,
and able to act on own initiative, with a sense
of design. Travelling expenses will be paid for
interviews. Either male or female assistants
will be considered, or one just finishing at Architectural School.—Reply to Box 1426.

A SSISTANT required for small office. Final

A SSISTANT required for small office. Final or Intermediate standard, with good office experience. Salary £600-£700 p.a., according to experience.—Write or telephone Alan 8. Raimes, A.R.I.B.A., 6, Holborn Viaduct, E.C.I. City 4201.

Raimes, A.K.I.B.A., b, Holborn Viaduct, E.C.I. City 4201.

INTERMEDIATE and JUNIOR ASSISTANTS required in Progressive London Office. Lewis, Solomon, Son & Joseph, 21, Bloomsbury Way, W.C.I. HOLborn 7082.

A RCHITECTURAL ASSISTANT required, A under 45 years of age, with previous office experience, preferably of housing projects. Salary according to ability and experience. Particulars, etc., from Town Clerk, Bermondsey, S.E.I.6. 1445

A RCHITECTURAL ASSISTANT required, of Intermediate standard and with experience in Industrial work. Opportunity for advancement. Details of practical experience to C. F. L. Horsfall & Son, Lord Street Chambers, Halifax.

CAPE TOWN architects of standing doing contemporary work require suitable CHEF DE BUREAU to handle a reasonably large hospital project. Applicants must have had at least ten years' experience with emphasis on hospital work. For further details apply quoting OSS.98/3 to O.T.S., 5, Welldon Crescent, Harrow, Middx.

ONE SENIOR and one JUNIOR ASSISTANT required for small expanding department of Contractor's Office, Industrial, commercial and high quality house development. Wide scope and prospects. Five-day week; superannuation scheme. Salary range £550-£850 per annum. Please write with details for early interview to Howard Farrow Ltd. (Architect's Dept.), I, Russell Parade, Golders Green Road, N.W.11.

ARCHITECTURAL ASSISTANT, qualified, prospects for man of ability. Work varied and interesting. Hickton, Madeley & Salt, 24, Hatherton Road, Walsall.

ARCHITECTURAL ASSISTANTS, up to Final ARCHITECTURAL ASSISTANTS, up to Final design work on home and tropical buildings. Salary according to experience.—Apply E. J. D. Mansfield, A.R.I.B.A., Sir William Halcrow & Partners, Stanhope House, 47, Park Lane, London, W.1.

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