EINE ARTS DEPT.		The Architects' JOURNAL for August 12, 1954
THE A	R	CHITE GELICTIBR SY ? AUG 2 31954
	J	OURNAL
	of all kind lished in ty	sary of abbreviations of Government Departments and Societies and Committees is, together with their full address and telephone numbers. The glossary is pub- wo parts—A to Ie one week, Ig to Z the next. In all cases where the town is not the word LONDON is implicit in the address.
	AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1, Museum 0974 Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts.
tandard contents every issue does not necessarily contain all these contents but they are the regular features which continually recur	ABS ABT ACGB ADA ArchSA ARCUK BAE BATC	Architects' Benevolent Society.       66, Portland Place, W.1       Langham 5721         Association of Building Technicians.       5, Ashley Place, S.W.1.       Victoria 0447-8         Arts Council of Great Britain.       4, St. James' Square, S.W.1.       Whitehall 9737         Aluminium Development Association.       33, Grosvenor Street, W.1.       Mayfair 7501/8         Architectural Students' Association.       34/36, Bedford Square, W.C.1.       Langham 8738         Board of Architectural Education.       66, Portland Place, W.1       Langham 8738         Board of Architectural Education.       66, Portland Place, W.1.       Langham 5721
NEWS and COMMENT Diary Yews	BC BCCF BCIRA BDA BEDA BIA	Reliance 7611, Ext. 1706 Building Centre. 26, Store Street, Tottenham Court Road, W.C.1. Museum 5400 British Colour Council. 13, Portman Square, W.1. Welbeck 4185 British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5. Ealing 9621 British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716 British Door Association. 10, The Boltons, S.W.10. Fremantle 8494 British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434 British Ironfounders' Association. 145, Vincent Street, Glasgow Central 2891
stragal's Notes and Topics etters ocieties and Institutions	BIAE BID BINC BOT	British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385 Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772 Building Industries National Council. 1 <sup>1</sup> , Weymouth Street, W.1. Langham 2785 Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1. Trafalgar 8855
	BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3. Mansion House 9383
TECHNICAL SECTION normation Sheets normation Centre	BRS BSA BSI BTE CABAS	Building Research Station.       Buckmalls Lane, Watford.       Garston 2246         Building Societies Association.       14, Park Street, W.1.       Mayfair 0515         British Standards Institution.       British Standards House, 2, Park St., W.1.       Mayfair 0515         Building Trades Exhibition.       4, Vernon Place, W.C.1.       Holborn 8146/7         City and Borough Architects Society.       C/o Johnson Blackett, F.R.I.B.A.,
urrent Technique	CAS	C'vic Centre, Newport, Mon. Newport 5491 County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester. Chichester 3001
Puestions and Answers rices The Industry PHYSICAL PLANNING	CCA CCP CDA CIAM COID CPRE CUC CVE DGW	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255 Council for Codes of Practice. Lambeth Bridge House, S.E.1. Reliance 7611 Copper Development Association. Kendals Hall, Radlett, Herts. Radlett 5616 Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland. Council of Industrial Design. Tilbury House, Petty France, S.W.1. Abbey 7080 Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 Coal Utilization Council. 3, Upper Belgrave Street, S.W.1. Sloane 9116 Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255 Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
SUPPLEMENT	DIA DPT	Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540 Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1. Trafalgar 8855
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	FBBDO FBI	Fibre Building Board Development Organisation, Ltd., Melbourne House, Aldwych, W.C.2. Temple Bar 4561 Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711
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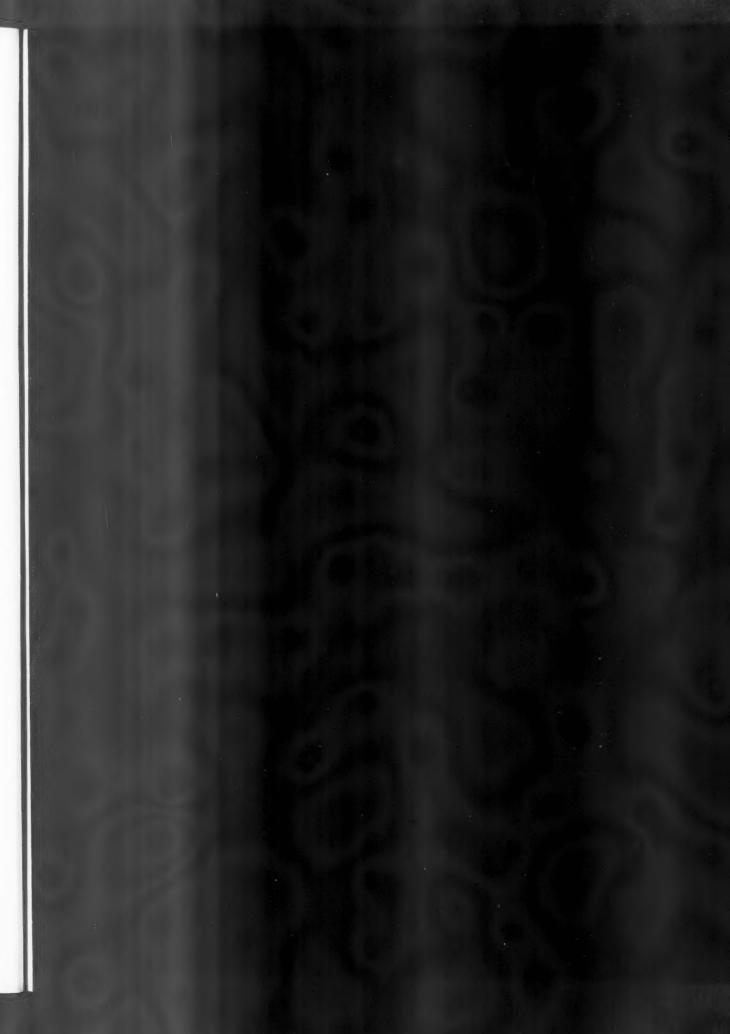


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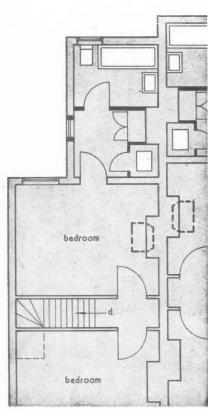
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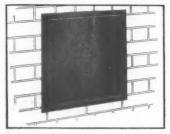
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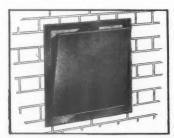
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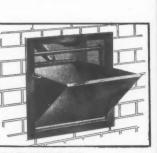
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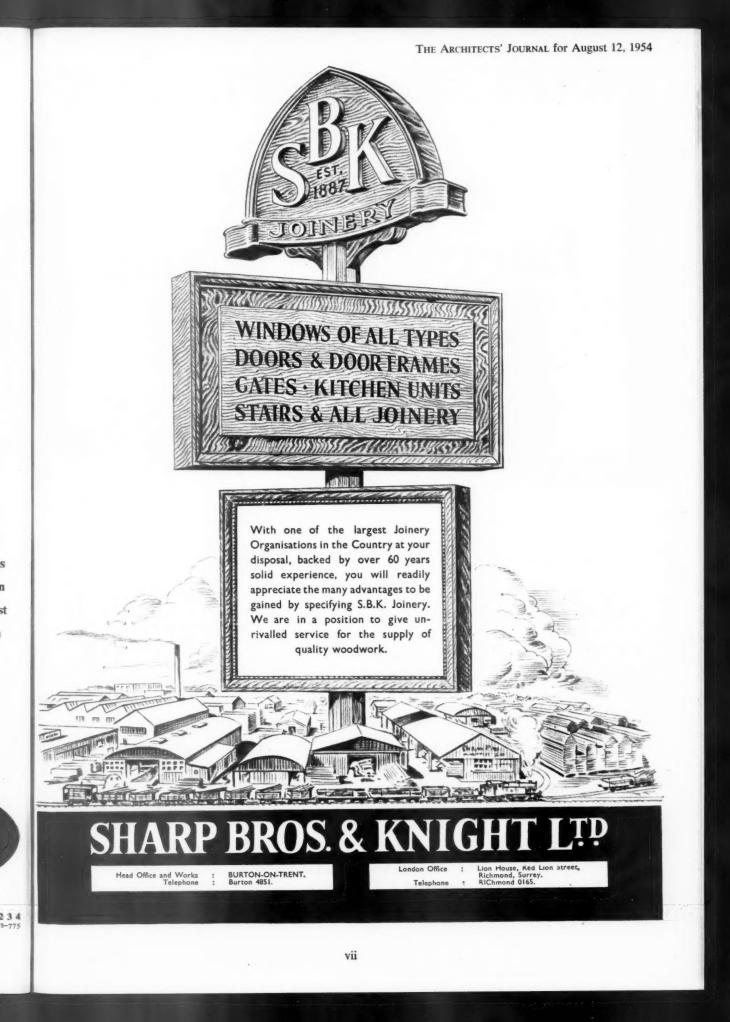


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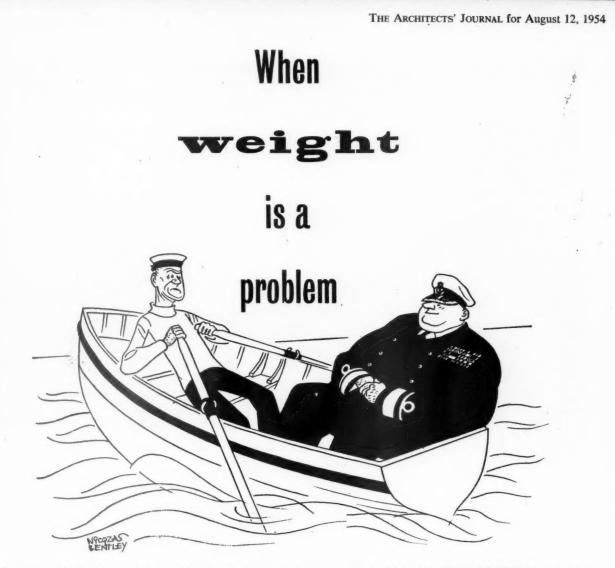
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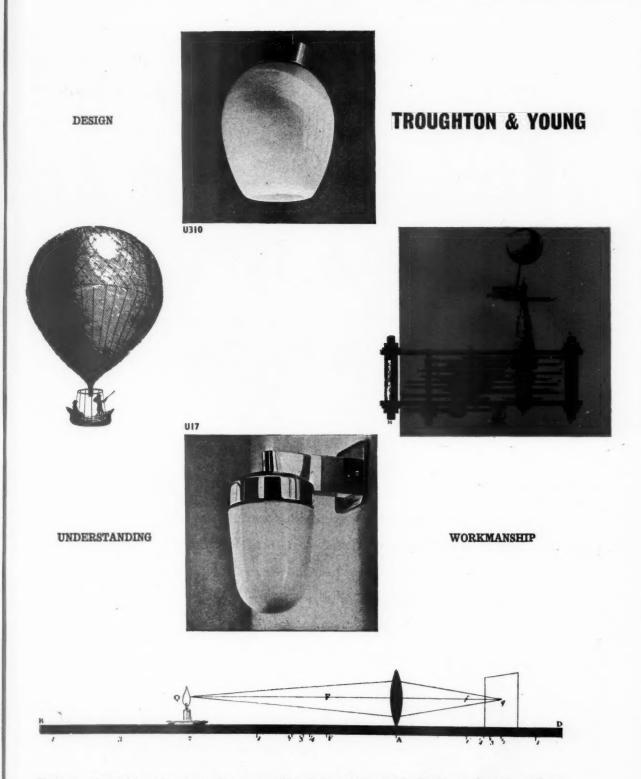
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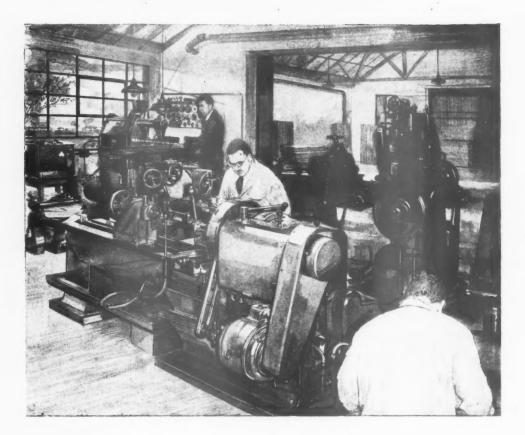
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July 12, 1954

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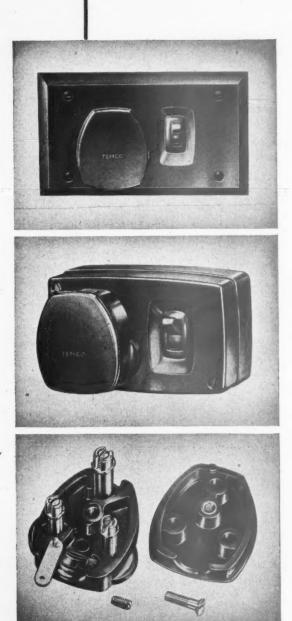
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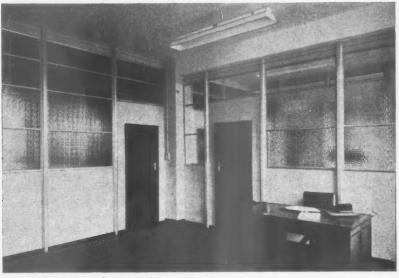
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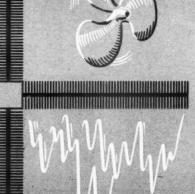
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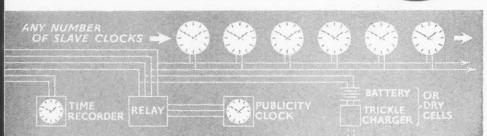
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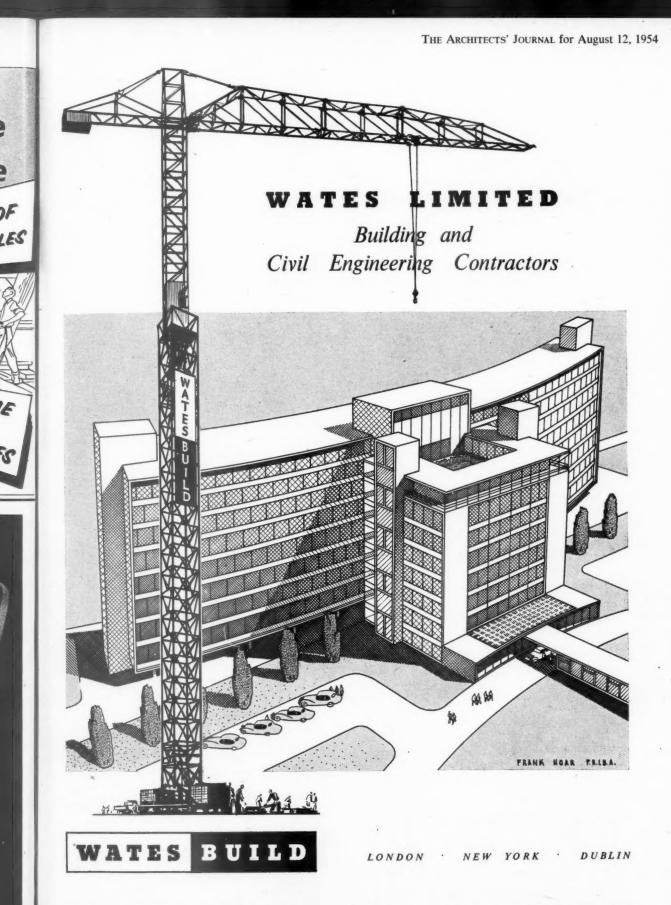
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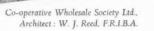
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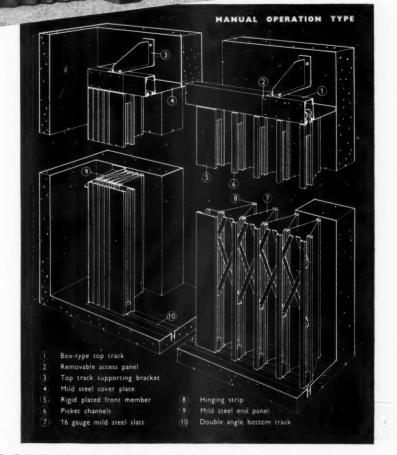


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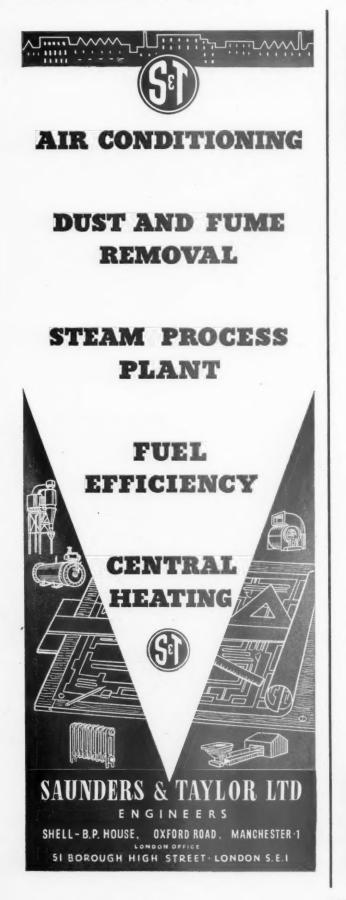
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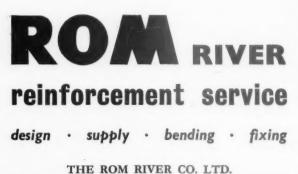
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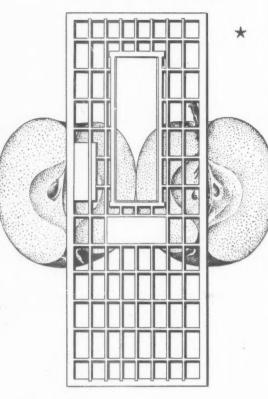


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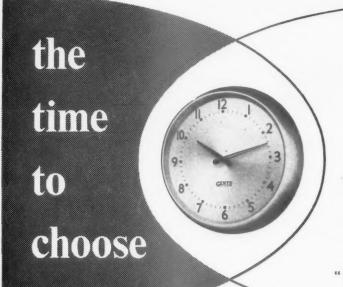
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THE ARCHITECTS' JOURNAL for August 12, 1954

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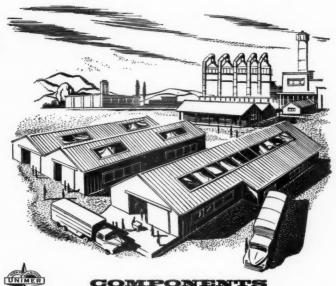
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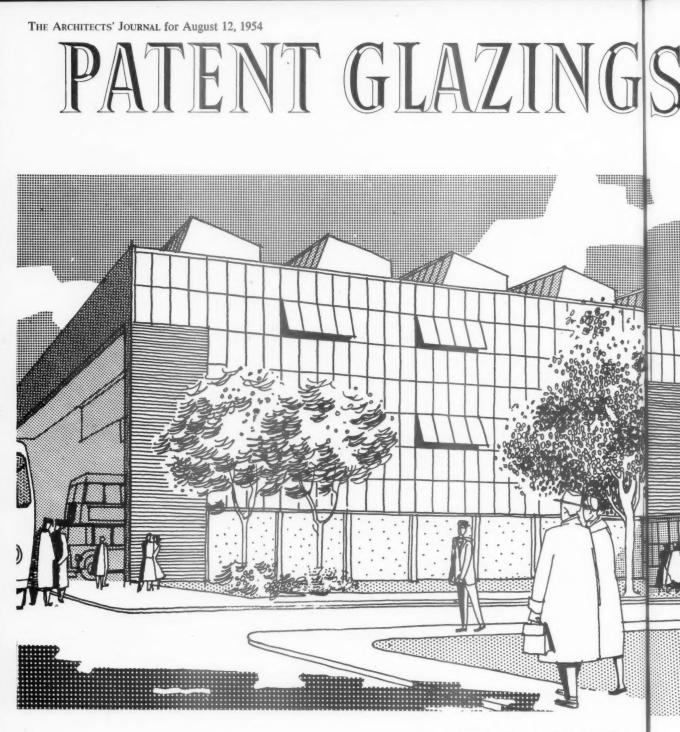
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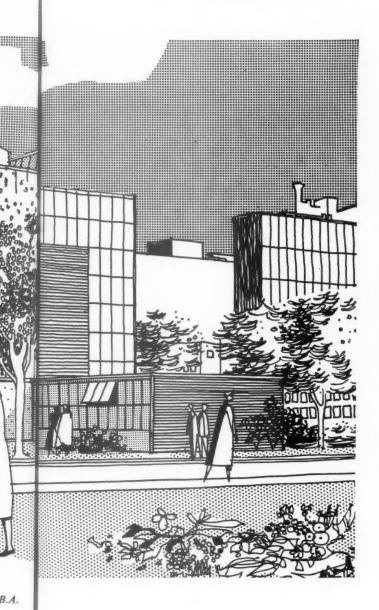
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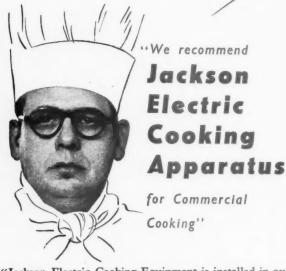
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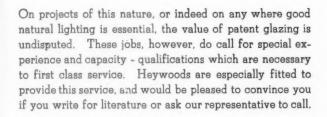






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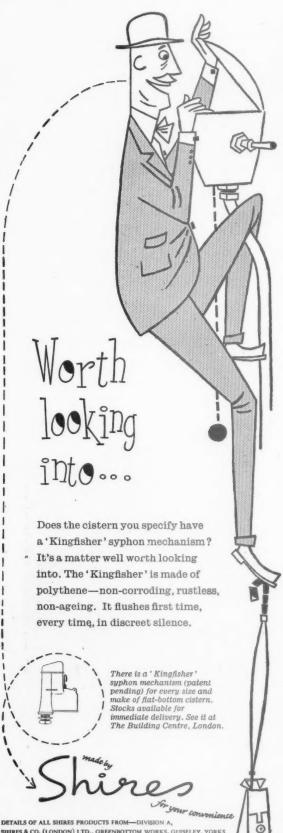
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THE ARCHITECTS' JOURNAL for August 12, 1954

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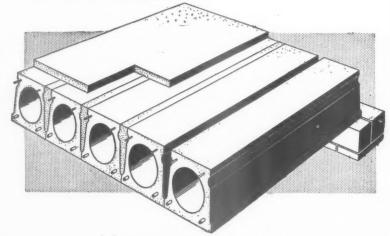
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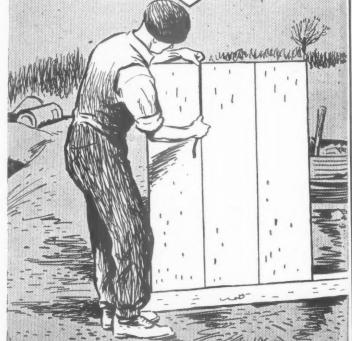
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The Ilex, evergreen tree beloved by the ancients of a Mediterranean world and exclusive nesting place of the bright-plumaged Jay, is today a contented immigrant in Britain. In this Semastic tile the dark green of its glossy leaves is the motif of a colour pattern that includes the grey-green shade of its underleaf, and the golden sienna of its fruit, the acorn. Craftsman made and craftsman laid, these tiles are noted for their exquisite colourings.

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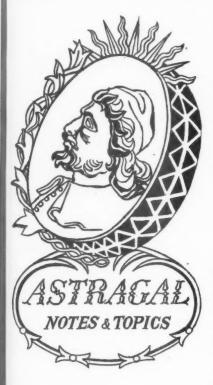


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	. THE ARCHITECTS' JOURNAL for August 12, 1954 [181
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#### MORE "SPEC" SPECULATIONS

Last week the JOURNAL's editors published a letter from a spec. builder, explaining why he thought architects were unnecessary in house-designing. His argument was based on the good old premise that "an Englishman's home is his castle." That sort of argument is, of course, unanswerable, and many a JOURNAL reader must have bowed his head with shame at the thought of the horrid things he had said about spec. building. ASTRAGAL himself had barely wiped away a hot tear when his cooling eye fell coldly on an article " In Defence of the Speculative House," in the Illustrated Carpenter and Builder. With as deft a move as may be seen in any

branch of Boots's library he thumbed his way to the last sentence. In this the writer—who calls himself "Veritas" for no obvious reason—sums up his views on the suggestion that builders should be forced to use architects. This, he says, is "contrary to the basic principles of the British way of life." Gad sir, it almost makes one give up the fight. But there *are* times when we must forget to be so dashed British. And so, with a brave gesture, ASTRAGAL tosses his topee over the windmill, and prepares to examine the views of "Veritas."

It is rather difficult to sort out the sad muddle that "Veritas" gets himself into. First, he says that " compulsion would be regarded as the result of failure on the part of the profession" . . . "if the profession provided markedly superior services, no problem would exist. Any commodity, however expensive, if outstandingly good, sells itself by sheer virtue of its superiority." Then he asks us to look at the work of " highly-qualified architects " in the new towns ... " Row upon monotonous row of boot boxes with holes punched in the sides and gable-ended lids set on top." And then, with "the British way of life" surging up in his angry breast, "Veritas" brings in a hypothetical client, named-how did you guess?-Smith. "If compulsory architectural services were introduced," he says, " Mr. Smith probably would not be able to buy the sort of house he'd really like." And the house he would really like " must not look like a council house " ... "He wants the bay window, the arched porch" . . . "Ours is still a democracy. . . ."

In other words, architects ought to do better work, and house-buyers ought to have what they want. The implication is that the architects' better work would either be bay-windowed and archporched, or that it would be so attractive in other ways that house-buyers would want it instead of their conventional dream-houses. But " Veritas " does not have much hope of the architect improving his standards, and thus solving the spec. building problem. He has another solution to the problem. All we've got to do, he says, is to introduce "design" as a school subject. Then, apparently, when little boys and girls grow up they will like good architecture, and will be so ready to pay for it that spec. builders will simply have to employ architects whether they want to or not.

Well, that's all good clean fun, but we can't afford to wait for a new generation to learn to appreciate good design. ASTRAGAL thinks we should be realistic, if terribly un-British, and join with the ABT (defined by "Veritas," with the inaccuracy of one blinded by aggressive deference, as "the architects at the head") in its wish to see statutory provision made for compulsory architectural services.

#### CRIB SERIES

The second volume of Architects' Working Details\* has now been published and it is encouraging to learn if rather frustrating for would-be readers —that the orders for it were so large that it is already scarce. However, if you place your orders now—not forgetting Volume I if you have not already got it—you can be sure of getting, within a

\* Architectural Press. £1 1s.

# CREATION WITH CRAFTSMANSHIP



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On Bank Holiday Saturday ASTRAGAL walked out of the shop shown on the right with a new pair of shoe laces. Having tested them, and decided that he liked them,

them, and decided that he liked them, he returned on the following Tuesday to get a pair of shoes to go with them. By then the shop looked as it does above. How was it done? By prefabrication and pre-organization, under the direction of Ellis Somake, staff architect for Dolcis. The full story of this 68-hour assault, which involved 150 men in two shifts, will be told in a subsequent issue of the JOURNAL.

P

short time, the best-produced details available of first-class work.

Old hands like ASTRAGAL and his contemporaries can marvel at the brilliance and ingenuity of the detailing done by the hard-working staffs of some of the best architects in the country. And students and lesser fry, while happily cribbing and educating themselves, can have a jolly time looking for the clay feet (by proxy) of our architectural heroes.

A must, not for the bookshelves, but for the drawing board. It lies flat, don't forget, when opened.

#### CUTTING REMARKS

ES)

"Mr. Foster asked Kern if he wanted £3 10s. he had in the bedroom. 'You just want to go there to get a gun, don't you?' Kern replied. 'Go ahead, get your gun.'..." Fascinating stuff, no doubt, but at first ASTRAGAL couldn't see why the architect-reader who had sent him this report in a newspaper cutting had asked, irrelevantly: "what price the Royal Fine Art Commission?" Surely, ASTRAGAL thought to himself, there is a limit to what we can expect of the Commission. And then, remembering his unfailing habit of reading the



wrong side of newspaper cuttings, he reluctantly left "Couple Defied Gunman" and turned over to "Ugly Street Lamp Designs to Go." According to this item, "All designs passed by the Royal Fine Art Commission but not approved by the Council (of Industrial Design) are to be withdrawn under an agreement between the Ministry of Transport, the Commission and the manufacturers. The withdrawal will start in January and take five years."

Good for the COID! But what's all this about the Royal Fine Art Commission? The cutting goes on to explain—in the words of the Earl of Crawford and Balcarres, chairman of the commission—that "the commission confined its activities to 'passing' those designs which avoided the worst faults."

The italics are mine, but a similar set can be obtained from any printer.

ISN'T IT A SMALL WORLD?

Not so very long ago I mentioned an enterprising firm which sells paint, paper and distemper, and also hires out the essential equipment for putting it on. I suggested that someone should also start a hire business in small-powered tools. I now find that this is being done in America where the "do it yourself" habit appears to have become quite big business, the cult being practised by all types from ex-Secretary of State Dean Acheson and Miss Jane Russell, to the ex-GI down the road.

#### GOING WEST

For a few days ASTRAGAL managed to keep pace with the National Trust Summer School on Country Houses, as it "did" the West Country. This admirable venture—forty-one stately homes in twenty-one days—does not merely take its foreign students to the well-known show pieces of the aristocratic life, but sends its bus crawling up narrow lanes

· . The state with



When is a Venetian Blind.

keeping " with the characteristic verticality of Venice than the spritely and well-judged uprights of Wright's project would be. But has anyone heard any protests? Hard-headed Venetians presumably know that they cannot afford to argue with the railway which brings them a constant stream of foreign sentimentalists-while the latter do not normally see the station façade until the day they leave, by which time ing on the Grand Canal, it is interesting to see what kind of modern buildings can be put up without offending Venetian sensibilities. This photograph, taken from an Italian publication, shows the new railway station façade, erected without After the fuss which was created about Frank Lloyd Wright's proposal for a buildinternational petitions or letters to The Times, tamely modernistic in its detailing 0 3 official

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to visit unknown gems like Tintinhull, Wren-school at its most endearingly domestic, or slithering down rarely-used drives to see James Talman's courtly magnificence at Dyrham. In Bath the summer scholars had not only a lecture in which a real live acanthus leaf was produced, to prove a point about the Corinthian order, but also Walter Ison to serve as Cicerone through the squares and crescents-a rare privilege which ought to be extended to home students from time to time.

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Although it was clear that some members of the party had heard the phrase, "But of course this is a home, not a museum," rather too frequently, most of them must have gained a powerful idea of the transitional condition of our They saw Lord country houses. Lee's pictures at Avening a few days before the collection was to be taken down and transferred to the Gallery at Birmingham; they saw Combe Hay in its now-restored condition-a use of riches such as that which Pope's celebrated Epistle enjoined on Lord Burlington; and they, and ASTRA-GAL, had seen the ruined chapel at Dodington. Nothing could be more affecting, nor more disastrously indicative of the precarious condition of the country-house way of life, than to see James Wyatt's undoubted masterpiece with its plaster work fallen in, the woodwork spongy with rot, the organ in ruins, ferns growing from the brickwork inside and all an air of miserable desolation-and all this the result of disasters which have occurred in the last four years.

ASTRAGAL, though not a frantic admirer of Wyatt, could barely keep his withers unwrung; it would touch any architect's heart to see this sorry spectacle. One's sympathies must go to those who have had to stand by and watch this sort of thing happen for lack of means and facilities to prevent it. But will someone now do something about it at once?---the salvaging of this masterpiece is not an affair for a recommendation for a Government grant, nor for a pious resolution from the Georgian Group. It needs a squad of men at work on the roof tomorrow.

#### THE ARCHITECTS' JOURNAL for August 12, 1954 [185

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Pimlico flats: a progress report		• •		page 189
Mayfield School, Putney: second	technical s	tudy		page 203

#### The Editors

### EDUCATION FOR THE BUILDING INDUSTRY

THE forthcoming classes of preparation for the City and Guilds of London Institute examination in Concrete Practice will be a milestone in the reform of education for the Building Industry. The new classes arose (as readers may remember) from the Symposium on Mix Design and Quality Control of Concrete sponsored by the CCA last May. Architects who have so much to lament in their own educational curriculum are inclined to forget that their colleagues among the operatives are saddled with curricula which fail in exactly the same way, and for exactly the same reasons. The current courses for building operatives have, as their object, the producing of a type of "art workman": a man well versed in traditional technique and for whom the highest ambition is to perform those chefs d'oeuvre of individual virtuosity to which the traditional crafts gave rise in their heyday. If architects want proof of this they have only to inspect the grisly array of students' work at technical college prizegivings. To the unreflective a strong case can be made out for this educational approach: "After all, what's wrong with a good grounding in the traditional crafts? Isn't the overwhelming volume of work still carried out by these methods?"

But a new manner of building requires a new type of operative. Architects of the past who were conscious innovators grew to realize this, and most of them took particular care to form the new generation of workmen to give the somewhat different service their vision required. If this is true of times when architectural change was a matter of surface difference, it is true in a more far-reaching manner now that change is so thoroughgoing.

It is easy to state the need but less easy to say in a few words what change should mean in terms of the curriculum. But the new concrete practice curriculum gives some pointers to the new educational pattern.

It is not possible to single out differences item by item in the space of a leader, but behind all is the substitution of an exact and ready knowledge of fundamental principles for the older teaching by rule of thumb. Clearly this requires of the trainee an intelligent participation which is of a different order from that formerly expected of him; but this is as it should be since it is a matter of common experience that as industrialization of technique proceeds there is need for more and more who can use their brains on the site.

ASTRAGAL | Courses like this are our best guarantee of better and cheaper

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building in the future; a guarantee also of a better life for the man on the site. This is a most practical consideration, for we hazard the guess that the antiquarian content of the old style curriculum is the greatest single drag on recruitment to the industry. No young man who has spent his early youth tinkering with his motor-bike is going to settle down confidently to the prospect of making four-centred arches in rubber bricks.



Ronald Bradshaw, A.R.I.B.A. John C. Tickle, Registered Architect H. Anthony Clark, F.R.I.B.A. A. Poniatowski. **Registered** Architect Ian S. Menzies Alan G. Fudge, A.R.I.B.A. A. Roscoe-Hudson, A.R.I.B.A. Architect to the TDA Francis J. C. Amos, A.R.I.B.A., and Geraldine M. Sutton, Michael Pattrick, A.R.I.B.A.

# Spec. Building

Principal of the AA

SIR,—With reference to the illustration of "A Unique Bungalow, Design No. 1014", and its caption in the JOURNAL for July 29 and its caption in the JOURNAL for July 29. Recent experiences, only one of which I here relate, lead me to believe that the problem of the attitude to design adopted by building societies and builders will not be solved by compelling builders to employ architects. It would be much more to the point for Mr. Macmillan to compel the societies to employ competent architects. I have recently won a three-month battle to obtain a mortgage on a new bungalow, the application for which was rejected simply because the specification contained, "3 Ply, bituminous roofing felt, with green mineral finish." The society's surveyor ad-vised the board that the material was, "of a temporary nature and most certain to

a temporary nature and most certain to repel prospective purchasers due to its appearance.

When I confronted the surveyor, an estate agent, who had been in practice for some twenty years, with evidence, he con-fessed that he had neither seen nor heard of the material before reading my specification.

If builders could obtain money only for well designed houses, how much more direct the cure! Please Mr. Macmillian, compel the societies to employ competent, up-to-date, trained architects as advisers.

RONALD BRADSHAW.

Warwicks.

SIR,—Your correspondents rather assume that all Spec. Building must be bad, and that this is what the public want. Now between the wars I did a great deal of work for builders on houses costing between £500 and £1,000. I always tried to get a good plan and inoffensive elevations and tho' I often had to give way and do things I did not like I am sure none of my houses could be called "horrid," and that they were all livable-in, which is more than can be said for some of the post-war small houses designed by architects, who I feel must never have lived in a house themselves. During the last ten years many of the During the last ten years many of the houses I did have been resold, and they have always gone very quickly and at much higher prices than houses of the horrid spec. type. Does not this show that given the chance the public prefer something a little better?

Another fact I have noticed is that those builders that had the sense to have their drawings done by architects are now in a much better financial position than the jerry merchants that built from their own horrid designs.

Letchworth.

JOHN C. TICKLE.

SIR.—I have read with interest the corre-spondence in the JOURNAL on speculative building, particularly the letter by G. S. Hewitt (August 5).

No one could quarrel with the principle that the customer's requirements should come first, but surely the requirement of any person building a house is that it shall be well planned, designed and constructed. A lay person, however, is seldom possessed of the knowledge as to how this may best be achieved, and is entitled to expect guidance.

Certainly any customer would have the right to feel disgusted and very much annoyed if he were told he must have something he did not like, but do people generally like the atrocious designs so often seen in specula-tively-built houses?

tively-built houses? What, in fact, are the features which render so many of these buildings ugly? They are not, I submit, purely æsthetic considerations, but generally practical ones as well. To give a few examples to illustrate my meaning: shorn eaves, which fail to give protection to the walls beneath; chimney stacks emerging at points which render the junction of roofs with stacks vulnerable to the penetration of damnness: bay windows whose flat roofs lack dampness; bay windows whose flat roofs lack spot at their junction with the main roof or wall immediately above or below the eaves; consequent penetration of dampness.

It has often been said that good design no more expensive than poor design. I thin this is too negative an attitude, and it would be more accurate to say that good design more economical than bad design. The suggestion that people cannot afford an arch ignorant of the worth of an architect, sing by the services he renders he saves the custo mer more than the fees he receives, and give the customer what he wants, in the best and

With the present housing shortage, man people are desperate for homes, and this un doubtedly accounts for the long waiting list which many speculative builders have for an sort of building that will give their custome

a roof, however unattractive, over their heads Many laymen are able to appreciate the of ference between a well-designed and a poorly designed house when they see them, but hav not the knowledge to discern what makes the one more pleasing than the other: and it all too obvious that the majority of specula

tive builders are even more in the dark. Having acted as architect in the develop-ment of speculative estates for more en lightened builders, I can say from experience that the architectural fees have made m material difference to the price the custome has to pay for the finished article, or to the very satisfactory profit that the builders make H. ANTHONY CLARK.

Wrexham.

Glam.

SIR,-Having the misfortune of existing i a house designed and built by a contractor and estate developer, I wonder whether Mr G. S. Hewitt would care to have his tonsit removed by a butcher, who after all is quite used to handling meat.

A. PONIATOWSKI.

SIR,—If his houses are anything like his correspondence, Mr. Hewitt has fully proved

the need for architects. I am one of the customers (small "c") of a spec. builder. My builders have produced a neat, unfussy and reasonable three-bedroom house (£1,995 freehold), outstanding in its functional simplicity. They have of course, used the services of an architect. Still, I am not singing their praises in the way Mr Hewitt kids himself his (capital) Customer are doing. Building on such low budgets can never be perfect; but I believe only a good architect can reject the unnecessary and beautify the bare essential. I had occasion to see the result of unqualified beautifying before I decided on my present house. I saw dozens of plans for veritable monstrosities, including, so help me, a *turreted*, semi-detached two-bedroom "villa."

But for that experience I might have refused to believe that there was such a person as Mr. Hewitt. His letter, after all, is just the sort one of your unscrupulous editors might have faked up to "fill your publication with something" something."

IAN S. MENZIES.

London.

SIR,—In pressing the Minister of Housing to introduce legislation to prohibit the erection of houses not designed by architects. are you not tackling the problem the unnecessarily hard way?

sarily hard way? I would suggest that, in order to prevent further repetition of the worst type of specu-lative house, the Minister be urged to insist that Local Planning Committees exercise their present powers consistently.

While an architect often finds himself taken up on fine points of design by the Planning Officer, the spec. builder—to whom the most elementary design principles have no meaning, obtains approval of his plans with little apparent difficulty. Surely, the important issue here is not who

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propares the designs but that every bad design should be rejected, whether prepared by an architect, builder or butchers' boy. ALAN G. FUDGE.

Southampton.

#### 1014 A.D. ?

SIR,—I note with some interest, not to say a little amusement, the "advice" the T.D.A. is apparently giving according to ASTRAGAL'S comment in the JOURNAL of July 29.

Surely it cannot be seriously contemplated that the "Unique Bungalow" illustrated is a "Contemporary Single Storey House." ASTRAGAL is well aware of the TDA's efforts towards the cause of advanced design, new towards the cause of advanced design, new techniques and researches into the provision of a rational basis for the determination of working stresses. This coupled with the harsh discipline of economy is not only a safeguard against the dissipation of effort in unrealistic and frivolous design but a criterion of good design. The design illus-trated No. 1014 is, to say the least, some-what unrealistic. Perhaps the design num-ber refers to the date. I don't know.

We are in no way responsible for the design illustrated and I can only think that the manufacturer's booklet was sent in error. A. ROSCOE-HUDSON.

London.

ASTRAGAL writes: I am glad to hear that the design I illustrated, which was sent to a reader who had asked the TDA for examples of contemporary houses in tim-ber, are not officially approved by the TDA.

### The Dynamics of Planning

SIR,-W. P. Winston, in his discerning analysis of the inadequacies of contem-porary planning (June 24, 1954) shows that the modern technique is fundamentally weak. Since the advantage of planning is that it can make provision for future change, this economising in the allocation of re-

sources—a function not normally performed by entrepreneurs, it follows that if planning does not make this provision it has no compensation to offer for that sacrifice of individual rights which is the price of future welfare welfare.

The causes of static planning appear to be fourfold:

(1) The present day tendency to take the short-term view, ignoring the needs of posterity, has developed hand in hand with industrialization, commercialism and mounting insecurity, so that business men and politicians are not prepared to provide for the more distant future;

(2) Since the accounting professions have grown up in the service of this attitude they assess costs in terms of past and present monetary costs rather than of future real costs;

(3) Similarly, since planning appears to have developed from the "constructional" professions which are primarily concerned with existing needs and resources, the approach of most technicians appears to be static. In addition, because co-ordination must be at least on a national scale it is undertaken by central and local government officials whose conditions of secure employ-ment tend to attract over-cautious people lacking the foresight and imagination essential to dynamic planning;

(4) The nature of our political system is such that planning proposals are ad-versely affected by the necessity for political leaders to consider the short-term effect of decisions on the electorate.

To re-establish planning on a more pro-gressive basis the technique needs to be remodelled by the introduction of incentives to dynamic planning. Within the limits imposed by the international situations, Government policy should ensure sufficient tability and security for desirable long-term Government policy should ensure sufficient stability and security for desirable long-term planning by financial and direct participa-tion. A form of social accounting should be evolved to assess costs in terms of future direct and indirect effect. This technique of costing, which is the real measure of the efficiency of a plan, will thus require that the recruitment of personnel should be expanded to include the forward looking sciences and all those concerned with the widest application of planning. The wider field of recruitment will permit a higher degree of selectivity of personnel who should be appointed for their initiative as well as technical ability. A diminution of political pressure with a maximisation of democratic planning can only be attained by the educaplanning can only be attained by the educa-

and responsible patterns of behaviour. There is, therefore, no panacea for static planning. The attainment of dynamic plan-ning must depend on a long and painful revolution of technique and outlook. There revolution of iechnique and outlook. There is, however, evidence that such a revolution has begun. Government action to ensure a high level of production is increasing; Economic Surveys are published annually; some members of the non "constructional" professions are appointed as planners and a growing emphasis is placed on the inter-relation of subjects in the educational field. Nevertheless, the fact that planning is still mainly static indicates that much has yet to be achieved. FRANCIS J. C. AMOS.

FRANCIS J. C. AMOS, GERALDINE M. SUTTON.

#### London.

### Apprentices and Students

SIR.—On July 29 ASTRAGAL asked: "Is it beyond hope to get some form of relationship between building trades apprentices and architectural students." I am glad to be able to tell him that his hope has already been realized at the AA School last year, when designs for a doorway and part of a staircase were prepared here as a construction study and used as an exer-cise by building craft students at the Hammer

as a construction study and used as an exer-cise by building craft students at the Hammer-smith School of Building. Other designs have also been selected by staff from Brixton School of Building, and these will be built during next session. This scheme for co-operation of building trades apprentices with architectural students is only in its infancy, but I hope it will be expanded in future years. MICHAEL PATTRICK. MICHAEL PATTRICK.

London.

# MOE Visit of the Medds to Denmark

Last week, Mr. and Mrs. David Medd, of the MOE Development Section, left to spend a month at the Danish Building Research Station as the guests of the Danish Government. Some time ago, the Danish Ministry of Education established a small development unit at the Danish Building Research Station to carry out research into the design of new schools. A small deputa-tion from this Development Group visited tion from this Development Group visited this country earlier this year, and the object of this return visit by the Medds is to give the Danish Development Unit a further insight into English experience in the field. (See technical section leader on page 203.)

## MOHLG

# Housing in June

The MOHLG reports that 30,973 permanent houses were completed in Great Britain during June. 26,598 were completed in the same month last year. 7,621 of the houses completed in June were the work of private builders. The number of houses built by private builders during the first six months of this year is 39,750-55.9 per cent. higher than the figure for the corre-sponding period last year sponding period last year.

# Repairs and Rents

The form of notice to be used when the Housing Repairs and Rents Act, 1954, comes into operation on August 30, is contained in regulations made by the Minister of Housing and Local Government which were published last week. [S.I. 1954, No. 1036. The Housing Repairs (Increase of Rent) Regulations, 1954. HMSO. Price 9d. S.I. 1954, No. 1035. The Rent Restrictions Regulations, 1954. HMSO. Price 4d.] Price 4d.]

Under this Act landlords may claim a repairs increase in rent where they can show that they have done repairs of not less than a certain value within a specified period, and that the house or flat is in good repair and reason-ably suitable for occupation. The regula-tions prescribe the form which the landlord must use to claim this increase, and the form of declarations he must make that the house is in good repair and that he has done the required work of repair. The landlord must give a general description of the work and state its value, so that the tenant can check the accuracy of the claim.

Landlords must give their tenants at least six weeks' notice of their intention to claim the repairs increase.

The form which a tenant must use in order The form which a tenant must use in order to pass on the appropriate proportion of any repairs increase to a sub-tenant is also given. New forms have also been prescribed which, after August 30, must be inserted in every rent book or similar document telling the tenant of his rights under the various Acts and the action he can take if he does not

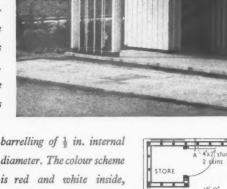


# HASTINGS Public Architects Must Not Do Private Work

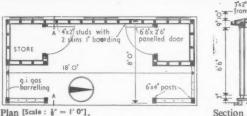
Hastings Council has forbidden its architects to prepare plans for private clients. A councillor says that "so many private plans were being prepared by council em-ployees that architects in private practice were becoming alarmed." SHELTER IN THE GARDEN OF ST. JOHN'S COLLEGE, CAMBRIDGE

This garden shelter designed by D. Wyn Roberts and Dr. Thomas Sharp is situated in the garden of St. John's on the west side of the River Cam. The photos are from (right) the north-east and from (below) the south-east. The roof is covered with copper sheets with standing seam joints and welted to a separate sheet lining the gutter. Walls are faced with vertical deal boarding and cover fillets. The paving is Southwater paviors inside and York stone outside. The plinth is of oak and, the vertical members are of gas





is red and white inside, doors and trellises on the west side are painted grey.



Church and the consist accum on var

copper 'roof

Section A A

agree the amount of rent that could properly be charged or if he considers the premises are not in good repair or reasonably suitable for occupation.

New forms have been prescribed also for claiming increases of rent under the existing Acts; for example, when the rates go up.

## MOW

# Queen Victoria's Apartments on View

The Minister of Works, Sir David Eccles, said in a statement in the House of Commons recently that the rooms at Osborne House, Isle of Wight, which had been in personal occupation of Queen Victoria and which had been maintained exactly as they were and never shown to visitors, will be open to the public next year. "This year," said Sir David, "marks the Jubilee of the opening of the house and Her Majesty the Queen has commanded that these rooms should now be open to the

these rooms should now be open to the public. Her Majesty has also offered on permanent loan the furnishings and works of art which are lodged in Osborne House or in the Swiss Cottage and Museum. These objects are to remain permanently at Osborne, and I shall have the duty and charge of maintaining and administering the collection in the interact of the ministerior collection in the interests of the visiting

public and of the patients of the King Edward VII Convalescent Home."

# Parks' Regulations Relaxed

A new loosening of government regulations will doubtless bring pleasure to many people. Sir David Eccles has revised the regulations governing behaviour in St. James's and the Green Parks. For instance, visitors to these parks will no longer be forbidden to push bath chairs more than three abreast; and there will no longer be anything to ston them from having "any

three abreast; and there will no longer be anything to stop them from having "any dog" following "any vehicle in or on which they may happen to be." Sir David, whose aim was "to reduce the number of prohibitions and to make the regulations as clear and simple as possible," is now turning his attention to the other Royal Parks. In the meantime presume Royal Parks. In the meantime, presum-ably, bath chair attendants will have to drop back to treble file when crossing from Green Park to Hyde Park.

## COID

## Course on Design

The third of a series of residential courses on "Design in the small home" will be held at Burton Manor, Cheshire, from Sep-tember 6-9. Arrangéd in conjunctión with

the COID, the course will deal with the making of furniture and its most effective use in the home. Lectures will be given by Miss Charlotte Mayer, who will talk on the designing of furniture, the historical development of English furniture, both hand and machine made, the background of fur-niture and the "question of taste". Two showings will be given of film strips made by the COID and the Furniture Develop-ment Council. Applications should be made to the Warden, Burton Manor, Burton-in-Wirral, Cheshire. the COID, the course will deal with the Wirral, Cheshire.



Exhibition of Students' Work. At the AA, 34, Bedford Square, W.C.1. Monday to Friday: 10 a.m. to 6 p.m. Saturday: 10 a.m. to 2 p.m. UNTIL AUGUST 14

New Life for Older Houses. Conversion of early nineteenth century houses to modern flats by the MOHLG. At Holles Street, off Oxford Street, W.1. UNTIL END OF AUGUST

LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sundays. 10 a.m. until dusk. UNTIL SEPTEMBER Current American Practice in Heating, Ventilating and Air Conditioning. Paper to be presented by John K. M. Pryke at a special meeting of the IHVE. At the Lecture Hall of the IME, 1, Birdcage Walk, S.W.I. 6 p.m. SEPTEMBER 14

# FLATS

in PIMLICO, LONDON, S.W.I, for the City of Westminster designed by POWELL and MOYA; assistant, S. P. SKINNER consulting engineers, structural, SCOTT and WILSON; district heating, KENNEDY and DONKIN internal heating, J. ROGER PRESTON and PARTNERS quantity surveyors; E. C. HARRIS and PARTNERS

DGE

the ctive iven c on rical fur-Two ade lopade

Churchill Gardens, Pimlico, is being built in four sections, as can be seen from the site plan on page 191, and the 10-storey blocks (17 and 20) illustrated here form part of the second section. Section one, which consisted of 495 flats and maisonettes in 9-, 7- and 4-storey blocks, together with the district heating accumulator, pumphouse and workshops, were completed in 1952, and were illustrated in the JOURNAL on various dates between 1950 and 1953.

The south and west facades of blocks 17 and 20.





Above, the west facade of block 20 looking towards the river. On this side of the flats are the access balconies.

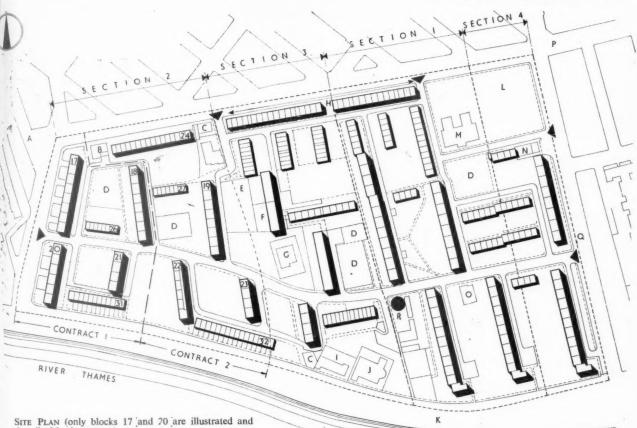
FLATS in PIMLICO, LONDON designed by POWELL and MOYA SITE.—Section two of the estate is bounded by Grosvenor Road and the River Thames on the south and Westmoreland Terrace on the west. Beyond this road to the west lies the iron railway bridge which carries the main lines south from Victoria Station. Because of the noise of railway traffic the two 10-storey blocks (blocks 17 and 20

on site plan) are reversed in orientation from the other tall blocks on the estate, having no habitable rooms on the west side. These two blocks act so a sound baffle to the remainder of the scheme. Section two has been divided into two contracts, the first, which started at the end of 1951, is for 302 flats and houses and the second, which began in SITE descri Key: I flats, 7 morela hall sit houses, school, street,

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SITE PLAN (only blocks 17 and 20 are illustrated and described in these pages)

Key: 17-20, 22, 10-storey flats, 21, 23, 11-storey flats, 24, 7-storey flats, 26, 27, 3-storey maisonettes, 31, 32, 3-storey houses, a Westmoreland Terrace, b, pub site, c, existing pub, d, playground, e, Estate hall site, f, nursery school, g, Primary school site, h, shops, i, existing houses, j, church, k, Grosvenor Road, I, new school site, m, existing school, n, proposed service station, o, temporary estate hall, p, Lupus street, q, Claverton street, r, district heating accumulator.

March, 1954, is for 284 flats, maisonettes and houses. The last block of flats in the first contract should be completed early in 1955. It is hoped that work on section three will begin next year, when it will be possible to see the estate as a whole. At present the existing houses on the land to be occupied by section three separate the first two sections into isolated schemes.

PLAN.—The detailed design of the blocks in section two differs in certain respects from those in section one. The main reason for changes has been the clients' requirement that the proportion of smaller flats, of 3 rooms and less, should be considerably increased, to meet their housing needs. Access from lifts and staircases to only two flats per floor, as in section one blocks, is uneconomical for smaller flats and has been replaced by balcony access. The blocks, however, are planned so that no living rooms or bedrooms are adjacent to the access balconies. The to-storey blocks are not appreciably taller than the 9-storey blocks in section one, due to the recent relaxation by the LCC of the height requirements for rooms in Below, looking north-east from the corner of Westmoreland Terrace and Grosvenor Road. Block 20 is in the foreground.



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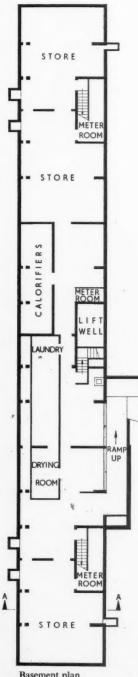
# FLATS

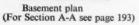
in PIMLICO, LONDON, s.w.1 designed by POWELL and MOYA

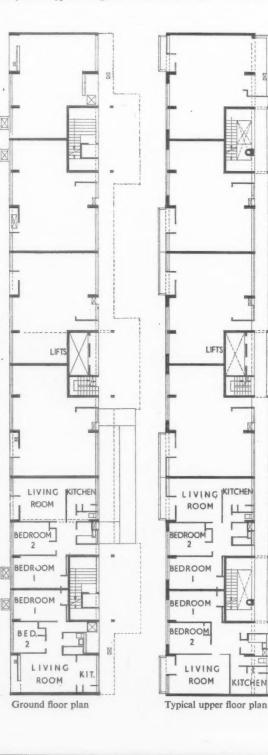
flats and because ground floors are no longer raised 3 ft. above ground level. Block 20 contains a total of 60 flats. There are two lifts, one to carry eight passengers and large enough for a pram and the other for four passengers which stops at ground, third, sixth and ninth floors only.

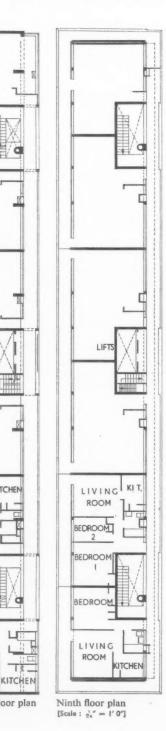
CONSTRUCTION.—The 9-storey blocks in section one are of monolithic reinforced concrete, including the external walls, which are faced with a veneer of brick supported on exposed r.c. ledges. The balcony access type of design in section two does not

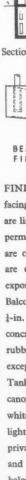
lend itself to this type of construction, since over large areas of the external walls it is necessary to have wide openings for windows and doors. The main external faces are therefore non-load bearing and the r.c. floor slabs are supported on r.c. end walls and party walls and on intermediate beams and columns. The r.c. structure is exposed on the outside and the brickwork is in the form of panel infilling. These external panels are of cavity construction, the outer leaf being of buff flint lime bricks and the inner leaf of 4-in. clinker blocks.







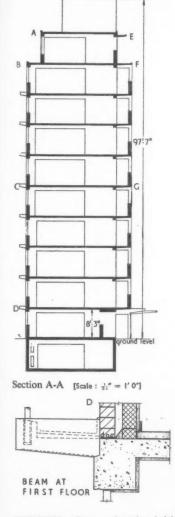




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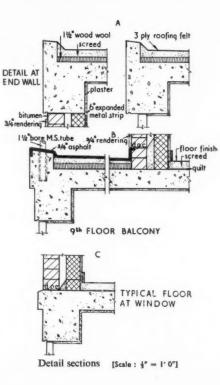
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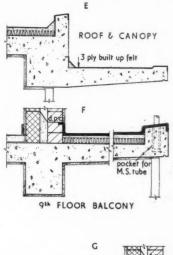
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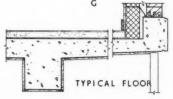


FINISHES .- Blue engineering bricks are used as facings behind access balconies. R.c. end walls are lined on their internal face with 13-in. woodwool permanent shuttering. Tank and lift motor rooms are of brickwork, rendered externally. Windows are of wood, except the opening lights on the exposed faces of the building, which are of metal. Balcony fronts are of galvanized steel framing with t-in. wired roughcast glass panels. Exposed concrete surfaces are painted with chlorinated rubber based enamel paint, grey-green in colour, except the beam faces, which are left untreated. Tank rooms are painted light grey and entrance canopy soffits bright red. Windows are painted white for fixed lights and black for metal opening lights. Balcony iron work is black and the backs of private balconies are painted alternately dark brown and dark Indian red and the panels of private balcony doors are bright yellow. On access balconies, front doors are crimson and refuse chutes and duct access panels are olive green. Internally, partitions are of 21-in. clinker blocks laid on felt strips and door frames are of wood. Floor screeds



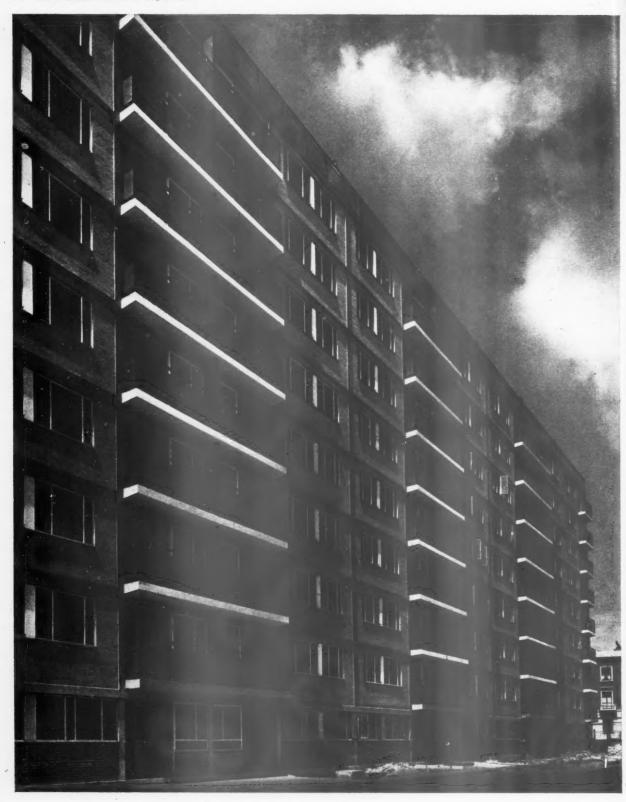






Below, looking south-east down Turpentine Lane towards one of the 10-storey blocks bordering Westmoreland Terrace.





Above, the east facade of Block 17. All living rooms, bedrooms and private balconies are on the east side of blocks 17 and 20.

FLATS in PIMLICO, LONDON by POWELL and MOYA are laid on glass silk quilting and are finished with thermoplastic tiles. Walls and ceilings are plastered and generally distempered white, light grey or pink.

SERVICES.—The central heating and central hot water system are from the district heating scheme.

The hot water is supplied by the secondary circulation from calorifiers in the basement. Pipes are run vertically in ducts or cupboards and horizontally in the thickness of the floor screed.

The general contractors are Gee, Walker and Slater, Ltd. For sub-contlactors, see page 210. The new shop, w warehow In the kitchene third flu block.

The shop s

The Architects' Journal for August 12, 1954 [195

# SHOP

in ST. GEORGE'S STREET, CANTERBURY, KENT designed by ROBERT PAINE and PARTNERS, partner-in-charge MICHAEL CRUX consulting engineers, structural, OVE ARUP and PARTNERS heating, E. V. KNOX, quantity surveyors, WILLIS and THOMPSON

The new premises for David Greig Ltd., in Canterbury, include a general provisions shop, with a small arcade on the east side, meat preparation room, two cold stores, warehouse and despatch room, enclosed yard and two garages, all at ground level. In the central block there are men's and women's staff rooms and lavatories, kitchenette and manager's office (on the first floor), and a flat (on the second and third floors). The heating plant and stores are in the basement under this tall block.

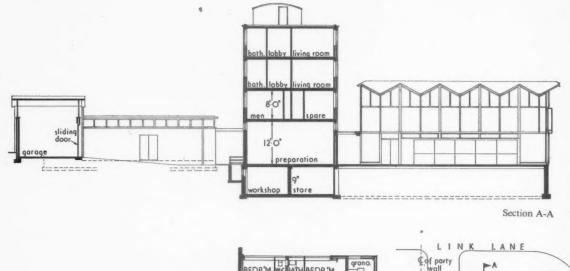


The shop seen from the south-east.

re ly

Aluminium emblem on the south facade.





# SHOP

IN CANTERBURY, KENT

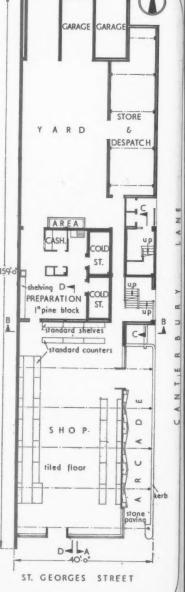
designed by ROBERT PAINE and PARTNERS

PLAN.—Each flat has a living room, kitchen, three bedrooms, bathroom and w.c. There are two staircases in the centre block, one connecting the staff entrance to the staff quarters and basement and the other giving independent access to the flats from Canterbury Lane. At the entrance to the flats small outside stores are provided for tenants dustbins. The preparation of plans, details, specifications and bills of quantities took one year and a further year was required for the construction. Everything in the scheme has been specially designed.

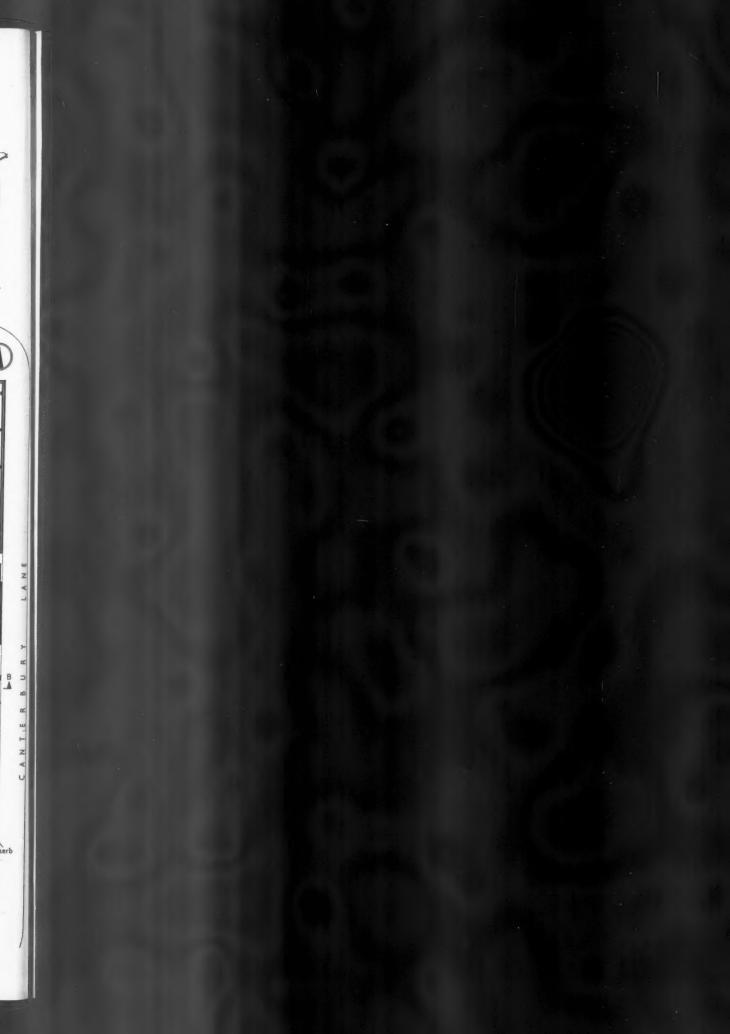
CONSTRUCTION.—The shop has a reinforced concrete roof 3-in. thick, which spans between the party wall on the west and the circular columns of the arcade. The walls of the shop, which consist mainly of glass and wood framing, are not loadbearing. The tall centre block has a r.c. frame and r.c. floors constructed without internal beams, so that all ceilings are flat. The walls are of brick, in places faced with travertine marble imported from Italy. The warehouse and garages have brick load bearing walls and r.c. roofs.

FINISHES.—Facing bricks are hand-made sand faced Dorking bricks. The columns of the arcade are faced with ceramic mosaic and capped with





Ground floor plan





# WORKING DETAIL

DOOR TO LIBRARY DISPLAY-ROOM: SCHOOL AT ECCLESFIELD COLLEY Basil Spence and Partners, architects, in collaboration with Hubert Bennett, Architect to the County of West Riding



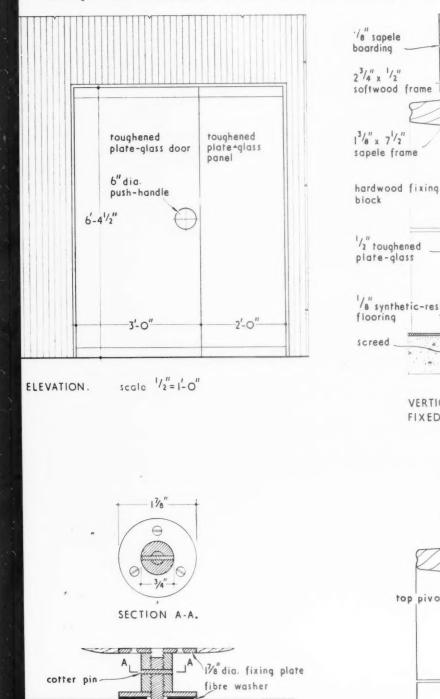
The door handle is in mahogany, french-polished, and is inible metal parts are finished in satin chrome.

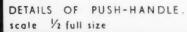
# Architects' Journal 12,8.54

# WORKING DETAIL

DOOR TO LIBRARY DISPLAY. ROOM: SCHOOL AT ECCLESFIELD COLLEY

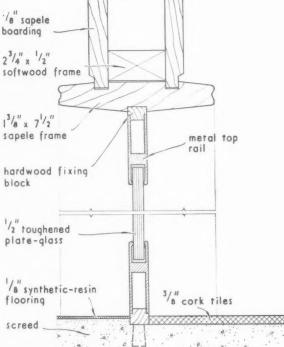
Basil Spence and Partners, architects, in collaboration with Hubert Bennett, Architect to the County of West Riding



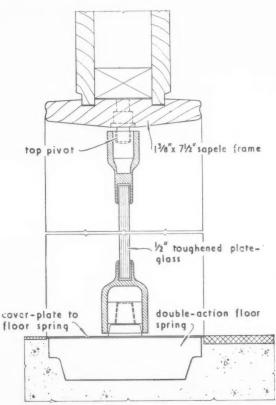


rubber bushes

grub screw



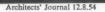




VERTICAL SECTION THROUGH DOOR. scale 1/4 full size W C

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# WORKING DETAIL

# COVERED WAYS AND CANOPIES: 12

CANOPY OVER MAIN ENTRANCE: OFFICES IN LONDON, S.E.I

John Lacey, architect; C. F. T. mothy, associate architect



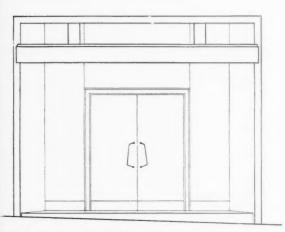
The canopy is suspended from the beam above by means of two reinforced-concrete columns. The upper face of the canopy is in the form of a tray which is asphalted and laid to a fall towards two copper r.w.p.'s which pass behind the facing to the main structure. The edge of the canopy and the surrounds to the entrance are polished Neros granite.

# WORKING DETAIL

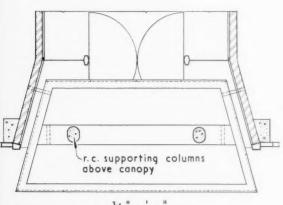
# COVERED WAYS AND CANOPIES: 12

CANOPY OVER MAIN ENTRANCE: OFFICES IN LONDON, S.E.I

John Lacey, architect; C. F. Timothy, associate architect



ELEVATION OF ENTRANCE.





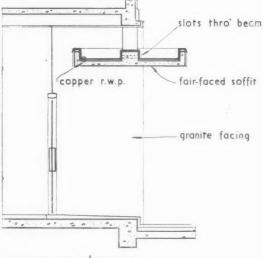
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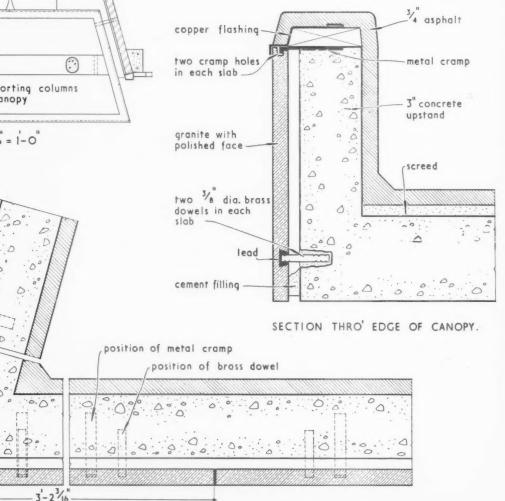
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PLAN OF CORNER OF CANOPY.

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scale 1/4 full size









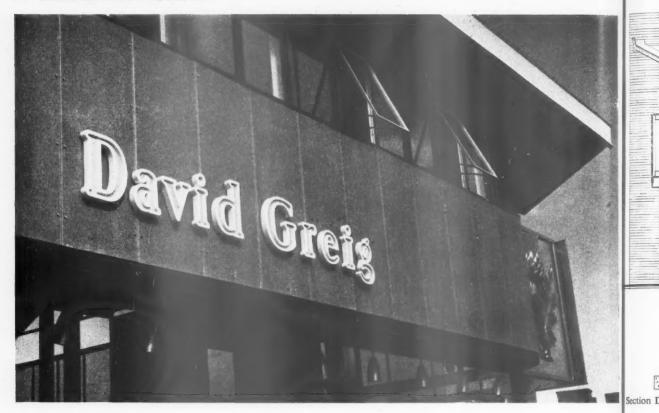


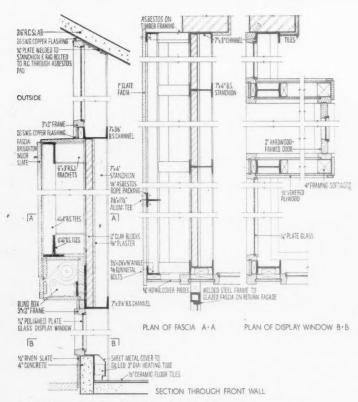
Section B-B

copper. The shop fascia on the south side is of Westmorland green slate and the separate pieces are the largest produced by the quarry. All roofs have a layer of foamed slag as heat insulation and a white Derbyshire spar dressing to reflect the rays of the sun. The waterproofing is asphalt, except over the garages, where a green mineral-surface felt is used. The parts of the shop roof which are Top, a general view from the north-east. The shop arcade is on the left, the tall block contains offices and flats, and the warehouse and stores are on the right. Above, a night view from the junction of St. George's Street and Canterbury Lane.

# SHOP

in CANTERBURY, KENT designed by ROBERT PAINE and PARTNERS





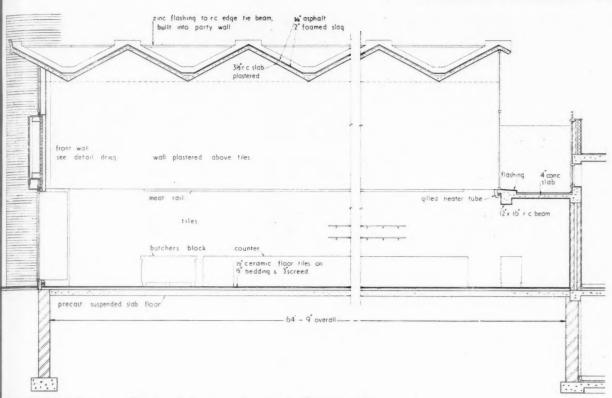
Detail plans and section through south wall of shop [Scale : 1" = 1' 0"]

visible fr Above, part of the south facade, showing the fascia of Westmorland green slate. Below, the south-east corner of the shop. The thistle emblem is in beaten floors of aluminium.

silk. Th tiles and fronts. ]

-





Section D-D (see plan on page 196) through shop on south-north axis [Scale : }" = 1' 0"]

fascia of

visible from below are finished with copper. The nuth-east floors of the flats are insulated with a layer of glass n beaten silk. The shop floor is of black and white vitreous tiles and glazed tiling is used on walls and counter fronts. Remaining wall surfaces are finished with

# SHOP

IN CANTERBURY, KENT designed by ROBERT PAINE and PARTNERS

Below, the interior of the shop, look-ing towards St. George's Street.

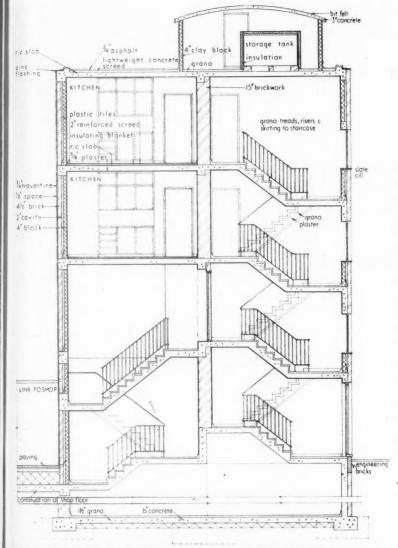




Above, the south and east facades of the tall centre block. The south facade is faced with travertime marble.

in CANTERBURY, KENT designed by ROBERT PAINE and PARTNERS

SHOP

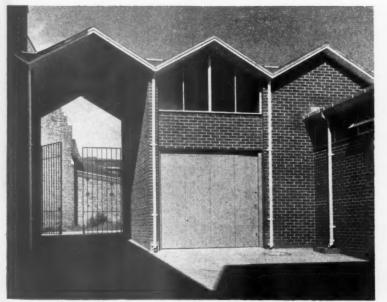


Section C-C (see plan on page 196) through centre block [Scale : i'' = 1' 0'']

matt paint. Provision shelves and counters are of Sicilian marble. Other counter and wall fittings are also specially designed for the shop and are in polished Lagos mahogany with brass fittings. There are specially designed movable metal and glass display units and two refrigerator-display cases. The greater part of the building is decorated with plastic emulsion paints and distempers in colour schemes prepared by the architects. The large thistle emblem, designed by W. C. Day at the south-east corner of the shop, is made in beaten aluminium. The name-lettering, based on that always used by the clients, is in lead-coated steel and is stove enamelled.

SERVICES.—Central heating is provided in the shop, offices and flats, served by a gas-fired boiler which is fully automatic and thermostatically controlled. Radiators are installed in offices and

Below left, the garages and service entrance seen from the yard. Below, another view of the east facade.



l centre avertine





Above, the shop interior seen from the main entrance in St. George's Street. Right, the provision counters and the north wall of the shop. Below, the living room of one of the flats in the centre block.



# SHOP

in CANTERBURY, KENT designed by ROBERT PAINE and PARTNERS



flats, but the shop is heated by pipes embedded in the floor. Hot water is provided by independent gas and electric installation. The lighting of the shop is mostly indirect from wall fittings shining on to the splayed ceiling. Direct-lighting is used at the back of the shop over the provision counters.

The general contractors were G. H. Denne & Sons Ltd. For sub-contractors see page 210.

The Architects' Journal for August 12, 1954 [203

# TECHNICAL SECTION

The news that the Danish Ministry of Education is seriously interested in the work of our MOE development group (see page 188) will come as a pleasing shock to those of us who have grown to assume that ideas in building must always flow from the Danes to us. It is probable that the chief lesson which the Danes have to learn from us relates not so much to design as to administration. For what is really unique about the English MOE development unit is not the work itself (excellent as this is) but the acceptance by the Ministry of responsibility for development. The indications are that the Danes have not yet seen this point, for the Danish Ministry of Education has not *itself* undertaken development work, but has merely financed a group which is to study the subject under the aegis of the Danish Building Research Station. There is, of course, all the difference in the world (as students in schools of architecture discover) between studying a subject and doing it; and for this reason the chief service that the Medds can do for the Danes will be to make them realise that the English success in school design was only possible because the English MOE agreed to engage itself in development.

This week's special article

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

# **19 CONSTRUCTION : DETAILS** TECHNICAL STUDY mayfield school: teaching block roof construction

In the Technical Section of July 1, 1954 we initiated the new series of Technical Studies with a discussion of the floors and walls of Mayfield School, Putney (Architects, Powell and Moya, Engineers, Ove Arup We describe this week the built-up timber trusses and Partners). used in the teaching blocks. Readers are reminded that a general description of this school (which is still in mid contract) was given in the JOURNAL for April 29.

One of the more pervasive determinants of architectural form is the availability of material. This has always been recognised in the larger scale of historical change, but it also occurs in much shorter phases-particularly since the War. The system of roofing here described represents the fruit of a situation | Even so the method evolved in timber has

which no longer exists. At the drawing board stage steel was tightly rationed and thus timber was chosen, but now, when the actual construction is going on, steel is freely available, and might, in the opinion of the architects and engineers, be the preferable material.

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proved economical, and provides a valuable footnote to present timber technology.

#### EVOLUTION OF THE ROOF SYSTEM

On the ground and first floors of the three teaching room blocks, the centre corridor runs, in general, the full length, except for the end bay. To provide some direct light and ventilation to the corridor and to mitigate the length visually, one 24 ft. bay in the centre is left open to the external wall as a coathanging space. But on the top floor the possibility of top light made this provision unnecessary, and enabled some of the corridor space to be given to teaching space. For example, the main school library occupies the whole width of one of the top floors.

Hence clerestories were appropriate, except over the end bays where the windows can occur on adjacent external walls. Various "shapes" of roof were explored on the drawing board until the final idea emerged, which could be described as a wholly flat roof with the portions over the classrooms "hinged down" from the outer walls to reveal the clerestory spine along the centre-this having a flat roof level with the roofs over the end bays. (See section on p. 206). This arrangement gave a sloping ceiling over the teaching rooms and implied a series of beams spanning between cross walls, the positions of which were determined in the following way : First and obviously, the weight of the decking had to be low, both to economise in roof timbering and to avoid overloading the cross walls. Wood-wool with screed and three-layer felt proved to be the cheaper of several alternatives, and with the ceiling lining gave an overall U value of 0.14, easing the heating load considerably.

It was desired to use the same height and arrangement of corridor partition, with upper portion glazed, as on the other floors-mainly to provide some borrowed light to the darker side of the teaching rooms. This added complications to the problem of supporting the clerestory, for it meant that the innermost truss could not be directly under the clerestory glazing-otherwise the logical place for it. It had to be positioned to one side, the rafters cantilevering beyond and meeting a series of timbers which connect the bottom boom of the truss to the sill of the clerestory window. In order to spread the load, this innermost truss and the one adjacent are closer together and are diagonally braced to act as one. For this to be effective the bracing has to be as tight as possible.

Since the corridor partitions are of standard height, their tops are level with the external window heads and this relationship, together with the depth of the truss, gives the slope. The whole thing was worked out so that the truss padstones occur at bed joints in the brickwork, to avoid cutting.

The edge of the roof is finished with a cedar fascia, and it was originally intended to fix this to the outermost truss direct. But the trusses do not present a regular number of members in the same plane, and firring out to provide them would have been fiddling and laborious, so that the truss was located further in and framing for the fascia was braced to it.



Trusses propped in position against in situ concrete beam, ready for end cleats to be bolted through beam.



Junction between flat and sloping roofs. Honeycomb brickwork will be used for beam filling on top of the cross walls, to hold down m.s. cleats on the ends of trusses, and to allow ventilation between roof spaces.

Such are the main considerations from which the roof arrangement was derived. Below we discuss some aspects—both theoretical and practical—in greater detail.

## THE MAIN TRUSSES

These are made from Canadian fir (Grade I according to the BSCP 112) and there are two main types: for 24 ft. span, with double diagonal bracing; for 12 ft. span, with single diagonal bracing.

The permissible stress in bending is 1,000 p.s.i., but in fact this value is probably not reached under load, for it is the strength of the joints which limits the capabilities of the truss. The critical value is the bearing stress of the timber (300 p.s.i.) and this means a large number of large diameter bolts in thick timber members—all to provide sufficient bearing area. The bolt diameter dictates in turn the size of timbers, for the Code of Practice lays down a minimum width of  $4 \times$  dia. with single line bolting (the corresponding end distance is 7 dia. in tension, and 4 to 5 dia. in compression—this is what causes the braces to project below the truss booms).

The size of member given by requirements of bearing area and edge distance may be more

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# Swimming Pool at Roydon Hall

In the lovely grounds at Roydon Hall, Norfolk, a swimming pool has been constructed for John Alley, Esq., J.P. The pool is 34 ft. long and 20 ft. wide, one end being 3 ft. 6 ins. deep increasing in the middle to 8 ft. and decreasing at the other end to 6 ft.

'PUDLO' Brand Waterproofer was specified to render the walls and floor waterproof, the bath having been built of brickwork with an ordinary non-waterproofed concrete floor 15 ins. thick composed of 4. 2. I.

The Waterproofing was effected by means of an internal lining of waterproofed cement and sand composed as follows :— 2 parts of coarse washed sand, I part of Portland cement, 5 lbs. 'PUDLO' Brand Powder, to each 100 lbs. of cement.

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Architects :

Howard, Souster & Fairbairn

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Above right ing joists) bracing on gether.

> Right : G roof finish reinforced

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VIGERS BROS

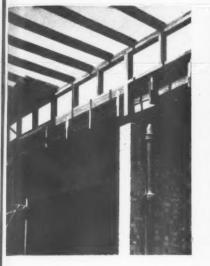
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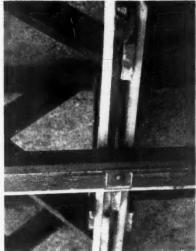
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The Architects' Journal for August 12, 1954

Above : partially completed clerestory roof. The hardwood windows are made in 12 fl. lengths and support the flat woodwool roof over. See section on p. 206

Above right: Fixing of binder (which carries the ceiling joists) to bottom boom of truss. Note the diagonal bracing on the left which links two adjacent trusses together.

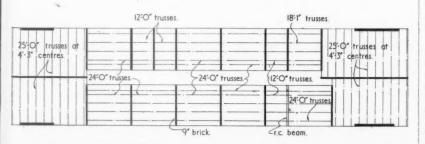
Right: Gutter outlet against clerestory window. The roof finish is three layer felt laid in hot bitumen on a reinforced screed. Top-finish granite chippings.

than that required by principal forces. It was this kind of problem which led to the development of timber connectors, the use of which improves joint efficiency and enables members to be sized more appropriately to the principal forces. But the use of split ring connectors (the suitable type in this case) would have increased the labour and material costs to a point not compensated by economy of timber. The use of connectors demands more exacting and accurate work and the employment of a special tool for boring and circular groove cutting on all meeting faces to accommodate the split ring. The dead and live load on each 24 ft, truss amounts to about 3,500 lb. and for figures higher than this the use of connectors would probably produce an overall saving.

The fact that truss members are not stressed up to the permissible limit means that there would have been no structural advantage in using hardwood.

#### MAKING AND ASSEMBLY

All the components — boom members and braces—were cut to size and shape and drilled off-site, in the contractor's workshop; assembly taking place on jigged benches on the top floors of each block. The jig gave a  $\frac{4}{5}$  in. camber on a 24 ft. truss. By assembling on site, hoisting problems there or at the workshop were avoided, and less lorry space was required to transport the parts than would have been necessary for whole trusses. In the workshop one man can make all the parts for about three trusses in a day, whereas on



Plan showing layout of trusses on teaching room block. The overall width of the block is 51 ft. 7 in., the centre corridor is 8 ft. The trusses on each side of the corridor are located closer together to carry the weight of the clerestory roof over the corridor.

## TECHNICAL SECTION

1205

the site assembly takes about one man per day per truss (excluding labourers' time). Although the trusses are long, hoisting and fixing into position has not proved unduly cumbersome. Four men (on the average) manhandle the truss up from the bench, lift one end on to a trestle alongside the wall, then hoist up the other with a rope from the top. From there it is lifted up, two men at each end, on to the bearing pads. Time taken is about  $\frac{1}{2}$  hour, and the truss weighs about 290 lb. Before assembly of the trusses, the parts are given a brush-applied treatment of preservative, and this is done on site.

### **ROOF FINISH**

This consists of wood-wool slabs, 6 ft.  $\times$  2 ft.  $\times$  2 in. (heavy duty) fixed in staggered pattern, each one resting on three joists, with three 4 in. nails in each rafter. On this goes a  $\frac{1}{2}$  in. cement and sand screed with chicken wire reinforcement, which virtually sets the covering into a monolithic slab. The top finish is three layer bituminous felt laid in a hot bitumen, with a topping of grey granite chippings.

#### CEILING

The joists run in the same direction as the trusses, their ends being notched over composite binders which are fixed transversely to the trusses at approximately 5 ft. 9 in. centres. This arrangement was mainly to avoid the old problem of fixing joists up into other timbers and to keep them clear of the truss braces which, to comply with end distance limits, project below the boom.

It was intended at the design stage to have a fibre board ceiling, and as a refinement the binders, where board joints would occur, were made to line up with window mullions. The choice of fibre board was indicated by the need for economy and for flexibility on a roof structure where there was likely to be a good deal of moisture movement. Later on, however, when it became clear that the school could be built well within its budget, the finish was changed to vermiculite plaster on expanded metal lathing, which is claimed to be flexible (in the sense needed here) and afforded a greater protection against fire, although fibre board did comply with the official requirements for fire.

#### FASCIA

To avoid staining from corrosion, the cedar boards are secret-nailed with Muntz metal nails. For fire protection there is a flat asbestos sheet-cladding behind the cedar boarding. With so large a roof span a problem arose of dealing with differential movement between the fascia, which is fixed to the roof structure, and the windows, which are fixed to the walls and floor. The solution was to leave a § in. gap between the window head and the bottom member of the fascia framing, with 1 in. coach-screws at 18 in. spacing screwed down into the head through loose fit holes in the member above it. These provide lateral restraint, and the § in. gap is masked by overlap of the fascia. The same detail occurs over the corridor partitions.

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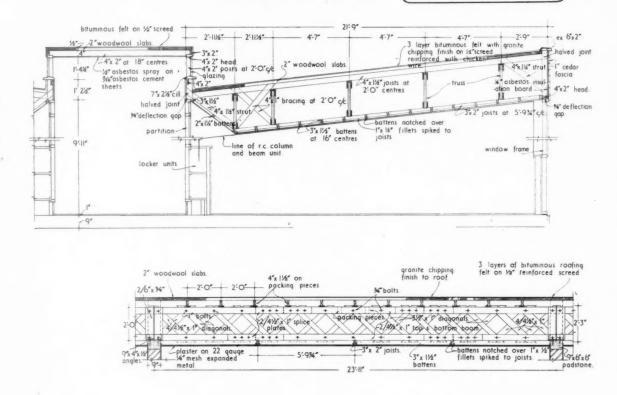
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The Architects' Journal for August 12, 1954

# TECHNICAL SECTION



Top: Half cross section of roof. The ceiling of the teaching room slopes up to the top of the glazed corridor partition, in order to get some borrowed light into the teaching room. The clerestory roof weight is taken by the diagonally braced innermost trusses.

Above : Elevation of 24-ft. truss, bearing on cross walls.

Right : Elevation of 12-ft. span truss.

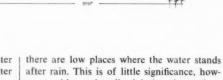
### CLERESTORY AND GUTTER

The 8 ft. wide roof of this is supported by the clerestory windows themselves, the weight being taken by the 4 in.  $\times$  2 in. mullions at 2 ft. centres. Calculations indicated an 18 in. spacing for the roof joists, so the load was spread by a 3 in.  $\times$  2 in. plate over the window heads.

A fairly high upstand is formed under the window sills to provide a gutter without fall

Extreme right: Detail of bearing on r. c. beam which cantilevers from external wall at end of block. The fascia is fixed to vertical wood fillets cast into the concrete beam. The upstand at the edge of the roof is finished with aluminium sheet dressed over to form a drip.

Right: Section through in situ r. c. beam where cross wall does not occur. Holes for the bearing bolts are cast in the concrete. Rafters have been spaced to avoid, so far as possible, the projecting ends of braces. at the bottom of the slope. Three rain-water outlets are formed in each length of gutter by small squares of wood-wool resting on cleats on adjacent rafters. The cast-iron outlet is of the lipped asphalt finish type. Flat roofs at the ends of teaching room blocks have no fall, the aluminium clad upstand at the top of the fascia retaining the water which finds its way out through an outlet in the centre of the span. As always with dead flat roofs



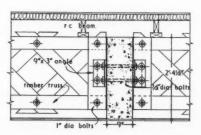
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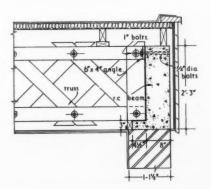
ever, with a virtually jointless impervious finish, protected from temperature movement by the granite chippings—which also speed up the rate of evaporation.

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In the next article on Mayfield school we shall discuss the steel assembly hall roof, which has been fabricated on the ground and hoisted all in one piece.





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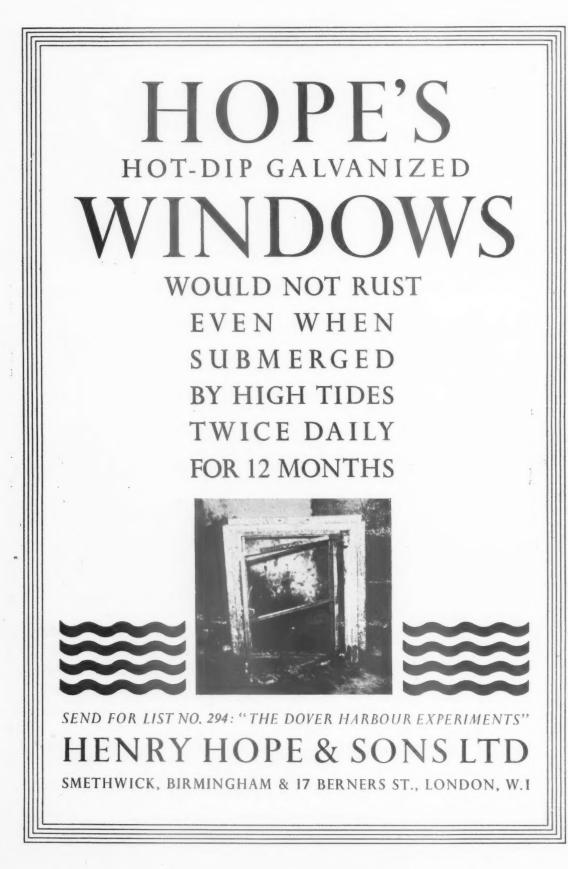
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The Architects' Journal for August 12, 1954

INFORMATION CENTRE

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

3.29 planning: regional and national SOVIET RUSSIA

City Planning in Soviet Russia. Maurice F. Parkins. (University of Chicago Press for whom Cambridge University Press act as Agents. 45s., 1953.)

A welcome but somewhat academicallywritten study on a subject on which little is known; 257 pages, including a full bibliography of 113 pages; indexed and illustrated with diagrams.

The author has used sources in Russian and those published elsewhere and has written from the background of American planning. The study opens with a short chapter on the background of Soviet planning, in which the author describes how land has always been a dominant factor in the thinking of the Russian people. In most of the Soviet Union, agriculture is limited by severe climate, too cold for crops in the North and too dry in the South-east.

"Most of the people, therefore, live in what is known as the Fertile Triangle which stretches from Leningrad and Odessa east-ward to the Kuznetsk Basin. Within this ward to the Kuznetsk Basin. Within triangle are vast stretches of rich soils. The physical, economic and social forces that influence the development and growth of old Russian cities are reflected in the present Soviet city organism. Most Russian cities, as late as the first Five-Year-Plan, resembled villages not only in their physical appearance but also in their socio-economic structure." The author goes on to describe how the aim of Marx and Engels was to distribute heavy production over the entire distribute heavy production over the entire country according to a single general plan. He quotes a Russian writer, "We are moving towards the liquidation of the dif-ferences between the city and the village not on the basis of liquidating the cities, but on the basis of changing their appear but on the basis of changing their appear-ance and of socialist re-building of the vil-lage and raising it to a level of the highest culture of the city."

The main part of the text tells a story of the development of Soviet planning in the initial stage 1922-31, the second or transi-tional stage 1931-1944, and the third or reconstruction stage 1944-50.

He concludes with an interesting addendum on current developments including the new type of city, *agro-grod* or agricultural city which will result from the newly intensified programme of amalgamating all Soviet collective farms into large kolkhozy co-operative economic enterprise). In Uzbekistan alone in 1950, 500 agricultural "cities" containing 300,000 new houses were scheduled for construction within the next few years.

4.79 planning: urban and rural

## A UNO SURVEY

Urban Land Problems and Policies. Charles Abrams and Others. (Housing and Town and Country Planning (Bulletin 7), United Nations, New York, 1953.)

A first-rate survey of problems which appear to be identical throughout the world; 182 pages with bibliography and index, illustrated with a few photographs.

A further issue of the Bulletin will deal with broad problems of regional land use planning and particularly with trends in the use of land for industry, agriculture the use of land for industry, agriculture and residence in development regions. The opening chapter of this bulletin is by Charles Abrams, a lawyer, who contributes a general study on Urban Land Problems and Policies. This is followed by a note on practice in individual countries by well-known writers in those countries. The study is rounded off by some notes on the Timing of a Housing Scheme, "Case Studies from Singapore, Liverpool, New York and Celje in Yugo-Stavia." Charles Abrams opens his essay with a brief historical review of the History of Urban Land Development. There is much that is guotable from this essay but two

that is quotable from this essay but two paragraphs stand out: "Despite vast differences in background, development, wealth and climate, there appears to be a remarkable similarity in the housing

sense of complacency one may have about the world housing conditions. A photo-graph of squatter shacks in the Far East, both in India and Pakistan, compared with a photograph of a reconstruction of Swiss lake dwellings occupied by Neolithic man suggests the Neolithic man had not worse and probably better living conditions than many millions of people today.

TECHNICAL SECTION

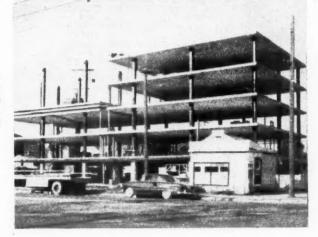
How intractable the current problems are is again demonstrated by an example from the USA. Even in that country the lowest income third of the population cannot be provided with good housing at current costs and wage levels, nor can a good part of the middle-income group.

#### 19.178 construction: details **REINFORCED CONCRETE FLOOR** SLABS

Six Storeys go up by lift-slab method. Engineering News Record [USA]. Nov. 12, 1953. P.25.)

Tallest lift slab structure provides 6 storey nurses' residence for general hospital at Winnipeg, Man. Slab design and column layout followed usual pattern as described in the JOURNAL previously, the basic slab being 50 ft. by 60 ft. and supported by nine columns on a 25 ft. by

Six-storey nurses' residence at Winnipeg built by the (O'Neill Ford) slab - lifting method. It will have a steel deck roof.



problems faced by most countries. This is not surprising, for industrialisation is an increasingly common trend. Furthermore, although standards differ the fundamental human requirements for shelter are the same. But specialisation seems to have deprived men of the skills and facilities for putting up self-help shelter as they did in the handicraft era, and the building industry as constituted at present has failed in all countries to meet the housing needs of vast sectors of the population."

How inefficient the house building indus-try has become compared with other indus-tries, even in a country like America, is demonstrated by the following quotation: demonstrated by the following quotation: "It has been estimated that if an American automobile costing \$1,714 were built in 1949 with 1910 tools, as houses in the United States are being built today its cost would be \$60,000; yet the American home building industry is one of the most advanced in the world." The selection of photographs destroy any

The selection of photographs destroy any

24 ft. grid. Five flat slabs were concreted on top of each other at ground level around columns erected to height of about 30 ft. Fourth and fifth floors were jacked up to the tops of the columns and the remaining floors to their correct position. The columns were then extended to the roof level and the fourth and fifth floor slabs jacked into position. The roof is provided by a steel deck roof.

22.69 sound: insulation-acoustics SOUND INSULATION IN HOUSES AND FLATS

Recent Research on Sound Insulation in Houses and Flats. P. H. Parkin and E. F. RIBA JOURNAL, Vol 61, No. 9, Stacey. R July, 1954.

down-to-earth reassessment of the A

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problems of sound insulation and standards. This article expresses a distinct and importlant policy change by the BRS in its approach to this subject.

The results of acoustic measurements and parallel social surveys in different groups of local authority housing having certain levels of insulation have led to the formation of new proposals for standards. A standard is suggested for semi-detached house walls, and others, in two grades for walls and floors of flats, both for airborne and impact sounds. These standards are in a new form compared to the existing "single figure" ones. It is thought necessary to specify not only the average level of insulation varies with frequency ("slope" of the insulation versus frequency (urve). When this method of specification is taken into account it appears that 11 inch cavity walls are not materially better insulators than 9 inch solid ones. This finding is confirmed by the analysis of social survey results. It is to be regretted that it has been found necessary to complicate the specification of standards in this way. A table is given showing the classification of various typical forms of construction into the new standard gradings. With the present single figure standards it is often difficult enough to decide if a novel construction, or a normal construction used in a particular context, is likely to pass. With the proposed methods it will be even more difficult, and it is doubtful whether many architects would make the attempt. We shall threefore be even more reliant on technical information issued by reliable authorities such as the BRS in coping with this subject.

# 22.70 sound: insulation-acoustics BROADCASTING STUDIOS

The Acoustical Design of a New Sound Broadcasting Studio for General Purposes. H. R. Humphreys. (BBC Quarterly, Vol. 9, No. 2, Summer 1954.)

This is a detailed article on the acoustical design of a general purpose broadcasting studio. The information on the performance of certain forms of acoustical treatment and the means employed to provide a variety of acoustical environments for broadcasting purposes should be of assistance to architects engaged on this specific problem.

# 24.172 lighting RADIO INTERFERENCE SUPPRESSION

Suppression of Radio Interference in Fluorescent Lighting Installations. Glenn Walters. (Illuminating Engineering, Vol. XLIX, No. 6, June, 1954.)

The increasing use of fluorescent lighting is certain to result in more frequent trouble from radio interference, although it is doubtful whether the incidence is likely to be so high that preventive measures need be regarded as esentials at the installation stage except in special cases such as radio factories or laboratories. The article explains how the interference is caused and gives useful hints on tests which can be made and on remedial measures which can be applied either to the lighting installation and/or to the radio installation.

# Announcements

Graham C. Law, A.R.I.B.A., now has a permanent address at Rosshill, Dalmeny, South Queensferry, West Lothian.

G. W. Alderson has commenced practice at 4 Pavilion Terrace, Scarborough, and will be pleased to receive trade catalogues.

Kenneth M. Raw, A.R.J.B.A., Chief Assistant Architect to the Anglesey County Council has been appointed Assistant Deputy Education Architect to the Staffordshire County Council.

Bruce & Proudfoot, Consulting Civil Engineers, have moved their offices from 63, Nicol Street, to Sailors' Walk, 445, High Street, Kirkcaldy (Tel.: Kirkcaldy 4284).

The Directors of Griffin & Tatlock Ltd., and of W. & J. George & Becker Ltd., have merged their two organizations for the production of laboratory furniture. They are now known as Griffin & George Ltd.

Arthur Wates has resigned his Directorship of Wates, Ltd., and has retired from active business. The character of the business remains unchanged, and will continue to be directed by the three sons of the late Edward Wates, who founded the business with his brother more than 50 years ago.

The Thermovent Heating Division of E. K. Cole Ltd. announce the appointment of J. D. Kendall as Technical Sales Representative for Yorkshire, the northern area of Nottinghamshire and Northern Lincolnshire, including Lincoln. He may be contacted c/o 73, Carr Manor Avenue, Leeds 7.

R. A. Beckett has been appointed Managing Director and Deputy Chairman of Beckett, Laycock & Watkinson Ltd. J. E. Beckett, who has combined the positions of Chairman and Managing Director, remains as Chairman of the Company.

# TECHNICAL SECTION

W. G. Dumville, M.C., T.D., has been appointed regional manager, north east, to British Insulated Callender's Cables Ltd.

Blundell, Spence & Co. Ltd., have acquired a controlling interest in Vulcan Products Ltd., of London and Slough. E. B. Calvert, chairman and managing director of Blundell, Spence & Co. Ltd., has been appointed chairman of Vulcan Products Ltd. and its subsidiary, Paint Removers Ltd., in succession to Leonard Wilmin who has retired. F. R. Eden will continue as a director and general manager of Vulcan Products Ltd.

The National Buildings Record has now moved to 31, Chester Terrace, Regent's Park, London, N.W.1 (Telephone: Welbeck 0619) from premises in Ons'ow Gardens, South Kensington, which it had occupied since 1945. The move has meant package and transference of a library of nearly half-amillion photographs and measured drawings and more than 250,000 glass negatives of historic buildings in England and Wales. Not one of the glass negatives was broken in transit. Among these negatives are the only existing visual records of many important buildings which have been demolished during the present century as a result of social changes and, latterly, war damage. The photographic library is arranged topographically, county by county, and is open, free of charge, to members of the public and to official bodies for reference and study purposes.

# Correction

On page 107 of the JOURNAL for July 22, 1954, Barlow, Leslie & Partners were incorrectly shown as heating consultants for the Primary School at Beckenham, Kent. They were electrical consultants for the school, and J. Roger Preston & Partners were the heating consultants.



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# 210] THE ARCHITECTS' JOURNAL for August 12, 1954

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Flats in Churchill Gardens, Pimlico, London, S.W.1. (Section 11 Contract 1). (Pages 189-194), for the City of Westminster (Director of Housing, E. J. Edwards, A.R.I.B.A., F.R.I.C.S.), Architect: Powell & Moya A/APIBA 194), for the City of Westminster (Director of Housing, E. J. Edwards, A.R.I.B.A., F.R.I.C.S.), Architects: Powell & Moya, A/A.R.I.B.A. Assistant, S. P. Skinner; Consulting Engineers (Structural) Scott & Wilson, (District Heating) Kennedy & Donkin, (Internal Heating) J. Roger Preston & Partners; Quantity Sur-veyors, E. C. Harris & Partners; Resident Engineer, R. C. Buchanan; Clerk of Works, E. A. Perry; General Contractors: glazing, Aygee Ltd.; concrete floors and roof for Blocks 26 and 31, Flooring Contracts Ltd.; plas-tering, MacDonald Bros. Ltd.; glazed tiling, Parkinson (Wall Tiling) Ltd.; heavy sus-pended boats scaffolding for Block 21, Scaffolding (Great Britain) Ltd.; electrical services, Troughton & Young Ltd.; lifts, The Express Lift Co. Ltd.; pressed steel tanks, Braithwaite & Co.; basement tanking, Wm. Briggs & Sons Ltd.; bricks, A. Turner & Son Ltd.; basement screens and partitions, T. W. Palmer & Co. Ltd.; felt roofing, Wm. Briggs & Sons Ltd.; aphalt paving, The Exocel Asphalte Co. Ltd.; netal windows, The Standard Metal Window Co.; pumps, W. H. Wilcox & Co. Ltd.; intomosery, A. G. Roberts Ltd.; kitchen fittings, Jayanbee W. H. Wilcox & Co. Ltd.; ironmongery, A. G. Roberts Ltd.; kitchen fittings, Jayanbee Joinery Ltd.; floor finishes, The Marley Tile Co. Ltd.; balcony division screens, Rippers Ltd.; metal windows, Blocks 21, 18, 26 and 31, The Crittall Manufacturing Co. Ltd.; window beloony creases for Block 26 G. A. window balcony screens for Block 26, G. A. Harvey & Co. Ltd.; terrazzo sills, W. B. Simp-son & Sons Ltd.; pavement lights, J. A. King & Co. Ltd.; portland stone cills, Glostone

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Shop at 23 St. George's Street, Canterbury, Kent, for David Greig Ltd. (Pages 195-202). Architects: Robert Paine & Partners (Robert Paine, Charles Wright, l'atrick Brown, Michael Crux); Co-ordinating architect, Michael Crux, Consulting engineers (struc-tured) Ove Arup & Partners (negine) F. V Michael Crux); Co-ordinating architect, Michael Crux. Consulting engineers (struc-tural), Ove Arup & Partners; (heating), E. V. Knox, M.I.H.V.E.; Quantity Surveyors, Willis & Thompson; Clerk of Works, L. Walter; General foremen (part I), W. E. Collins, (part II), R. Collingwood. General Contractors : C. H. Denne & Sons Ltd. Sub-contractors and suppiers: heating, G. N. Haden & Sons Ltd.; electrical installation, Electron Engineering Ltd.; lighting, Philips Electrical Ltd.; wall and floor tiling and mosaic work, Summers & Co.; plastic tiling, Neuchatel Asphalte Ltd.; windows, Henry Hope & Son Ltd.; refrigeration, D. P. Toomey & Co. Ltd.; loose counters and dis-play fittings, Harris and Sheldon Ltd.; Travertine marble, Anselm Odling & Sons Ltd.; display lettering, The Lettering Centre; sanitary fittings, Alfred Olby Ltd.; hardware, W. N. Froy & Sons Ltd., and Nicholls & Carke Ltd.; precast floor slabs, Concrete Ltd.; embem, Morris Singer Ltd.; stel frame for glazing, Scaffolding (Great Britain) Ltd. Ltd.



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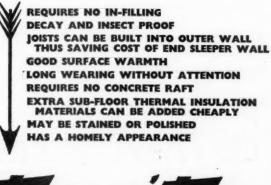
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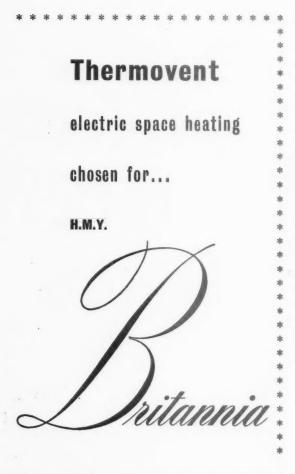
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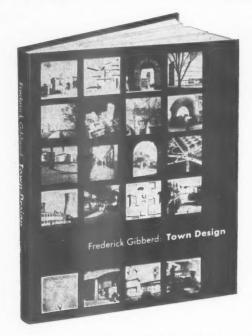
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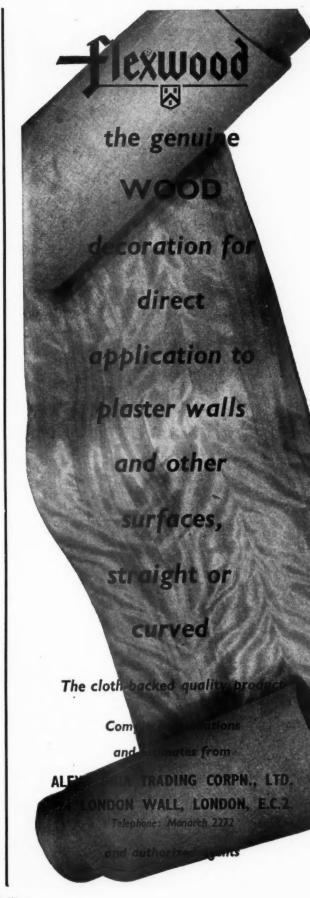
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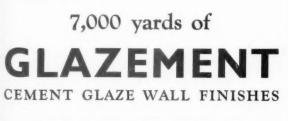
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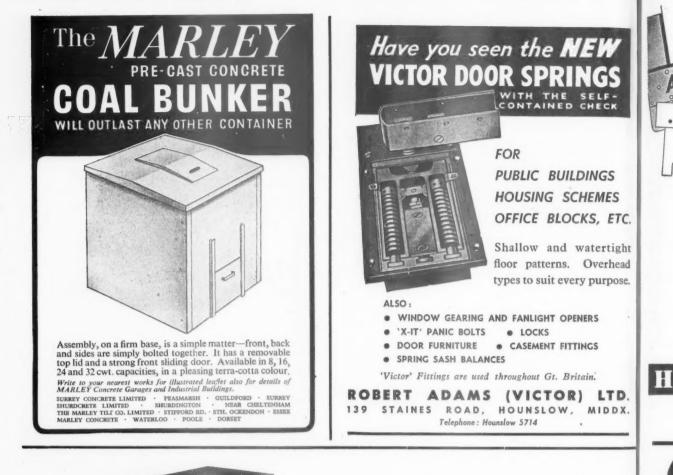
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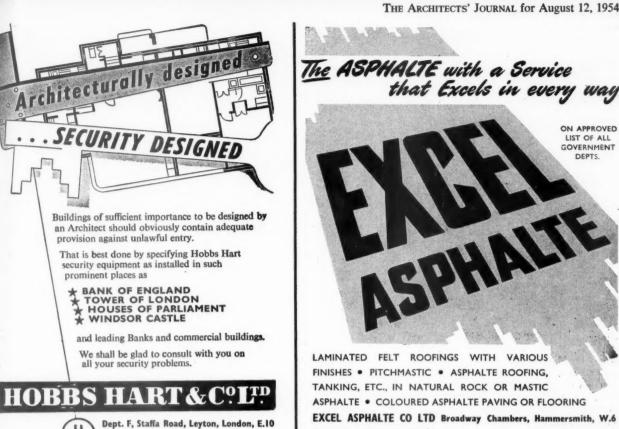
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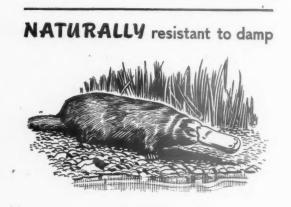
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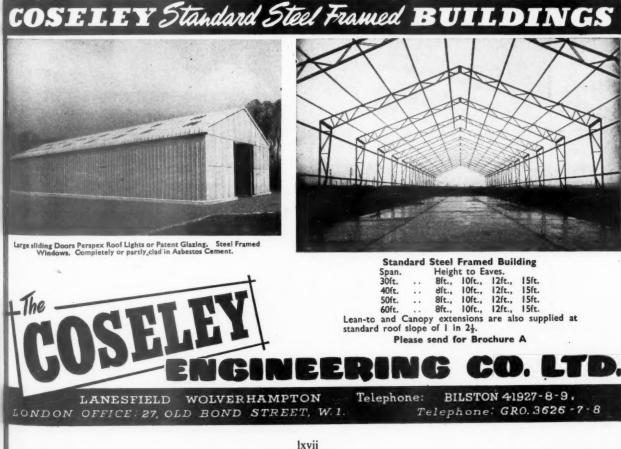
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saper. Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address care of "The given above.

**Public and Official Announcements** 

Public and Official Announcements 28. per inch: each additional line, 28. The engagement of persons answering these advertisements must be made through a Local office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man ged 18-64 inclusive or a woman aged 18-59 inclusive unless he or the employment is secopted from the provisions of the Notification of Vacancies Order, 1952. CITY OF ROCHESTER. ARCHITECTURAL ASSISTANT. Applications are invited for the above appoint-ment in the City Surveyor's Department at a stalary in accordance with Grade V-Va (Adminis-trative. Professional and Technical Division) of the National Scale of Salaries, viz., 2620-2710 per Annotal Scale of Salaries, viz., 2620-2710 per

Traifer, Professional and Technical Division of the National Scale of Salaries, viz., £620-£710 per anum.
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 PHLIP H. BARTLETT.
 Candhall, Rochester.
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Guildhall, Rochester. 2nd July, 1954. CITY OF PETERBOROUGH. CITY COF PETERBOROUGH. CITY ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the appeintment of a Senior Architectural Assistant, subject to National Conditions of Service and at a salary in accordance with A.P.T. Grade V (£520-6570). Applicants must be qualified architects, experi-enced in school building and capable of carrying out sketch designs, working and detail drawings and site control, with the minimum of super-vision. el cistern

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 APPOINTMENT OF:

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 The appointments will be subject to the provisions of the Local Government Superannation Acts, to the terms of the National Scheme of Conditions of Service and to one month's notice on either side. Housing accommodation will be successful applicants, if married.

 Applications, giving full details as to age, presont position and salary, qualifications and experience, together with the names and addresses of two referees, should be delivered to the Borough Engineer and Surveyor at the above address not later than Tuesday, 24th August, 1954.

 W MAURICE MELL, Town Clerk.

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Town Clerk. 3495 TAREHAM URBAN DISTRICT COUNCIL. APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT A.P.T. GRADE VA (2650-2710). Applicants must possess R.I.B.A. final examina-tion qualification, and be able to take charge, under supervision of Kngineer and Surveyor, of all Council's architectural work, especially Hous-ing Schemes and Contracts. Appointment subject to N.J.C. Conditions of Service to medical examination and provisions of Local Government Superannuation Acts. N.J.C. Car Allowance (8 h.p.) payable. Applications stating name and address, date of birth, full details of education and training, qualifications held, past and present posts and salary, previous experience, etc. together with names and addresses of two referees, must reach me by 16th August, 1954. B. W. BANDS.

names and addresses of two referees, must reach me by 16th August, 1954. B. W. RANDS, Clerk to the Council. "Merton", 5 Grove Road, <u>Fareham, Hants.</u> <u>CARDIGANSHIRE COUNTY COUNCIL.</u> Applications are invited for the post of Assistant Architect. Grade A.P.T. VI £695-£760, in the County Architect's Department, Aberayron, Appli-cants must be members of the R.I.B.A. and must disclose whether to their knowledge they are re-lated to any Member or Senior Officer of the Authority. Forms of application may be obtained from the County Architect, County Hall, Aberayron, and should be returned to the undersigned by not later than 12 noon on the 21st August. 1954. J. E. R. CARSON *Clerk of the Council.* Swyddfa'r Sir, Aberystwyth. <u>3493</u>

Swyddfa'r Sir, Aberystwyth.

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 FLINTSHIRE COUNTY COUNCIL.
 Applications are invited for the appointment of QUANTITY SUEVEYORS (2 vacancies) in the County Architect's Department; salary according to qualifications and experience up to Grade VII/VIII (£735 p.a. rising to £860 p.a.). Applicants should be Members of the Royal Institute of Chartered Surveyors (Quantities) and should be capable of preparing Bills of Quantities, estimates, measuring up and dealing with Contractors' accounts for large contracts, and should preferably have had good experience in the office of a Local Authority. Applications, on a form to be obtained from the undersigned, should be returned by 23rd August, 1954.

Clerk of the County Buildings, MOLD. 3498

County Buildings, MOLD. 3498 CORPORATION OF LONDON. The City Planning Office requires:— TEMPORARY PLANNING ASSISTANT (CIVIC DESIGN SECTION). "Jary £500, with contemporary and sensitive des., n ability for general draughting work and assistance in architectural control and prepara-tion if three-dimensional layouts. Preference will be given to members of P. I.B.A., or T.P.I. with some experience of development "recas. Applications, giving full deta. applications, giving full deta. applications, giving full deta. Specifications, giving full deta. Content that more than three rec., at testimonials to the City Planning Officer. 55/61; Moorgate, London, E.C.2. not later than 30th August, 1954. 3659 NORTHAMPTON.

City Planning United E.C.2., not later than 30th August, 2000. NORTHAMPTON. BOROUGH ARCHITECT'S DEPARTMENT. JUNIOR ARCHITECT'S DEPARTMENT. JUNIOR ARCHITECT'S DEPARTMENT. GEDUCATION) A.P.T. (2490-2535). Particulars of appointment and form of appli-cation to be returned by 27th August may be obtained from the Borough Architect's Depart-ment, Guildhall, Northampton. C. E. VIVIAN ROWE. Town Clerk. 3549

ARCHITECTS JOOKNAL IOF AUGUST 12, 1954 ARCHITECTS FOR NEW ZEALAND. Applications are invited from registered Archi-tects up to 45 years of age for positions in the Architectural Division of the Ministry of Works, New Zealand. Vacancies exist at Auckland, Hamilton, Wanganui, Wellington, Christehurch and Dunedin. The work of the Architectural Division covers the design and construction of buildings, including the preparation of sketch plans, working drawings and specifications for such buildings, hostels, flats and houses. Salaries on the Professional scale range from g(NZ)645 to 4(XZ),130, plus a General Wage Increase of £(NZ)62 &s. per annum. Commencing rate is at any point on the scale, according to experience since qualification and advancement within the scale depends on merit. The Architec-tral Division has more senior posts on estab-lishment, including District Architects at the six locations stated above at £(NZ)1.340 and £(NZ)648, New Zealand, should write for an application form to the Ministry of Works, New Zealand, should write for an application form to the Ministry of Works, New Zealand, should write for an application form to the Ministry of Works, New Zealand, should write for an application form to the Ministry of Works, New Zealand, should write for an applications of adplications in duplicate. accom-Mins by copies only of two recent testimonials to be lodged not later than 11th September, 1954. HUYTON-WITH-ROBY URBAN DISTRICT ZOUMENT

3545 HUYTON-WITH-ROBY URBAN DISTRICT COUNCIL ARCHITECT'S DEPARTMENT. Applications are invited for the position of QUANTITY SURVEYOR (Grade A.P.T. VI) at a commencing salary of 2715. Applicants should have a wide experience in the preparation of Bills of Quantities, and thorough knowledge of Contract procedure, settlement of Final Accounts, valuation for interim certificates, etc.

Final Accounts, valuation for interim certificates, etc. Housing accommodation if required, will be considered. Applications stating age, qualifications and experience, including the names of three referees should be posted to R. T. Chappelle, A.R.I.B.A., Architect, Council Offices. Derby Koad, Huyton, so as to reach him not later than Monday, August 30th, 1954. H. E. H. LAWTON.

H. E. H. LAWTON, Clerk of the Council.

3538 NEWCASTLE REGIONAL HOSPITAL BOARD. REGIONAL ARCHITECT'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANTS. Applications are invited for the following appointments on the staff of the Regional Architect, Philip H. Knighton, M.B.E., A.R.I.B.A.:-() TWO ARCHITECTURAL ASSISTANTS (PERMANENT). () THE Offices. Newcastle Offices. New ARCHITECTURAL ASSISTANT () ONE ARCHITECTURAL ASSISTANT () ONE ARCHITECTURAL ASSISTANT () ONE ARCHITECTURAL ASSISTANT () ONE ARCHITECTURAL ASSISTANT () TEMPORARY). This post is tenable in the Bcard's Area Office in Carlisle and is for a period of approximately months. B A and some practical experience

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This post is tenable in the Beard's Area Onlee in Carliste and is for a period of approximately 21 months. Inter R. B.A. and some practical experience essential. Commencing salary within grade £440 to £625, according to practical experience since passing Intermediate Examination but not exceeding £525 per annum. The posts offer opportunity for gaining all-round general as well as hospital experience and for doing good-class work in an expanding department. Evening study facilities for the R.I.B.A. Final available at King's College of Durham University in Newcastle. Whitley Circulars P.T.B. 19 and 20 prescribe salary scales and perice conditions. Applicants should state training, experience, whether married, present post and salary, war service (if any), date available and names of three referees of whom at least two should be architects. Applications to the Secretary by 21st August, 1974.

1954. "Dunira," Osborne Road, Newcastle, 2.

3551

 Newcastle, 2.
 3551

 NATIONAL COAL BOARD-NORTH EASTERN DIVISION.
 3551

 Applications are invited for the following appointments to the staff of the Divisional Chief Architect at Denaby Main. Near Doncaster :--ARCHITECTURAL ASSISTANTS GRADE I (£552×225-4650 p.a.).

 Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have had not less than three years practical experience and should be able to prepare Sketch Plans and Working Drawings and have a sound knowledge of Building Construction.

 The work in this office consists chiefly of Pit-head Baths, Canteens, Medical Centres, Offices, Laboratories, etc.

 The point of entry in the above scale will depend on qualifications and experience.

 Application forms may be obtained from the Divisional Chief Architect, J. A. Dempster, F.R.I.B.A. P.O. Box No. 4, Denaby Main, Near Doncaster and should be returned not later than 28th August, 1954.

vision. In a suitable case, the Council will, if desired, provide housing accommodation. Applications, stating age, qualifications and ex-perience, and giving the names of two persons to whom reference may be made, must be delivered to the City Engineer, Town Hall, Peterborough, not later than 20th August, 1954. Canvassing will disqualify. Town Hall, PETERBOROUGH. July, 1954.

1490 ARCHITECT'S DEPARTMENT. Vacancies for ARCHITECTS. Grade III (up to 2892 10s.), and ARCHITECTURAL ASSISTANTS (up to 2739 10s.), in Schools and Housing Divisions.

Particulars and application forms from Architect (AR/EK/A/2), County Hall, S.E.1. (1058) 2205

estroyer.

3477

C. PETER CLARKE Town Clerk.

Town Hall. PETERBOROUGH. July. 1954. TURNINGE URBAN DISTRICT COUNCIL. ENGINEER & SURVEYOR'S DEPARTMENT. ARCHITECTURAL ASSISTANT. ARCHITECTURAL ASSISTANT. ARCHITECTURAL ASSISTANT. ARCHITECTURAL ASSISTANT. ADDications are invited for the appointment of Architectural Assistant on Grades IV and Y of the A.P.T. Division of the National Scales (£590 to 5570 per annum plus London Weighting, at present 250 for age 26 and over. ADDIcatists should have had a good architectural training and preference will be given to candi-dates with experience of Local Anthority Housing Schemes and holding is recognised professional qualification. The appointment will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Super-annation. Applications, stating age, marital state, present and previous appointments qualif-tations, and details of experience, together with the games and addresses of three persons to whom reference may be made, should be forwarded to Harold E. G. Stripp. Esg. A.M.I.C.E. F.R.I.C.S. Busineer, Surveyor and Architect, 263, High Street, Uxbridge, not later than Monday. 2374 August, 1964. Candidates are required to disclose in writ-ing whether, to their knowledge, they are related to any member or senior officer of the Council. JOHN POOLE. Clerk of the Council. 3400 LONDON COUNTY COUNCIL

CITY OF LIVERPOOL. ARCHITECTURAL AND HOUSING DEPARTMENT. Applications are invited for the following

Applications are invited for the following appointments:-KEDEVELOPMENT SECTION-(a) ASSISTANT ARCHITECT: Salary £695-£760 p.a. (A.P.T. VI). (b) Two TEMPORARY ARCHITECTURAL ASSISTANTS: Salary £650 p.a. ARCHITECT'S HOUSING SECTION-(c) ARCHITECTURAL ASSISTANT: Salary £580-£625 p.a. (A.P.T. IV). ARCHITECT'S GENERAL SECTION-(d) ASSISTANT STRUCTURAL ENGINEER: Salary £735-£810 p.a. (A.P.T. VII). (e) ASSISTANT STRUCTURAL ENGINEER: Salary £620-£670 (A.P.T. VI.). (e) ASSISTANT STRUCTURAL ENGINEER: Salary £620-£670 (A.P.T. V). Candidates for:-(a) Must be registered Architects, preferably Onalifed A R IB A and(or AM TP I cond choold

Castavir J Schwart B. Koll K. E.K. F. Stary 1220-1670 (A.P.T. V.).
 Candidates for:—

 (a) Must be registered Architects, preferably qualified A.R.I.B.A. and/or A.M.T.P.I. and should have some experience in the development of central areas.
 (b) Will be required to assist in development of central areas.
 (b) Will be required to assist in development of central areas.
 (c) Must have passed Intermediate standard will be considered for appointment at £50 per annum.
 (c) Must have passed Intermediate Examination of R.I.B.A. and should have some experience of nousing design and layout.
 (d) Considerable experience in the design of reinforced concrete and structural steelwork as applied to modern buildings is required. Candidates must also be Chartered Structural Engineers or passes equivalent qualifications.
 (e) Similar qualifications to post (d) required, less experience will be expected.
 Applieation forms, obtainable from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, must be returned to him not later than 28th August, 1954.
 The appointments are superannuable ad subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER, Town Clerk.

Municipal Buildings. August, 1954 (JA. 3643)

 Municipal Buildings.
 3017

 August, 1964 (JA. 3643)
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 BOROUGH ENGINEER AND SURVEYOR'S
 BOROUGH ENGINEER AND SURVEYOR'S

 August, 1964 (JA. 3643)
 And Surveyor (Mr. J. H. Molville

 August, AMIC. E. MILMAN. E. ...
 Molville

 (A ARCHITECTURAL ASSISTANT, A.P.T.
 Gades J/III, salary scale 4550 to 4525

 August, Surveyor (Mr. J. H. Molville
 Surveyor (Mr. J. H. Molville

 (A OLANTITY SURVEYING ASSISTANT,
 A.P.T.

 (A Fades III/IV, salary scale 4550 to 4525
 Surveyor (Mr. J. H. Molville

 (A Fades III/IV, salary scale 4550 to 4525
 Deget and the subject to the promotions of the Local Government Superannuation, and the saling Joint Council's Scheme of Conditions of Serve.

 The Corporation is unable to assist in obtaining housing accommodation.

 Action forms may be obtained from the obtained from the should be returned.

 August, 1944
 Born Clerk.

 The Orporation is unable to assist in obtaining from the obtained from the obtaine

# Council Offices. Harrow Weald Lodge, Harrow, Middlesex.

Harow, Middlesex. 3577 BOROUGH OF WILLESDEN. APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT. GENERAL DIVISION SALARY SCALE (MALES). Applications are invited for the above appoint-ment on the permanent staff of the Borough Eggineer and Surveyor's Department. Applicants must be Probationers of the R.I.B.A. or have attained a standard of education acceptable to the R.I.B.A. for registration as a Probationer. The salary payable is within the range of £170 at 16 to 2470 per annum at 30 years of age fixed on a basis of age. This is subject to the addition of London Weighting, which is £10 at age 15 increasing to 220 at age 21 and £30 at age 26 years. Full details and form of application can be obtained from the Borough Engineer and Sur-veyor Town Hall, Dyne Road, Kilburn, N.W.6, applications to be returned to the undersigned not lator than 9 a.m. on Monday. 16th August, 1954. **B. S. FORSTER.** 

R. S. FORSTER. Town Clerk.

# Town Hall, Dyne Road, Kilburn, N.W.6. 27th July, 1954.

 27th July, 1954.
 3515

 LONDON ELECTRICITY BOARD. ARCHITECTURAL DRAUGHTSMEN.

 Applications are invited for the above positions in the Construction Branch of the Chief Engineer's Department in Central London.

 Applications should be neat draughtsmen and pre-ferably have had several years' experience in an Architect's Office.

 The post is graded under Schedule "D " of the National Joint Board agreement as Grade 6-2458 to £595 7s. 0d. per annum, inclusive of London Allowance.

 Application forms obtainable from Personnel Officer, 45, New Broad Street, E.C.2. Please en-Close addressed envelope and quote ref. V/1785/A on envelope and all correspondence.

COUNTY COUNCIL OF NORTHUMBERLAND. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the posts of ASSISTANT ARCHITECT (two) A.P.T. Grade VI on the temporary staff of this Department. The posts will be for a period of three years with the possibility of consideration for appuintment to the permanent staff is suitable vacancies arise. The appointments will be subject to one month's notice on either side and will be in Service of the National Joint Conneil for Local Authorities Staffs. The successful candidate will be required to pass a medical examination. Applications is deal be registered Architects and avec had at least 2 years expreisnce in an Architect's Office, after being admitted to the users.

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(a) £595)

(£596).
Applicants must have had experience in an architectural capacity or in control of development and preparation of relevant reports.
(b) DRAUGHTISMAN, Misc. IV (£440-£520).
Candidates must be expert draughtsmen and colourists, preferably with municipal experience.
(c) DRAUGHTISMAN, Grade Misc. III (£336-£460).

Applicants must be capable draughtsmen and

Applicates and the colourists application from Clerk of the County Council, Caernarvon. Closing date 28th 33550 August

County Council, Caernarvon. Closing date 28di August. 3550 THE UNIVERSITY OF LIVERPOOL. Applications are invited for a LEVERHULME POST-GRADUATE FEILOWSHIP IN ARCHI-TECTURE or the DEPARTMENT OF CIVIC DESIGN. The Fellowship, value 4500, will be tenable for one year, but may be renewed for a second year at a value of 4550. Applications, stating age, whether National Service requirements have been fulfilled, pro-fessional experience and qualifications, and pro-posed field of research, together with copies or photographs of work, and the names of two referees, should be frecived not later than 1st September, 1954, by the undersigned, from whom further particulars may be obtained. STANLEY DUMBELL, Registrary

Registrar 3539

WARWICKSHIRE COUNTY COUNCIL. ARCHITECT'S DEPARTMENT. pplications are invited for the follow ointments :--

ARCHITEUTS Applications are invited for the ionomic appointments:-(1) ASSISTANT QUANTITY SURVEYOR (5580-670). Applicants should preferably have passed the Intermediate examination of the Royal Institution of Chartered Surveyors but experience will be taken into account when making the appoint-ments. CLERKS OF WORKS, FOR

ments. (2) BUILDING CLERKS OF WORKS, FOR SOLIHULL AND NUNEATON AREAS. (Salary 212 per week). Applicants should have had experience in super-vising the erection of large buildings preferably in non-traditional construction. The successful applicants will, where possible, be transferred to other projects in the area on the completion of initial contracts.

other projects in the area of the area of the projects in the area of the area

Shire Hall, Warwick. August, 1964.

August, 1994. 322 LANCASHIRE COUNTY COUNCIL— PLANNING DEPARTMENT. PLANNING ASSISTANT A.P.T. Grades V-VI (6260-5760) required at Manchester. Applicants should be qualified architects, preferably with experience in planning; a planning qualification in addition would be an advantage. Sulary within grade according to qualifications, experi-ence, present appointment and sxiary and two referees to Cunity Planning Officer, East Cliff County Offices, Preston, by 25th August, 1954. 3523 3503 COUNTY BOROUGH OF HUDDERSFIELD, BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT. Applications are invited for the following appointments......

Appointments :-(a) Two ASSISTANT ARCHITECTS (Grade A.P. & T. VIII-2785-2860). (b) HEATING, VENTILATING AND ELEC. (c) HEATING, VENTILATING AND ELEC. (c) SOUSSANT OLIANTITY SURVEYOR

(c) ASSISTANT QUANTITY SURVEYOR (c) ASSISTANT QUANTITY SURVEYOR (Grade A.P. & T. IV-2580-2625). Applicants for posts (a) must be Associate Members of the Royal Institute of British Architects; for post (b) must be suitably qualified and experienced; and for post (c) experi-enced in "working up." The Council has an interesting and varied pro-gramme of Schools and other Public Building work.

work. The posts are subject to the National Scheme of Conditions of Service, as adopted by the Council, and to medical examination. Housing accommodation will be provided for the successful applicants, if required. Applications with the names and addresses of three referees, should reach S M. Richmond, F.S.I.B.A., A.M.T.P.I., Borough Architect and Planning Officer, High Street Buildings, Hudders-field, not later than 30th August, 1954. Canvassing, directly or indirectly, will dis-qualify. qualify

HARRY BANN, Town Clerk.

Town Hall, Huddersfield. August 1954. CITY AND COUNTY OF BRISTOL. CITY ARCHITECT'S DEFARTMENT. Applications are invited for the following per-manent staff appointments :-(a) SENIOR ASSISTANT ARCHITECT-Grade VI (£695-25760 p.a.). (b) ASSISTANT ARCHITECTS-Grade II (520.656 p.a.)

(c) JUNIOR ASSISTANT ARCHITECTS—Grade II (c) JUNIOR ASSISTANT ARCHITECTG-Grade

(c) JUNOR ASSISTANT ARCHITECT-Grade I (2490-2535 p.a.). (d) JUNIOR ASSISTANT-General Division (2245 at 20, rising to 2470 p.a.). Applicants for (a) must be Associate Members of the R.I.B.A. and have had considerable experience in design, construction, and contract administration. Experience in multi-storey flat construction will be an advantage. For appoint ments (b) and (c) applicants must have passed the Intermediate Examination of the R.I.B.A. or equivalent, and have had good experience, includ-ing preparation of working drawings, details, etc. For appointment (d) applicants must be not less than 20 years of age, and have had suitable education and experience. Duties include tracing, colouring of prints, assisting with surveys, and Assistant Architect.

Assistant Architect. Housing accommodation available, if necessary, for married applicant, at economic rent. Further particulars and application form obtainable from me. Applicants must state the post for which they are applying. Completed application forms to be received by 23rd August. J. NELSON MEREDITH, F.R.IB.A.. City Architect.

J. NELSON MEREDITTH, F.R.I.B.A. College Green. Bristol, 1. <u>5th August, 1954.</u> <u>DEREY CORPORATION.</u> <u>BOROUGH ARCHITECT'S DEPARTMENT.</u> (a) SENIOR QUANTITY SURVEYOR. Grade VI. Salary 4695-Cf60. commencing at £695 per annum. Candidates should have had considerable experience in taking off quantities for large build-ing projects and in the settlement of final accounts. Preference will be given to qualified members of the Royal Institution of Chartered Surveyors (Quantities Section). (b) CLERK OF WORKS. Grade III. Salary £590-£595, commencing at £59 per annum. Appli-cants should have a sound knowledge of all build-ing trades.

cants should have a solution of the solution o

medical examination. Service. Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Derby, not later than 30th August. 1954. G. H. EMLYN JONES, Town Clerk.

DERBYSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for appointment of ARCHITECT'S, permanent staff, on A.P.T. Grades VI, V, IV and III. Duties in connec-tion with the erection of schools. N.J.C. scheme of conditions and pensionable posts. Applica-tion forms and details of the appointments from the County Architect, St. Mary's Gate, Derby, by August 23th. 3518

C Appli MIDDLESEX COUNTY COUNCIL-COUNTY ARCHITECT'S DEPARTMENT. ASSISTANT ARCHITECT'S DEPARTMENT. ASSISTANT ARCHITECT'S required, A.P.T.Y (£620-£670 p.a. plus London Weighting). Appoint medical assessment and prescribed conditions. Must be Registered Architects and experience of design of Educational buildings advantage. Appli-cation forms (stamped addressed fiscap envelope), from County Architect, 1, Queen Anne's Gate Bldgs. Darlmouth Street, S.W.I., returnable by 25th August (Quote N.927 AJ). Canvassing dis-qualifies.

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TL. IENT. ment of A.P.T. connec-. scheme Applica-nts from Derby, by 3518

# THE NORTH EASTERN ELECTRICITY BOARD.

BOARD. Applications are invited for the appointment of AgCHITECTURAL DRAUGHTSMEN, Chief Engineer's Department, Area Board Headquarters. Applicants should possess a sound technical education and have had practical experience in the layout and design of buildings, reinforced concrete structures, piled and slab foundations for components and the preparation of detailed draw-ine

concrete structures, piled and slab foundations for components and the preparation of detailed draw-ing.
 malary-Schedule "D" Grade 5-£567/671.
 X.B. Conditions of Service.
 Applications in writing, stating age, qualifica-ions and experience should be forwarded to The Secretary (Establishments). North Eastern Elec-tricity Board, G.P.O., Box No. 117. Carliol House, Newastle-upon-Tyne, within 10 days of the appearance of this advertisement.
 ASSISTANT ARCHITECTS.
 Applications are invited for two appointments as ASSISTANT ARCHITECTS in the Borough Engineer's Department, at a salary up to A.P.T. Grade VI-695 to CF06, according to qualifications and experience.
 The appointments will be terminable by one condition for superannualion purposes.
 Housing accommodation will be made available, irguired.
 Application for superannualion purposes.
 Housing accommodation will be made available, indenday, 30th August, 1964.
 HAROLD AYREY, Town Clerk. 2565
 WEST SUSSEX COUNTY COUNCIL.

3980 WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the appointment of a ARCHITECTURAL ASSISTANT at a salary accordance with Grade III A.P.T. Division 5550-559 per annum) of the National Scales of abries.

in accordance with Grade 111 A.T.L. SULTON (550-555 per annum) of the National Scales of Salaries. Parther particulars should be obtained from the Compty Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than 25th August, 1954. C. HAYWARD, C. C. MASUNA, 2567 METROPOLITAN BOROUGH OF CAMBERWELL. Department of Director of Housing and Borough Architect. (a) ASSISTANT ARCHITECT grades A.P.T. (b) JUNGR ARCHITECT grades A.P.T. III/ V (1650-6655 inclusive of 230 London weighting). Qualification required—A.R.I.B.A. (b) JUNGR ARCHITECT grades A.P.T. III/ V (550-6655 inclusive of 230 London weighting). Qualification required—R.B.A. Intermediate examination or its equivalent with a minimum of one year in an architectural office. No housing provided. Local Superannuation Act. Application from from Town Clerk, Town Hall, S.E.5. Closing date 31st August, 1964. MOUNTAIN ASH URBAN DISTRICT

ABIL, S.E.5. Closing date 31st August, 1984. 3540 MOUNTAIN ASH URBAN DISTRICT COUNCIL. APPOINTMENT OF ASSISTANT ARCHITECT. Applications are invited for the above appoint-ment. The conditions of employment will be in accordance with the National Scheme of Con-ditions of Service and the appointment will be remunerated in accordance with Grades A.P.T. II-IV according to qualifications and experience. The appointment will be superannuable and will be terminable by one month's notice on either tide. The successful applicant will be required to pass a medical examination. Applications stating age, qualifications and experience, together with names of two persons to whom reference may be made, must reach the undersigned not later than Monday. 30th August. 1954. Housing accommodation will be provided if required. BERNARD M. MURPHY.

Tousing accommonation will be provided if required. BERNARD M. MURPHY. BERNARD M. MURPHY. Clerk of the Council. Town Hall, Mountain Ash. Ist August, 1954. 3527 CITY OF WAKEFIELD. CITY ENGINEER'S DEPARTMENT. Applications are invited for the permanent apointment of an ARCHITECTURAL ASSISTANT on Grade A.P.T. V (12620-2670) com-mencing at \$620. Applicants should be A.R.I.B.A. and have experience of housing and general municipal work.

work. Applications, giving full particulars and names of two referees, to be sent to the undersigned by the 26th August, 1954. W. S. des FORGES, Town Clerk. Town Hall, Wakefield.

 Town Hall, Wakefield.
 3571

 SURREY COUNTY COUNCIL.
 Applications are invited for the appointment of TEMPORARY ARCHITECTURAL ASSISTANT GRADE 111, salary 2550 x 215 to 2595 p.a. plus London Allowance.

 Applications must be of good general training and give full details in their applications. Preference will be given to those who have passed Inter. R. I.B.A.

 Applications stating age, qualifications and experience accompanied by copies of three recent testimonials to the County Architect, County Hail, Kingston-on-Thames, by 21st August, 1954.

BOROUGH OF NEWCASTLE UNDER LYME. Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Salary Grade A.P.T. YI (1695-5760 p.a.). The Department has in hand a varied pro-gramme, including New Schools, Housing, Shops, Offices, Public Conveniences and other works. Candidates having appropriate experience and who are members of the R.I.B.A. will receive preference. Favourable consideration will be given to the provision by the Council of housing accom-medation in suitable cases. Application Forms and Conditions of Appoint-ment may be obtained from the Borough Engineer and Surveyo, Lancaster Building, High Street, Newcastle, Staffs., and applications should be returned to him not later than Tuesday, the Jist August, 1954. C. J. MORTON.

C. J. MORTON, Town Clerk.

 District Bank House, High Street, Newcastle, Staffs.
 Town Clerk.

 High Street, Newcastle, Staffs.
 3586

 CORPORATION OF DUBLIN.
 VACANCIES FOR TEMPORARY

 PLANNING ASSISTANTS, GRADE I.
 Latest date for receipt of applications-26th

 Salary : £975 per annum, inclusive of temporary allowance.
 Application forms and full narticulars from

Salary 1995 per annum, inclusive of temporary allowance. Application forms and full particulars from Establishment Department, City Hall, Dublin, where completed forms should be lodged. P.J. HERNON, City Manager and Town Clerk. City Manager and Town Clerk. City Manager and Town Clerk. City Mall, Dublin. 30th July, 1954. COUNTY BORGUGH OF CROYDON. Experienced CLERK OF WORKS required on the established staff of the School Architect. Salary within the scale £520-£625 per annum inclu-sive. The appointment is pensionable, subject to medical examination. Applications (on forms from the Chief Educa-tion Officer, 19, Katharine Street) must be sub-mited to him by 21st August, 1954. Living accom-modation is not offered. WEST RIDING COUNTY COUNCIL. ARCHITECTS required for first class architec-tural work in the Education Section of the office of the County Architect-applicants must be cap-able designers. Salary scales from £400-£816. Appli-cation forms may be obtained from the Cunty Architect, Bishoggarth, Westfield Road, Wakefield.

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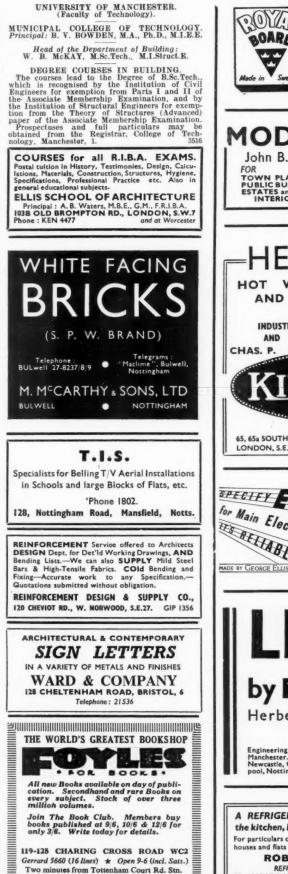
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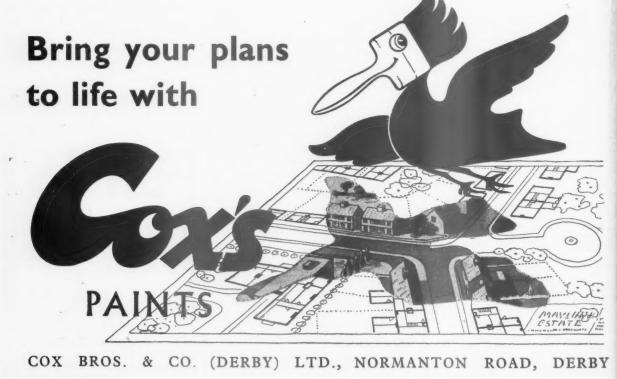




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