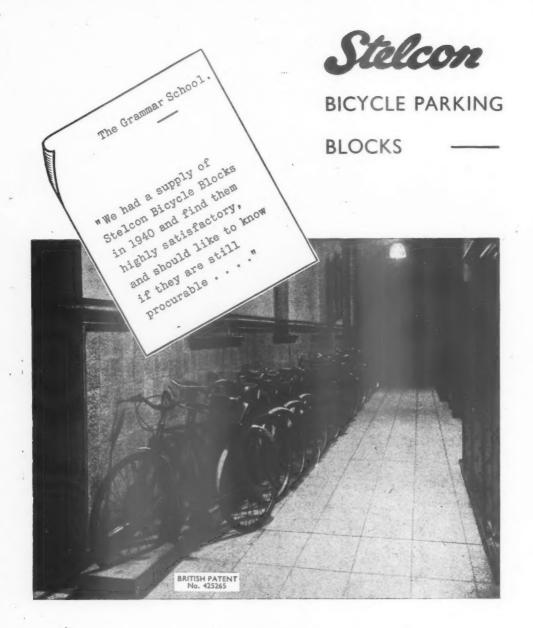
THE ARCHITECTS' JOURNAL for August 16, 1945 [iii





are still procurable from stock.

When laid lengthwise along a wall, very little space is taken up and the above is one of some hundreds of Schools finding The STELCON SYSTEM OF CYCLE PARKING simple and effective • Suitable shed units can also be supplied.

STELCON (INDUSTRIAL FLOORS) LIMITED CLIFFORDS INN Telephone : HOLborn 2916



Chimney after chimney . . . built with PHORPRES bricks..

For many years now the leading firms of industrial chimney specialists have preferred PHORPRES bricks, and one firm alone (Chimneys Limited) has built 259 industrial chimneys using PHORPRES bricks. This type of structure imposes more severe and fluctuating loads than any other. From footings to cap, a standard of performance must be maintained far in excess of that required in any ordinary building.



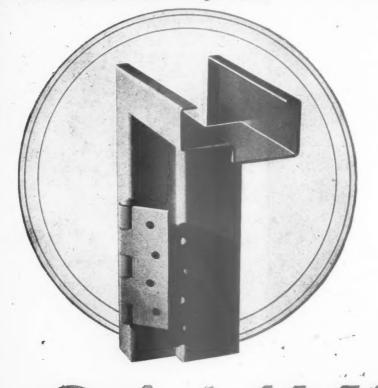
ONDON BRICK COMPANY

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Telephone: KEMPSTON 3131 Telephone: COLMORE 4141 Telephone: BRISTOL 46572

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vi] THE ARCHITECTS' JOURNAL for August 16, 1945



SANKEY METAL TRIM

DOOR FRAMES · WINDOW CILLS PRESSED STEEL SKIRTING PICTURE RAIL · CORNER BEAD ETC., ETC.

Metal Trim will undoubtedly play an important part in post-war construction, and those interested are welcome to a copy of our catalogue. For the time being, of course, we are only able to execute orders carrying Government permits.

11

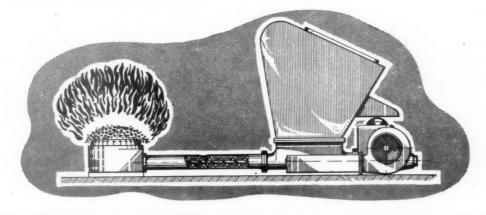
JOSEPH SANKEY & SONS LTD.

WELLINGTON, SHROPSHIRE. - LONDON OFFICE : 168, REGENT ST., W.I-

THE EFFICIENCY OF UNDERFEED STOKERS

The Underfeed Stoker operates with greater efficiency than any method of hand firing with solid fuel. It provides exactly the amount of heat required at any given moment. Higher outputs can be obtained from boiler or furnace without increasing plant. It is widely and successfully used for firing Hot Water and Central Heating Boilers; Vertical, Shelltype, Water Tube and Loco type Steam Boilers, and for an extensive range of Industrial Ovens and Furnaces.

The high efficiency of Underfeed Stokers arises from the basic Underfeed principle. This ensures that the surface of the firebed always presents an incandescent surface which is never blanketed by the feeding of raw coal on top and from which a maximum of radiant heat is transmitted to the boiler surface. There are no heat losses due to frequent opening of the fire-doors to charge in fresh supplies of fuel. Firing is mechanical, and automatically controlled according to the amount of heat required. Smoke is mostly eliminated.



Full details of Underfeed Stokers are obtainable from the Underfeed Stoker Makers' Association or its Members. This advertisement is sponsored by the following Members of the U.S.M.A.

"BEANESS," Binns & Speight Ltd., Bradford * "C.G.S.," Bastian & Allen Ltd., London. "IRON FIREMAN," Ashwell & Nesbit Ltd., Leicester * "MIRRLEES COMBUSTIONEER," Mirrlees, Bickerton & Day Ltd., Stockport * "MOTORSTOKOR," Hope's Heating & Lighting Ltd., Birmingham * "PRIOR," Prior Stokers Ltd., London * "RILEY ROBOT," Riley Stoker Co. Ltd., London * "UNICALOR," Joshua Bigwood & Son Ltd., Wolverhampton * "VULCAN," John Thompson (Triumph Stoker) Ltd., Leeds.

Underfeed Stoker Makers' Association



12 Rickett St., London, S.W.6 Fulham 7881-5

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FLEXIMERS - the New Flooring

SEMTEX FLEXIMER FLOORINGS are available to meet the needs of hotel and institution planning everywhere. They range from the purely utilitarian to the ultra decorative.

HOTEL LOUNGE



A complete flooring treatment is now possible—from the 'tanked' Service Bar flooring, impervious to beer and spirit stains, to the most modern lounge, vestibule, ward or schoolroom. Each section of a building can have a fleximer floor specially adapted for its own particular need. SEMTEX FLEXIMER FLOORINGS may be used as a protective, resistant base to receive other applied floorings of a decorative character.

SEMTEX FLEXIMER FLOORINGS are applied cold *in situ*. They form an integral part of the building itself, and are damp-proof, resilient, silent, hygienic and long wearing.



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SALES DIVISION

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LONDON

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English Electric

Domestic Appliance Department

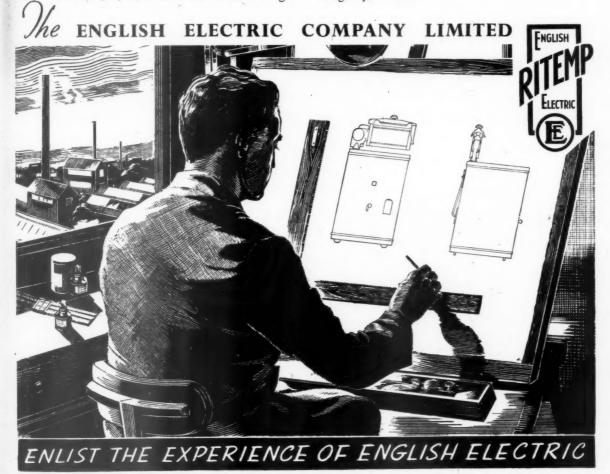
MESSAGE FOR AUGUST

N post-war housing schemes, Electricity will be much more extensively used for cooking, hot-water systems, clothes washing and other purposes.

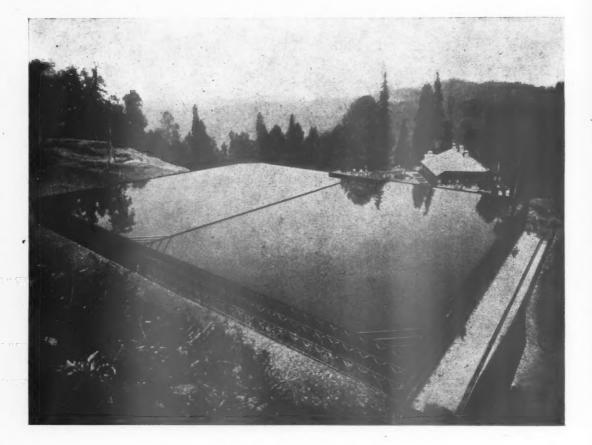
Through our earlier experience, greatly amplified by the production of heavy duty equipment for Works' Canteens and British Restaurants, we shall be able to offer a range

rn ve d. re, er. of domestic appliances of very advanced design.

Before reaching any decisions, therefore, it will be in your interests to discuss your requirements with one of our Development Engineers. Please address your enquiries to Domestic Appliance Dept., Queen's House, Kingsway, W.C.2.



PRESSED STEEL TANKS



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Designed to fit snugly into lines of kitchen equipment, New World gas cookers are available with these features:

- I. All controls on the front.
- 2. Vertical or horizontal models, i.e., with hotplate over oven or with hotplate alongside oven. The lower illustration shows the alternative arrangement of the cooker units, to replace that depicted above.

N.S

3. Regulo oven-heat control, New World oven, Radiation hotplate features and finishes.

RADIATION LTD., are manufacturing and supplying gas appliances conforming fully to specifications drawn up by Ministries concerned with Housing, and will be pleased, on request, to furnish full particulars to Local Housing Authorities.





ALTERNATIVE ARRANGEMENT FOR REGULO NEW WORLD COOKER UNITS

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SPECIFIC ATION -For suitable form of specification, see pot

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IDARD SPECIFICATIONS FOR EVERY TYPE OF ROOF

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This publication entitled "Standard Specifications for Ruberoid Roofs" provides Architects and Engineers with a comprehensive reference to the best methods of weather proofing all types of wood or concrete roofs

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Ruberoid Contract Departments located in London, Birmingham, Manchester, Newcastle, Edinburgh, Dublin and Belfast, promptly undertake work on any scale and in any part of the country. Estimates sent on receipt of particulars

As our Industry is controlled and rriority has to be given to Government works our ability to execute orders is subject to the regulations imposed on our Industry by the Ministry of Works.



THE RUBEROID CO., LTD., 1, COMMONWEALTH HOUSE, NEW OXFORD STREET, LONDON, W.C.1

ARCHITECTS AND ENGINEERS ARE INVITED TO WRITE FOR A COPY OF THIS RUBEROID PUBLICATION No. 326 ENTITLED "STANDARD SPECIFICATIONS FOR RUBEROID ROOFS."

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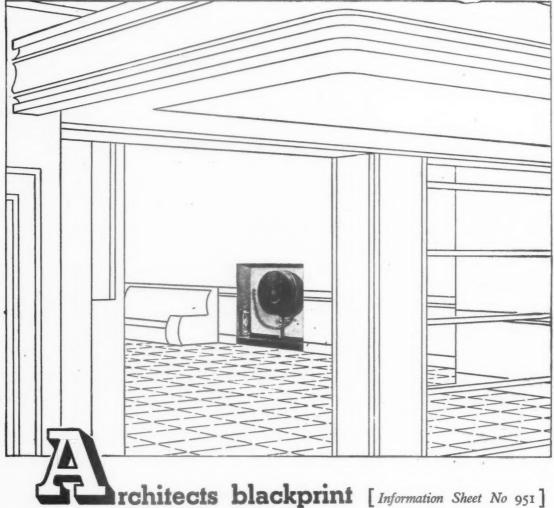
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WHICH SPECIFICA

page

Alternative materials which may be employed in Specification



hitects blackprint [Information Sheet No 951] on application

The Pyrene "Everyway" Hose Reel and the Conquest Soda Acid Fire Extinguisher—each is pre-eminent in its class—can be accommodated in a recess 14in. deep. Full dimensional details are given in Information Sheet 951 (105 Revised). New building calls for modern equipment and copies of the revised Information-Sheet will therefore gladly be sent on request.

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We look ahead (and only just a very little way ahead now) to the greatest rebuilding programme in history. Remember there are 'S.G.B.' depots and branches throughout Great Britain. Our organisation stands ready to play its part with speed and efficiency.

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DEMOLITION

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Min Demolition is a highly specialised trade necessitating ex-APP perienced direction and the use of skilled top and 18

The National Federation of Demolition Contractors has been very careful to ensure that all its members are demolition contractors of experience and with adequate organisations.



The employment of a member of The National Federation of Demolition Contractors means that demolition will be carried out with speed, economy and safety.

Fullest information may be obtained from THE SECRETARY, 13, BLOOMSBURY SQUARE, LONDON, W.C.I Chancery 6731, 2, 3.

TECHNICAL ADVICE ON **ROOFING PROBLEMS**

WHATEVER may have been the case in W the past when pitched roofs were common practice in building, there is no gainsaying that the modern change over ' to flat roof raises innumerable technical problems which call for the expert guidance of specialists in flat roof covering.

F. MCNEILL & CO. LTD., desire to place at the disposal of Architects and Builders the services of their Technical Departments.

They will be pleased to co-operate in solving any problems that may arise and to advise, from their wealth of practical experience on the most suitable type of flat roof covering for whatever purposes required.

At present, regulations place limitations on actual construction, but it is wise to carry forward plans as far as possible so that no time may be lost when normal construction and reconstruction work is set free from restrictions



F. MCNEILL & CO. LTD. Specialists in Flat Roof Covering

10, LOWER GROSVENOR PLACE, LONDON, S.W.I

Telephone : Victoria 6022-4

Telegrams : "Eyeball," London

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POST-WAR HOUSING

No. 3. Heat Losses through Floors

RECOMMENDED' STANDARDS

The Housing Manual 1944,* issued by the Ministry of Health & Ministry of Works, Appendix B (Structural Standards), paragraph 18 reads as follows :---

"Ground floors should have a heat transmittance coefficient not greater than 0.3. Where the method of construction is such that a higher standard can be attained at moderate cost this should be the aim; coefficients as low as 0.15 are to be recommended.'

Post-War Building Studies No. I. "House Construction " *(the Burt Committee report) shows, on page 17, that for a ground floor of "lin. (nominal) tongued and grooved boarding on timber joists with a well-ventilated airspace underneath" and with a covering of thin linoleum, having an overall thermal transmittance ("U") of 0.35, an expenditure of Is. per sq. ft. to halve the heat loss through the floor would entail no extra cost to the occupier. The saving in fuel cost would balance the extra rent charge whilst national fuel resources would be conserved. If the heat loss could be halved for less than Is. per sq. ft. "the rent payer also would benefit by a reduction in his total expenditure on rent plus heating."

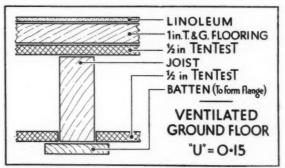
In the living room "about Is. 6d. (per sq. ft.) could be spent on halving the heat loss through the floor . . . without increasing the expenditure of the occupier, who would benefit directly if the cost was less than Is. 6d."

*H.M. Stationery Office, 2/- each.

HOW TO ACHIEVE STANDARDS

The ventilated timber ground floor, so widely used in this country, can very easily and economically be brought up to the new thermal standards by insulation.

The accompanying sketch and figures show that, at the current control price of $\frac{1}{2}$ in. TenTesT of 2s. 4% d. sq. yd., it costs far less than Is. per sq. ft. to halve the heat loss through an ordinary ventilated timber ground floor and, indeed, to bring it to the highest recommended standard of efficiency.



The same system of insulation can be used with joists of steel, concrete, etc.

TABLE OF THERMAL TRANSMITTANCES

Ventilated Ground Floors			
lin. (nominal) tongued and grooved boarding on joists, covered thin linoleum	0.35		
Ditto, but with ½in. TenTesT between floorboards and joists	0.24		
Ditto: but with lin. TenTesT between floorboards and joists	0.18		
Ditto: but with 2 layers of 1 in. TenTesT separated by an air-space (see sketch)	0.15		

IF YOU are concerned with the design of post-war buildings, perhaps we can help you in one or more of the following ways :

- 1. Advise whether your proposed construction achieves the appropriate thermal standards.
- 2. Show how TenTesT products can help and how they can best be incorporated in the structure.
- 3. Send you our booklet "Structural Insulation" showing how, when and where to use insulation and how to calculate the results in terms of fuel, heating plant and £ s. d.

TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS. Telephone : BAR net 5501 (5 lines).



Telegrams : Fiboard, 'Phone, London.

WIMPEYS AT WORK

Transport's place in planned building construction



TIME

HINGES ON TRANSPORT

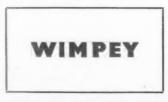
Actual work on a building project can keep to progress schedule only if transport has been planned to "dovetail in " at every stage . . . and keeps its promises. With Wimpeys, work on site and transport to site are, as it were, on the same chart — closely knit parts of a single plan and its execution.

In Wimpey's Operations Control Room, when a time schedule is plotted, it is never forgotten that if men, materials and plant are to function smoothly, transport must run dead on time.

Before Wimpeys start a job they

know not only how many lorries will be needed, but what and how much each lorry will carry on what day, when it will start and when arrive. They maintain more than 600 of those famous yellow lorries - the biggest haulage fleet run by any building organisation in the country. Their lorries range from 1-tonners to the latest 16 yd. waggons. And they keep in continuous action a 7 acre maintenance yard near London, a 10-acre at Glasgow, large depots at Cardiff Birmingham, Manchester, Nottingham, Newcastle, and mechanical engineers all over the country : so that every lorry is well maintained and breakdowns . negligible.

All this planning and organising of transport has one simple object : a regulated, punctual flow of men, materials and plant to the job in hand. And its success is one important reason for Wimpey's sixty years of steady progress.



GEORGE, WIMPEY AND COMPANY LIMITED TILEHOUSE LANE DENHAM MIDDLESEK

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SHIPS

"TURNALL" Asbestos Spray ..

THE PENICILLIN OF THE CONSTRUCTIVE WORLD

IN SERVICE SINCE 1932 FOR



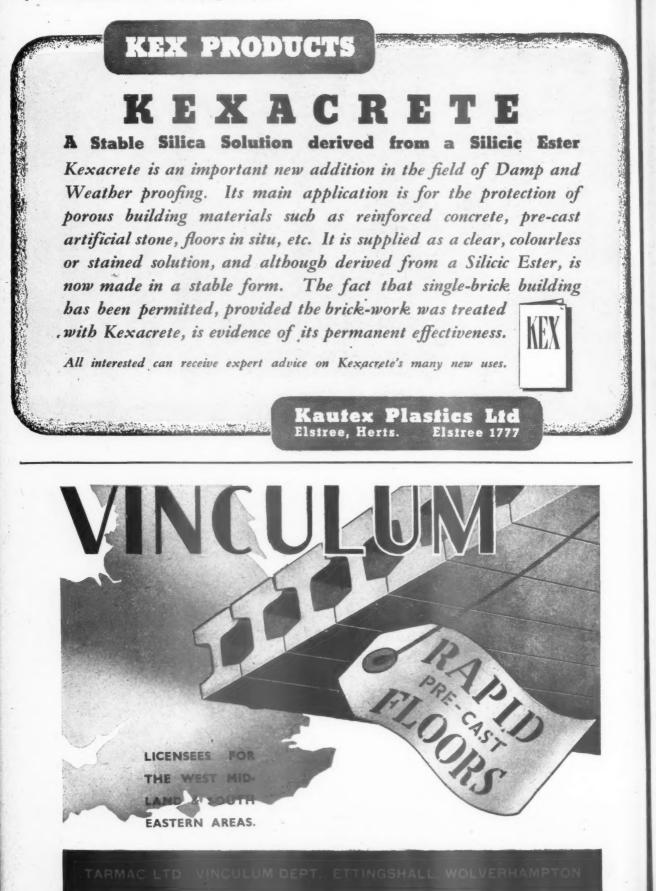
HEAT INSULATION GONDENSATION ABSORPTION FIRE PROTECTION SOUND ABSORPTION

THERMAL INSULATION K = 04SOUND ABSORPTION $\frac{1}{2}'' = 04$ FIRE PROTECTION B.R.S. Test Grade 4 hrs. CONDENSATION ABSORPTION 6 times its own weight LIGHT WEIGHT : 12 lbs. per cu. ft. QUICK DRYING : normally 8 hrs.

Write for Special Booklet Section 23/A

TURNERS ASBESTOS CEMENT C° L^{TD}.

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THE ARCHITECTS' JOURNAL for August 16, 1945 [xxi PRECISION ROOFING PRECISION' GRILLAGE WELDED AT ALL GRILLAGE SECURED TO PURLIN BY HOOKBOLT PLAIN THE CLIP SECURES HEAD OF BOTTOM SLATE & LIES SLATE PRECISION GRILL AGE TILING CLIPS EVERY THROUGH SECTION OMETRI ILED' ROOF ATED ROOF

Slated Roof.

WORKS - PRODUCED SYSTEM CONSTRUCTION ROOF of

A new and simple system of roofing which is works-produced and can be speedily erected with a minimum of skilled labour.

The system consists of a standardised steel grillage, electrically welded at all intersection points and gauged to suit the type of covering material employed. Slates or roof tiles are secured to the horizontal bars of the grillage by specially designed rustless steel clips.

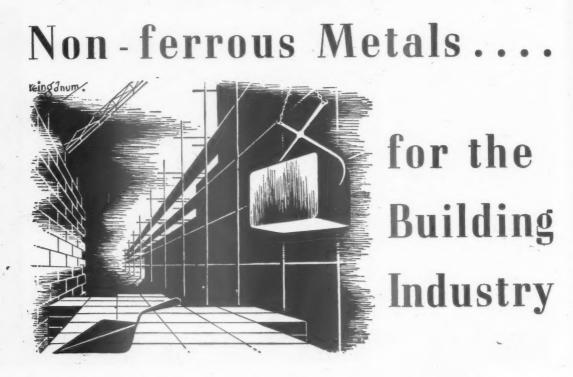
Full details of Precision Roofing are contained in a booklet which will be sent on request.

Underside of Slating

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London Office: 10 Grosvenor Gardens, S.W.I In association with . . . McCALL & CO. (SHEFFIELD) LTD. TEMPLEBOROUGH, SHEFFIELD B PR.I



The pace of post-war building reconstruction will depend greatly on the planning that has been done beforehand. Collaboration of producer, architect and contractor will quicken the pace and ensure at the outset the use of the most suitable materials for different classes of work. In the field of nonferrous metals the Metals Division of I.C.I. offer their wholehearted co-operation. As manufacturers of extruded sections for all architectural purposes, copper roofing sheets, copper expansion joints, copper damp-proof courses and many other items of building equipment in all kinds of non-ferrous metals, I.C.I. possess exceptional manufacturing experience and facilities for research. Enquiries will be welcomed.

Please write to-IMPERIAL CHEMICAL INDUSTRIES LIMITED LONDON, S.W.1. THE ARCHITECTS' JOURNAL for August 16, 1945 [xxiii

WHEREVER gas is installed, in the home or in the factory, EDGAR FLEXIBLE PLUGS AND SOCKETS are indispensable, since only by this method is it possible for any portable gas appliance to be removed from room to room, plugged in and be instantaneously ready for use where needed.

Merely by inserting the plug into the socket and giving it a quarter-turn, the appliance (whether it be gas fire, poker, iron or copper) is connected and the gas automatically turned on.

In all new buildings specify



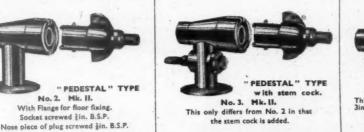
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FLEXIBLE PLUGS & SOCKETS

"ORDINARY" TYPE No. I. Mk. II. Socket screwed ‡In. B.S.P. Nose piece of plug screwed ‡In. B.S.P.

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FLUSH FITTING

This type has heavy brass plate 4ins. long and 3ins.wide with holes in corners for fixing screws. Socket screwed §in. B.S.P. Nose piece of plug screwed §in. B.S.P.



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Plug in to

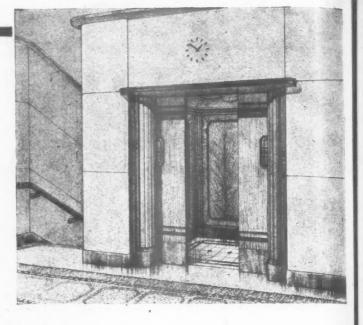
WM. EDGAR & SON LTD., BLENHEIM WORKS, HAMMERSMITH, LONDON, W.6

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FOR ARCHITECTURAL DECORATION IN WOOD AND METAL.



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START WITH A SOUND PLAN Start every job - construction or re-construction - with the finish in mind. CERRUX is the logical specification, for these excellent Decorative Finishes afford the utmost protection to wood or metal fittings: END WITH THE DERFECT FINISH are easy and rapid to apply, whether by brush or spray : offer a fine colour choice : and, whilst maintaining the seemly appearance of the structure as a whole, reduce paint maintenance costs to a minimum.

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Meanwhile CERRUX experience is making the best of available substitute materials and is thus still producing a product second only to the pre-war (and post-war) CERRUX itself.

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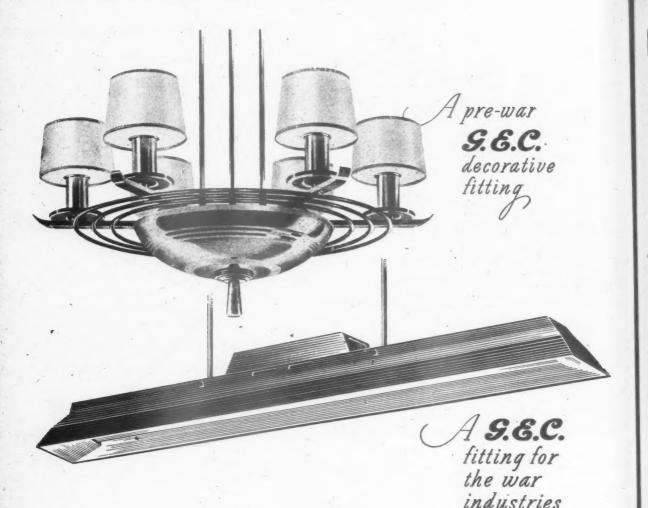
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DECORATION



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ELECTRIC LIGHT FITTINGS

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An Octopus and a Chromium Plating process—the connection? Simply that where CROMALIN is concerned, there is one definite similarity—a relentless GRIP.

Because of its inseparable bond to the base metal, the CROMALIN finish offers the greatest resistance to wear and tear and atmospheric corrosion, and it can be applied not only to Brass and Steel, but also to Aluminium, Aluminium Alloys and Zinc alloy die castings.

Write to us NOW, and let us tell you more about it.

METAL FINISHES LTD., CROMALIN WORKS, NEW SPRING ST., BIRMINGHAM, 18.

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MODERN

METAL FINISHES

will lighten the way ...

Let Rushton's accentuate the beauty of modern illumination with the aid of metal finishes.

Their long experience and wartime development in the Anodising of Aluminium and its Alloys in natural or colourful finishes, and bright finishes in Chrome, Nickel, Brass and Copper for interior and exterior display purposes, etc.,'ais', at your service. Why not consult us now, while your ideas are still at the blue-print stage ?

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"We are interested in the application of Plywood to Housing, and should be pleased to have your assistance."

"I am very interested in the development of timberframed buildings . . . , am wondering if you can assist me with any suggestions and data ''

"As a Housing Consultant, I am in need of all the data I can obtain on resin-bonded Plywood and its application to mass-produced housing. I am advised that you can help "

"We are intending to make considerable use of timber, [and any assistance you may be able to give us will be appreciated."

These are typical of many requests for information we have received from timberusers in various parts of the country.

It's our business to know timber as well as to sell it . . . to collate all the timber data published by official research bodies and to pass on to our friends whatever is useful and practical. Whenever you can make use of our Technical Consultant we'd like you to write to him. He will gladly do what he can to assist you.



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COVENTRY



REMEMBER?

It was January 23, the day when the temperature fell to 24° of frost, and people were fetching fuel in sacks and prams. So much of the discomfort of last winter could have been avoided if our buildings had been properly insulated. They would have retained heat more efficiently. They would have made the available fuel *last* longer. Insulation should be a normal part of all future building.

CELOTEX is the best-known name in the Insulation Board industry. Celotex insulating board can be used in floors, walls, ceilings, roofs and partitions, in any type of building. It has been doing sterling service during the war, helping to save fuel in factories and other buildings devoted to the war effort. In the years of peace it can do a still bigger job—saving fuel costs in industry, enhancing comfort in private homes, easing the country's fuel problem.

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Windows, Doors, Mouldings, Staircases, Dressers, Kitchen Units

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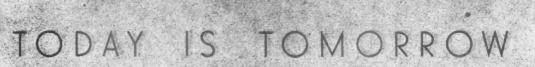
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Today is the Tomorrow we planned for Yesterday. In the Yesterdays, when all our skill and resources were given to the war effort, we had an opportunity to test new materials and their possibilities.

Today the valuable experience so gained can be turned to peacetime uses in the interior planning of stores, business premises, and the decorative treatment of public buildings.

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BEDFORD SQUARE, LONDON, W.C.1





THE ARCHITECTS' JOURNAL for August 16, 1945 [xxxiii

In common with every other periodical this JOURNAL is rationed to a small part of its peacetime needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates : by post in the U.K. or abroad, £1 155. od. per annum.



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FOR DIARY AUGUST SEPTEMBER AND **OCTOBER**

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by their initials as given in the glossary of abbreviations on the front cover.

BIRMINGHAM. Modern Building Tools Exhibition. At Big Top Site, New Street, (Sponsor, MOW.) Ост. 9-13

BRISTOL. Modern Building Tools Ex-hibition. At Black Boy's Hill (Sponsor, MOW.) Oct. 23-27

CARDIFF. ARDIFF. Timber House Exhibition. At David Morgan Ltd., The Hayes, rdiff. The exhibition will be opened by Cardiff. Percy Thomas, President of the RIBA. (Sponsor, TDA Bristol Channel and South Wales area.) AUG. 16-25

DISS. Country Life and Country Needs Exhibition. At the Corn Hall. (Spon-Hall. (Spon-Aug. 16-18 sor, BIAE.)

GLASGOW. Modern Building Tools Ex-hibition. At Glasgow Green, on site adjacent to People's Palace. (Sponsor, MOW.) AUG. 16-18

HOMERTON. NALGO Exhibition. At Homerton College. (Sponsor, BIAE.) SEPT. 24-OCT. 8

I LKLEY. NALGO Exhibition. At Grammar School. (Sponsor, BIAE.). At the Ост. 1-8

L IVERPOOL. Modern Building 100.5 Exhibition. (Sponsor, MOW.) Sept. 11-15

ONDON. Daily Herald Post-War Homes Exhibition. At Dorland Hall. (Spon-sor, HC.) 10.30 a.m.-6.30 p.m. Aug. 16-25 Summer School on Health Education. By the Central Council for Health Education at Chelsea Polytechnic, London. Aug. 16-29 Exhibition. At the YWCA. BIAE.) Oct. 6-13 NALGO (Sponsor, BIAE.) NALGO Exhibition. At the Geffrye (Sponsor, Mus eum, Kingsland Road, E. BIAE.) DEC. 3-15

MANCHESTER. Manchester and District Planning Exhibition. At the City Art Gallery, Mosley Street. The exhibition is the result of research by engineers, archi-tects, surveyors and other experts, working logether under the direction of R. Nicholas, the City Surveyor and Engineer of Manchester, and Honorary Surveyor to the Manchester and District Regional Committee. Over two years ago a start was made with a very small planning staff, and although the City Council approved of a arge extension of this staff, great difficulty nittee. as encountered in obtaining the services of efficient and capable assistants. The partial completion of the air raid shelters rogramme released a number of technical stants for planning, but the majority of he large amount of work has been carrier

out during the past 18 months. At the peak of the output the staff consisted of 29 technicians and 20 draughtsmen working at high pressure on the City Plan, whilst 10 technicians and 8 draughtsmen were similarly engaged ,on the Regional Plan. Information has readily been given by other Departments of the Corporation and by the Surveyors to the other 13 constituent authorities of the Regional Committee: The City Surveyor was authorized to prepare and publish these tentative plans, but the constructive criticism of individuals and all sections of the community is sought, in order that the respective authorities may be in a better position to gauge the require-ments and wishes of the public when official schemes are adopted. (Sponsor, Manchester City Council.) Aug. 16-SEPT. 8 Town Planning Institute Conference.

AUG. 31-SEPT. 1 Building Tools Exhibition. Modern (Sponsor, MOW.) SEPT. 25-29 N EWCASTLE. Modern Building Tools Exhibition. At Lovaine Place, Barras Bridge. (Sponsor, MOW.) AUG. 28-SEPT. 1 NOTTINGHAM. Country Life and Country Needs Exhibition. By the Not-ingham Rural Community Council. (Spon-REYDON. Country Life and Country Needs Exhibition. (Sponsor, BIAE.) AUG. 16-25 SEPT. 19-26

RUGBY. NALGO Exhibition. (Sponsor, BIAE.) OCT. 20-Nov. 3

VENTNOR. The Future of British Re-V sorts. Planning Our Holiday Areas. Town and Country Planning Association Conference at The Winter Gardens Pavilion. Ventnor, Isle of Wight. The confer-ence will be opened on October 6 by the Rt. Hon. Ernest Bevin and end on Octo-ber 9. Among those taking part in the dis-cussions will be Sir Patrick Abercrombie, representatives of all the main resort towns, of the travel and holiday organizations, of the bela catazing and resort inductions and the hotel, catering and resort industries, and by interested members of the public. The by interested members of the public. conference will be preceded by a holiday week, from September 29 to October 6, at the Wellington Hotel, Ventnor. The Holiday Week has been designed primarily as a holiday meeting of town and country planners, members of the Association and their friends. Excursions and a limited number of lectures on subjects related to town and country planning are being vork. NALGO Exhibition. At Hol-SEPT. 29-OCT. 9

gate Hill Settlement. (Sponsor, BIAE.) FEB. 10-23

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL'S starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

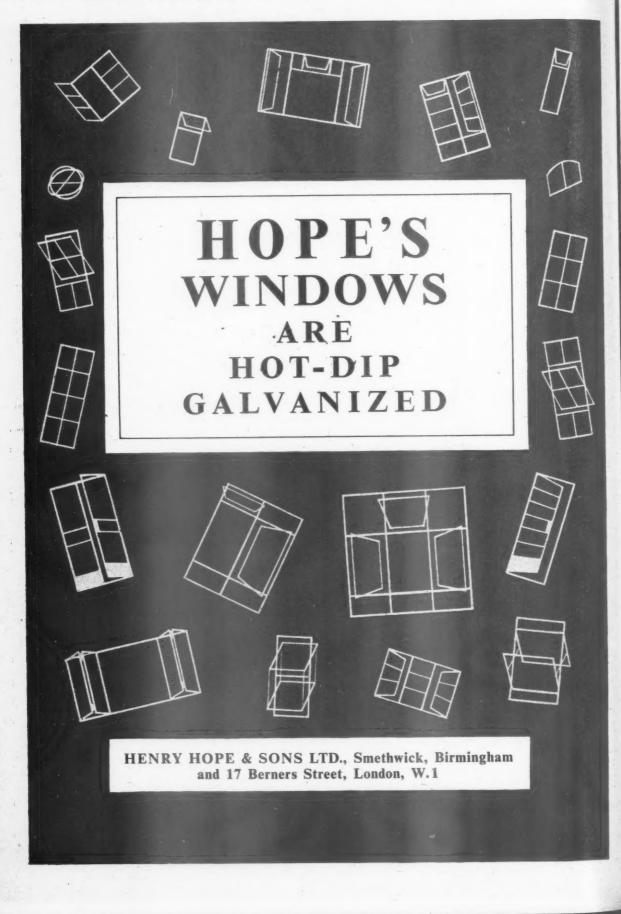
* means spare a second for this, it will probably be worth it.

** means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

Powers are sought in the Industries Development Bill, now before the Northern Ireland Senate, to FACTORIES AT BUILD EXPENSE GOVERNMENT for sale to Industrial undertakings. Sir Roland Nugent, Minister of Commerce, moving the second reading of the Industries Development Bill in the Northern Ireland Senate, said the Bill enlarges the scope of all previous New Industries Acts Senate. by permitting the Ministry of Commerce to acquire sites on which to build factories at Government expense for leasing or sale to industrial undertakings likely to create employment in Northern Ireland and which will eventually be able to stand on their own feet without further Government assist-The Bill removes all distinction beance. The Bill removes all distinction be-tween the treatment of new and existing undertakings. Hitherto grants and freedom from rent or interest on buildings have been permissible only in the case of new undertakings. By removing the distinction between newly established and existing undertakings the Bill follows the principle embodied in the British Distribution of In-dustries Act. Power is sought in the Bill for the acquisition of sites by purchase or on lease, and, in regard to the former, power is sought to acquire by negotiation or compulsorily. There are unusually strong safeguards for the owner and other persons interested in cases where the Ministry would propose to acquire land or pre-mises compulsorily. Other features mentioned by the Minister included the point that the appropriate Department will be empowered to make grants or loans for the carrying on of industry.

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From AN ARCHITECT'S Commonplace Book

THE MYSTERY OF WREN. [From British Architects and Craftsmen, by Sacheverell Sitwell (Batsford).] The most fortunate occurrence in the history of art in England is that Inigo Jones should have heen followed, in the next generation, by Sir Christopher Wren. And the problem, one of a pair of mysteries in our architecture, is the emergence of this scientist and mathematician into an artist. The only explanation is that Wren was a man of the Renaissance, and that the Renaissance came anything from a hundred to two hundred years late, to England. Let us remind ourselves that Wren was born in 1632, and that such typical figures of the Italian Renaissance as Leon Battista Alberti and Francesco di Giorgio were born, respectively, in 1404 and 1439. We will take another instance. The little model Renaissance town of Pienza, in Tuscany, built by Pope Pius II with churches and palaces by the Florentine Bernardo Rossellino, dates from 1458-1462, two hundred years and more before Wren's earliest building, the Sheldonian Theatre, and was the work of an architect born as far back as 1409. It is true that the literary Renaissance came earlier to England, and that its great period was over before Wren was born. But it is true also that Italian literature cannot compare with that of England. Their genius lay in painting and in the arts of hand. It is probably the immortal generation of Shakespeare, Ben Jonson, Marlowe, and the others, that has made the world think that poetry is the only art of England, flowering, in contradiction, in a material soil where only sport and commerce fourish, and the arts are stillborn or die at birth.

In addition to sponsoring the building of new factories, and the disposal of surplus Government factories, in accordance with the Government's general distribution of industry policy, the Board of Trade intends to use the powers given in the Distribution of Industry Act TO CONTINUE THE TRAD-ING AND INDUSTRIAL ESTATES in Development Areas and to establish new ones. The Board will normally operate these through trading estate companies financed by the Government under the terms of the by the Government under the terms of the Act, and will continue the existing com-pantes set up under the old Special Areas Acts. These companies are: North Eastern Development Area—North Eastern Trading Estates Ltd. South Wales Develop-ment Area—South Wales & Monmouthshire Trading Estates Ltd. Scottish Development Area—Scottish Industrial Estates Ltd.; Lan-arkshire Industrial Estates Ltd.; West Cumberland Development Area—West Cum-Cumberland Development Area--West Cumberland Industrial Development Company Ltd. Trading and industrial estates which are owned and managed by any of these four companies will continue to be operated in the same way as at present. Some estates, however, were owned by the former Commissioners for Special Areas under the old Acts, and managed on their behalf by inding estate companies. For these estates and for the new estates which are to be established, the normal arrangement will be for the Board of Trade to own the land and lease it to the trading companies. The of Trade, and will be financed by the Board of Trade, and will develop and manage the estates on a commercial basis. The follow-ing estates will be continued or set up. mg estates will be continued or set up. The locations and employment targets have been decided as a result of surveys by the Board of Trade of the needs and prospects of each Development Area. North Eastern: (a) Estates to be continued: —Team Valley, mg employing about 2000, parcoare; West now employing about 9,000 persons; West Auckland now employing about 1,500 Auckland, now employing about 1,500 (small extension planned); Pallion, Sunderand, now employing about 500 (small ex-tension planned). (b) New estates:--South Shields, Employment Target about 4,000; Hartlepool, Employment Target about 6,000. () The following Royal Ordnance Factories will also be taken over and operated as inding estates : —Aycliffe, Employment Tar-

get about 3,000; Spennymoor, Employment Target about 2,000. South Wales: (a) Estates to be continued: —Treforest, now employing about 14,000; (b) New estate, Swansea, Employment Target 10,000. (c) The following Royal Ordnance Factories will be taken over and operated as trading estates: —Hirwaun, Employment Target, 2,000/3,000; Bridgend, Employment Target, 2,000, 3000; Bridgend, Employment Target, 2,000, 3000; Bridgend, Employment Target, 10,000; Carfin, Larkhall and Chapelhall, now employing about 800 (further extension planned). (b) New estates: Newhouse, Lanarkshire, Employment Target, 10,000; Greenock and Port Glasgow, Employment Target, 6,000. West Cumberland: The existing trading estate at Maryport (to employ up to 2,000) will be taken over; and a new estate of similar size is proposed at Salterbeck, Workington.

During the quarter ended June 30, the Ministry of Health sanctioned OVER TWO MILLION POUNDS FOR HOUSING. Ministry of Health loans sanctioned during the quarter ended June 30 to local authorities in England and Wales were as follows: Housing, £2,436,947; municipal services (including clinics, sanatoria and mental hospitals), £575,120; swimming pools, playing fields, recreation grounds, open spaces, etc., £192,610; water supply, £258,237; disposal of waste products (sewerage and sewage disposal and refuse destruction), £201,016; education services (including libraries and museums), £19,884; air raid precautions, £12,600; roads and bridges (including private street works), £22,930; other services. (including loans to defray contributions, etc., under War Damage Act, 1943), £78,041. Total, £3,797,385.

The Bartlett School of Architecture, which has been working at Cambridge during the War, is now RETURNING TO UNIVER-SITY COLLEGE, Gower Street, its proper home. Work will be resumed in London as from the opening of the Michaelmas Term on Monday, October 1. Particulars of the Courses of Study may be obtained on application to the Secretary of the College. Mr. Brian Bannatyne Lewis, M.A., B.Arch., A.R.I.B.A., has been appointed ARCHITECT TO THE GREAT WEST-ERN RAILWAY Company in succession to Mr. P. E. Culverhouse, F.R.I.B.A. Born in Tasmania in 1906 Mr. Bannatyne Lewis was educated at Melbourne University where he became a Bachelor of Architecture, and at Liverpool University, where he became MA (Architecture). He won the RIBA Victory Scholarship in 1931 and studied in Spain, the Honan Scholarship of the Liverpool Architectural Society and studied in Scandinavia, the War Memorial Scholarship of the Victorian Institute of Architects, and has had office experience in Melbourne, Singapore and London. In partnership with his wife he carried out domestic works mainly in Westmorland and exhibited his own drawings of these in the Royal Academy in 1938-39-40. He volunteered in the Australian Imperial Forces and was on active service with a Field Company of the Royal Australian Engineers from 1940-43, serving in North Africa, Syria and Pacific until released on the application of the Ministry of War Transport to return to the GWR

In the new London housing drive bomb repairs are coordinated with LOCAL HOUSING programmes To co-ordinate the programmes of London local authorities over the whole field of housing, including bomb damage repair, an Interdepartmental Committee has been set up comprising representatives of the Ministries of Health, Works, and Labour and National Service, and the War Damage Commission. Its terms of reference are to plan and ensure due progress in the provision and repair of housing accommodation of every kind, and it will operate, as did the London Repairs Executive, in the London Civil Defence Region and in such other areas adjacent to the Region as the Government may decide. The Government Department with which local authorities deal on housing matters generally is the Ministry of Health, and for this reason the new Interdepartmental Committee will be situated at the Ministry of Health. Its Chairman will be Mr. H. Symon of that Ministry.



Architectural Irishism

Another architectural canon has been successfully broken in this Regency street. How often are students of architecture told that no unit should be reduced in size while the design of its parts remains the same as that of another similar unit in the same composition? Yet there is nothing displeasing in the juxtaposition of the different sized windows with

A substantial proportion of the houses which were destroyed or seriously damaged by enemy action have been classified as NOT TOTAL LOSS and will therefore qualify for a War Damage Act cost of works payment. This means that their owners are entitled to have them rebuilt or restored at the cost of the War Damage Commission. Making this announcement the Commission states: An effort will be made to carry out this work in the next two years in the cases of houses (1) which are of a rateable value not exceeding £100 in London and £75 elsewhere, and (2) the rebuilding of which is not prohibited by planning considerations. Local authorities in England and Wales and in parts of the London Civil Defence Region have been requested by the Government to give priority to this work in planning for the first two years, and to include in their programmes a quarterly quota of such houses, which will ensure that the whole shall be dealt with. Conditions in bombed districts vary so greatly that the laying down of any general rule is unlikely, but it is probable that first preference will be given in most areas to houses of the smaller types, and particularly if they are

so grouped that a number can be rebuilt by one builder under the supervision of one professional adviser, a factor which should make for speed by eliminating difficulties with regard to labour and materials. The Commission suggests that owners in such groups should now consult togetherpreferably before applying for a licenceand at the earliest possible moment inform the Regional Office of the Commission of their proposals so that agreement may be reached on them, including of course the important factors of specification and price. The adoption of this suggestion will enable the maximum amount of work to be put in hand as soon as labour and materials are available. It will be appreciated that in the more heavily damaged parts of the London Region progress in rebuilding will necessarily be somewhat retarded by the amount of repair work still to be carried out.

At Eastcote, Middlesex, a demonstration is being made of SPEEDY PERMANENT HOUSE P R O D U C T I O N A pair of houses is being built for demonstration purposes on a site on one of the

their change in scale in this façade. In spite of this rebellion against one of the accepted rules—perhaps because of it—in spite also of the crudity of detail and craftsmanship, the elevation has a charm and perversity that is typical of the people who produced it. The scene is, of course, in Eire; to be precise, O'Connell Street, Limerick. (Photo. by Eric Brown.)

> estates of Messrs. George Wimpey & Co., who have supplied the following notes on construction: A big cut in the number of skilled workers will be achieved by making the side, back and part walls of cellular concrete and only the front of brickwork. This concrete is poured into mammoth moulds, some of which represent the ettire side of a house. The moulds are placed in position by a crane and the walls produced from them are 12 inches thick, damp-proof and warm. The moulds can be used over and over again. Part of the success and speed of this method is due to the fact that the openings needed for all windows, door-frames, fireplaces and service pipes are allowed for in the moulds, but the chief advantage is that the maximum use is made of unskilled labour. As soon as the concrete is set the roof is fixed and the interior work carried out. The brick front is built last, so as to ensurrapid and easy access by the workmen. The front elevation can be individual in design, and as it normally comprises only thirteen per cent. of the total brickwork, skilled labour is cut to a minimum. In side, the house has been planned by Wimpey's with the co-operation of a Chartered Architect and in consultation with a great number of housewives. There are sliding doors between kitchen and living room, an abundance of built-in cupboards, fitmenis and wardrobes.

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The RIBA Card Index is now available for use in connection with post-war employment, and the Institute will welcome notifications of ARCHITECTURAL VACANCIES of every kind. The Card Index has been compiled from be information received on Questionnaires A and B which the architectural profession enerally has completed and sent in to the Institute. In addition to the names of architects fully qualified as Fellows, Assocates or Licentiates of the RIBA, or otherine, who require responsible posts, the index contains particulars of students and probationers of the RIBA and others who are seeking posts as assistants. Enquiries should be sent to the Secretary RIBA, 66, Portland Place, London, W.1, giving a description of the vacant post with details of the age and salary range, the locality of employment and particulars of such qualifications and special experience as may be considered essential. The RIBA will then put intending employers into touch with suitable applicants who are immediately or about to become available for employment. (See page xxxviii.)

Four hundred and two firms, nearly twice as many as a year ago, are MAKING UTILITY FURNITURE. The Board of Trade has designated thirtytwo additional firms for the production of utility furniture. The total number of hese firms is now 402, nearly double that of a year ago. The articles they will make include bedsteads, wardrobes, dining ables, sideboards, kitchen tables and cabinets, chairs and shelves.

In this country on a three months' visit arranged by the British Council is MADAME CARMEN PORTINHO, one of the foremost women architects and town planners in Brazil. Madame Portinho, who is on the staff of the University of Brazil, is here to make a special study of reconstruction and town planning. She is seeing Welwyn Garden City, the three new bridges-Waterloo, Hampton Court and Lambeth-and other features of architectural interest in London and the provinces.

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The Ministry of Works is to erect Fifty or Sixty PERMANENT PREFABRICATED HOUSES AT CHINGFORD. The houses, on the Airey system, and to be erected with the co-operation of the LCC as an experiment at Chingford estate, Essex, are of concrete construction consisting of vertical posts 1 ft. 6 in apart, to the outside of which are wired small pre-cast concrete slabs easily handled by one man, fixed to represent a weather-boarding effect. The internal lining is of plaster-boarding; the floors are of wood and the roofs are fat. The houses, which contain three bedrooms and have a floor space of 890 square feet, are of two types: one with a dining recess and separate sitting room and the other with a long double-aspect room runuing from front to back of the house.

THE CITY PLA

THE recent exchanges between the late Minister of Town and Country Planning and the Corporation of the City

of London, serious as were the issues, have not been without their lighter side. While irresistible events were approaching, the two administrators were asleep at their desks ; when the crisis is upon them they awaken suddenly and blame each other for the resulting confusion. Those sharp-voicedletters to The Times between Mr. Syrett and Mr. Morrison revealed little more than unawareness in the City and irresolution in the late Government. The main credit to be given, not discounting the efficacy of General Elections as alarm clocks, is to Mr. Morrison for having been the first to awaken, and certainly many of the points which he made, when they came at last in the form of a letter to the Corporation, were justifiable and unanswerable. London, said Mr. Morrison bluntly, should be visibly the Capital of a great Commonwealth of Nations. He hinted that the plan as it stood was mean and unimaginative, that; even the elementary and basic requirements of convenient accommodation and good circulation had not been faced, and that the obvious idea behind the proposals, of avoiding land purchase and interference with existing boundaries, was nothing less than a dominating negative. In fact, no attempt had been made to view the City as a whole, either in itself or in relation to the greater city beyond the walls, or to make long term provision for a comprehensive framework of redevelopment. Mr. Morrison ended, with some embarrassment and hesitation but with much common sense, by suggesting that the new City should be neither a museum exhibit nor an axial set piece of grand avenues, and that it would be a good idea if the City Fathers were to ask themselves, as he the Minister now asked them, what kind of a place a world capital, with a glorious past and a gleaming future, should really be.

How should we answer the question? The City of London, the Capital of great nations, must be a place where past, present and future may meet and merge without unnecessary conflict and with positive utility and delight. Sir Christopher's plan was too rigid. The happy-go-lucky way of the old City Fathers was too loose. Is there no other solution, no middle way, which is neither spineless compromise nor one-sided dictation? Is there no principle of design coherent yet flexible, small enough in scale to be æsthetically comprehensible and satisfying, yet large enough in conception to hold within itself the manifold and fascinating differences of practical need and human expression demanded by the many thousands of the City's workers, walkers, owners, tenants, administrators, and admirers? We believe that such a principle exists. We believe that a policy of Planned Informality, which accepts human ways of growth but turns them to the best practical and æsthetic advantage, fulfils these needs. This is an essentially English approach, human, tolerant, flexible and realistic, yet avoiding both the gibberish of nineteenth century laissez112] THE ARCHITECTS' JOURNAL for August 16, 1945

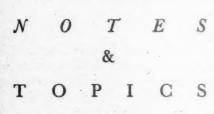
faire and the lifeless rigidity of the formal, axial lay-out so loved by dictators. It means a return to the conscious " art of the irregular" of the eighteenth century patricians—the art of Sharawaggi, as propounded by the Architectural Review.

Consider our City on its noble river, with its twin hills, the subtle heights and hollows, the narrow surprises of twisting Mediæval lanes contrasting with wide blitzed areas of broad promise, the countless enchantments and suggestions for redesigning and rehandling which come from rise and fall, curl and turn, old and new, closed and open, dark and light, still and moving, grey and green, stern and smiling, permanent and passing. All these are materials various as the City's nature itself, magic stuff from which many architects, many designers, under a co-ordinating master hand could conjure together into a practical and æsthetic whole hitherto unsurpassed.

Nearly three centuries have gone since the old Fathers of 1666 tossed aside their splendid opportunity. Now that this second and even greater opportunity has come, their blunder must not be repeated.



The Architects' Journal War Address: 45, The Avenue, Cheam, Surrey Telephone: Vigilant 0007-9



THE BIG BANG

Now that the dust over Hiroshima has settled, and the first shock of the fantastic new discovery is over, we can return to our cricket scores or alternatively to calm speculation on the implications of nuclear fission.

The first question that arises is naturally—can this new-found power be applied to production? At present its one constructive use seems to be in building demolition, as a useful method for rapid pulverisation of the slums. No longer need we toil wearily with pickaxe, barrow and five-ton lorry. Just a few pellets of uranium, the pressure of a finger, and a thousand tons of brick dust will be blasted into the stratosphere, there to provide us with splendid sunsets for a fortnight.

The energy is easy to release, says The Times Scientific Correspondent, but it is not easy to control. "Explosives such as TNT contain great stores of energy, but if is found easier to destroy surplus stocks than to utilise this energy. Still, the possibility is there." He reminds us that some 300 years ago the great Dutch scientist, Huygens, tried to make an engine work by the explosion of gunpowder in a cylinder, but he failed. Nevertheless, he continues, in view of what has already been done, who would despair of being able to harness the immensely more powerful uranium explosions? "We are, without doubt, entering on a new era, with a new source of energy that may dwarf all others in a few decades."

The papers have been full of moral clichés on this new-found power but most of them seem to have missed its fundamental significance, if, indeed, we shall be able to apply it to constructive uses. Its real meaning is that the problem of production may now have been solved beyond controversy.

One may doubt the late Lord Lever. hulme's declaration of 1918 that: "With the means that science has already placed at . our disposal, we might provide for all the wants of each of us in food, shelter and clothing by one hour's work per week for each of us from school-leaving age to dotage." One may doubt the engineers' figures that our potential productive capacity per man-hour since 1918 has more than doubled, or that we have at our disposal in the British Isles even now the equivalent in horsepower and kilowatts of at least forty human slaves to every household. But one cannot doubt that once the power of the atom can be applied, mankind will be released for ever from the need to toil for subsistence?

How ridiculous then will sound that plaintive wail for full employment which comes from a system of distribution based on a philosophy that no longer rings true, belonging as it does to the ages of scarcity that have passed —a system which makes international war at the same time both an inevitability and an anachronism. How easy then will it be to provide that creative and universal leisure without which cultural values must remain at a discount and architecture practically a dead art.

PREFABRICATION AND THE CRAFTSMEN As we expected, Prefabrication, ITMA catchword, butt for those originals Basil Radford and Naunton Wayne, is assailing the popular bookstalls. Two or three years ago one had to turn to the *Forum* or *Architectural Record* for a mention of the term. Now it is one of the architect's minor, but persisting, inconveniences how to answer the query: "But what does a prefabricated house look like?" It is not easy to satisfy this naïve search for knowledge, one that calls for a variety of elementary primers.

The one I have in front of me is by Bernard Cox, of the Association of Building Technicians.* It addresses the building employee rather than the general public, and is a very reasonable summary of the problem. Mr. Cox has been to the right sources for his information.



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This business of converting the building employee is fundamental. It was largely Trade Union opposition that scotched the steel house after the last war, and who can say that the trade unions have yet been won over? Certainly Mr. Coppock and his bricklayers are lukewarm. Prefabrication cuts right across the traditional attitude of the British craft unions which, by their constitution and outlook are ill adapted to accommodate changes of this type. So long as the plasterer will and may only plaster, and the bricklayer will and may only lay bricks, so long will they object to a method of building which requires, above all, a flexibility of skill and mind, an aptitude in dealing with many materials.

Building operatives must be encouraged to acquire several skills so that they can proceed from one job to another in the same building. This is a basic change of attitude and one that would enable the operation to absorb the new technique involved in prefabrication. But the change can only come with a release from the fear of insecurity and shortage and the acceptance of the potential plenty that lies ahead.

The illustrations on this page are from Das Kleine Ukraine Buch, commented m by Astragal this week,

11

GERMAN BOOK ON THE UKRAINE

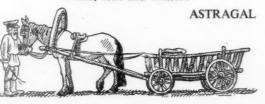
Thumbing books from the enemy gives you a curious sensation. The other day I wrote about the false sentimentality of a Nazi booklet on homemade mud-huts. Now a little German book has been blown to me which is just as sentimental, but in which for the life of me I cannot discover the falseness.

It is called *Das Kleine Ukraine Buch*, has a very pretty bright yellow cover with a label in what you might call Tyrolese Modern, thirty drawings of which two are reproduced here, and twenty excellent photographs of Ukrainian types, scenes, and buildings.

The book apparently came out with no official blessings, and is dated East Front, Autumn, 1943. The author, one Wimschneider, does, it is true, say that Russia has always been a danger to Ukrainian independence, but who would deny that? He also describes the Government buildings of Charkow as built "in the style of American skyscrapers," and "not without propaganda effect, although more utilitarian than representational," but that is exactly what to-day's Russian architects write against them.

Otherwise his text is full of naïve appreciation of the land, the peasants, the old Russian buildings suffering from bombardment, folk dance and folk music, and even Mussorgski's "mighty bars that make you divine the golden gate between West and East." It is no good denying—it all sounds exactly like the letters one gets from enthusiastic sergeants who prefer CEMA to ENSA.

Is there some hidden black purpose behind this apparently inoffensive little travel book? Some cunning decoy of the atrocities and the deportations? Should Astragal hand his pen to Vansittart? Or is the truth that right through the war the just have lived on with the unjust, have looked round, seen and written?





LETTERS

Judex

H. H. Bruce, (Chairman, Institution of Heating and Ventilating Engineers Code of Practice Committee).

Arthur Welford

G. A. Jellicoe, F.R.I.B.A.

M. M. Rich (Advertising Manager, Travis & Arnold).

Architect's Salaries

SIR,—The RIBA recently issued a statement on proposed salaries for official architects, which, if adopted, would go a very long way to meet the needs of our longsuffering profession. But how long will it take the various authorities to put the new scales into operation? Advertisements still appear in the architectural papers asking for qualified architects with Town-Planning degrees at salaries as low as £350 to £400 per annum.

The Chancellor of the Exchequer has admitted that the £1 sterling is now only worth about 8s. 6d., so when this fact and income tax are taken into account, the above mentioned salaries are more than halved.

For instance, a married man with two children under 16 has to pay £40 tax on a salary of £400, so with the reduced purchase value of the pound, he actually gets about £150 p.a., or less than £3 a week. It will be seen that anything less than £400 is below subsistence level. It is to be hoped that, in view of the vast new Government building programme proposed, the RIBA scale of salaries will receive the urgent consideration it deserves.

As for those skinflint employers in private practice who still advertise for assistant architects under the State Salary head-ing. I hope that some dark night that all the bit private private state solution. big paving stones in Portland Place will suddenly rise up and march in a regiment in protest to the RIBA and roar out a demand that this iniquity be promptly stamped out.

Bad employers deserve no consideration and least of all those who cannot even state what salaries they are prepared to pay. If these sort of people had their way, archi-tecture would revert to the sweated industry it unfortunately was in the bad old days of pupilage.

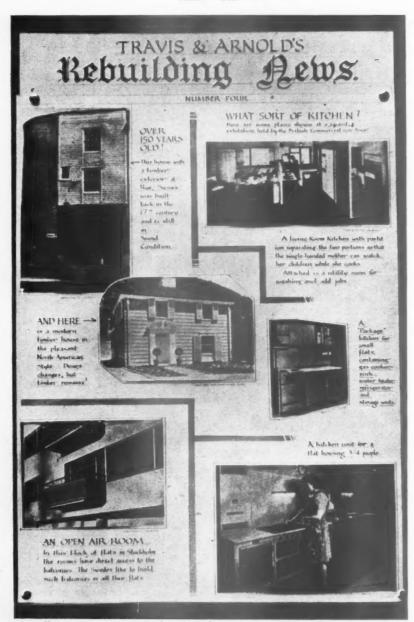
The RIBA has performed a public ser-vice in publishing the new scales of salaries. No time should be lost in putting it into action. JUDEX

Thermal Conductivity

SIR,-My attention has been invited to Mr. Sine's letter, in which he expresses wonder that the figures for the thermal conductivity of concrete published by the Institution of Heating and Ventilating Engineers differ so radically from those published by the American Society of Heating and Ventilating Engineers in their Guide.

May I say that in the 1931 ASHVE Guide the figure for a 1:2:4 mix was 8.3 and that in 1932 this figure was raised to 12? The change was recommended " in order to neer and contractor, as well as the owner, and to guard against failure . . . until such time as sufficient data may be made avail-able to allow the intelligent use of different values applying to different grades of concrete.""

The IHVE has reviewed the available data and is not aware of any measurements • F. C. Houghton and Carl Gutberlet "Conductivity of Concrete," Heating, Piping and Air Conditioning



A wall newspaper, composed of cuttings from the ARCHITECT'S JOURNAL, exhibited outside offices at Northampton. See letter on this page from M. M. Rich.

which would justify alteration of its published figures. If two materials, brickwork and concrete, are to be compared, it is important that the comparison should be a fair one; there is a British Standard Specification (No. 874-1939) which covers the determination of thermal conductivity; and the IHVE figures for brick and concrete have been determined in accordance therewith.

London

Town and Country Planning

SIR,-Anyone involved in the work of an interim development authority in adminisinterim development authority in admini-tering Town and Country Planning Act and Orders will sympathise with the Chair-men and Members of the Borough of Mans-field and the Urban District of Mansfield Woodhouse Town Planning Committees in their being let down by the late Minister of Town and Country Planning in the matter of the spoil bank proposed by a colliery company. company.

The two interim authorities were doing their duty in trying to preserve an amenity against serious spoliation by industry; they were entirely within their rights under the law, and were entitled to the support of

the Minister for that law. Judging from the material portion of the Minister's decision as quoted, the Minister appears to have stepped out of his sphere and to have acted negatively as Minister of Town and Country Planning and very positively as Minister of Fuel and Power and President of the Board of Trade as well.

But it was not for him to judge as to money costs to the colliery company; that was outside his province as Minister of Town and Country Planning. It was within his province to judge whether the proposal was destructive of amenities or not; but even here, although he agreed that it cer-tainly was so, his astonishing decision was to the effect that an addition to the existing mess would not matter. What a precedent

Planning Committees generally have put in a good deal of work for many years past and, no doubt, will have a lot more offered to them in future. It is thankless work of high responsibility. At least Committees should be able to count on the support of their Minister; without such support their efforts are a waste of time.

ARTHUR WELFORD

Woodbridge

Grange Road, Letchworth

SIR,—It may be of interest that the Local Authority has already appointed a panel of four architects for the first four hundred houses of the Grange Road Estate, Letch-worth, illustrated in the Planning Supple-ment of Luke 12.

ment of July 12. Incidentally, the drawing reproduced did not give due weight to the tree and hedge planting, which isolates the residential roads, and breaks up the circulating road into a sequence of compartments. G. A. JELLICOE

London

A Wall Newspaper

-You will be interested in the enclosed SIR photoprint of a wall newspaper which we exhibit outside our premises.

This edition is composed of cuttings of public interest taken, with one exception from the Architects' Journal, and pased on cartridge the size of the ordinary daily paper, acknowledgements are made to your journal under accentition journal under each cutting.

M. M. RICH

11

Advertising Manager, Travis & Arnold, Timber Importers, ampton. Builders' Merchants. Northampton.

BRUCE,

Chairman, IHVE Code of Practice Committee



NORWICH

FROM TOWN HALL TO TOWN PLAN

When Norwich's new Town Hall was opened in 1938, peace still reigned over the old town with its numerous ancient monuments and modern industries. To C. H. James and Rowland Pierce, the Town Hall's designers, severe war damage has presented the exciting opportunity of showing how the future of the entire town might be brought under a single master plan which would be the work of the same architects who have actually and already rebuilt the civic nucleus, which fortunately was not hit, and this Scheme with its report is therefore of unusual interest in town planning, from the viewpoint of the third dimensional approach. The plan is now being considered by the Norwich Council. Debating points have arisen on the City Engineer's amendments regarding Roads and Civic Centre, but the general decision is expected to be favourable, and preliminary steps to put the plan into operation may shortly be taken.

visual aspect

Throughout the report the emphasis is on the three dimensional aspect of town planning, and the authors have little hesitation in making recommendations for improving the appearance of the city. Unlike other recent planning reports, however, such as the County of London Plan, the Greater London Plan, and the Merseyside Plan, there are no appendices to the Norwich Plan giving the statistics relating to population, trade, industry, and other factual evidence produced from the surveys on which the plan is based.

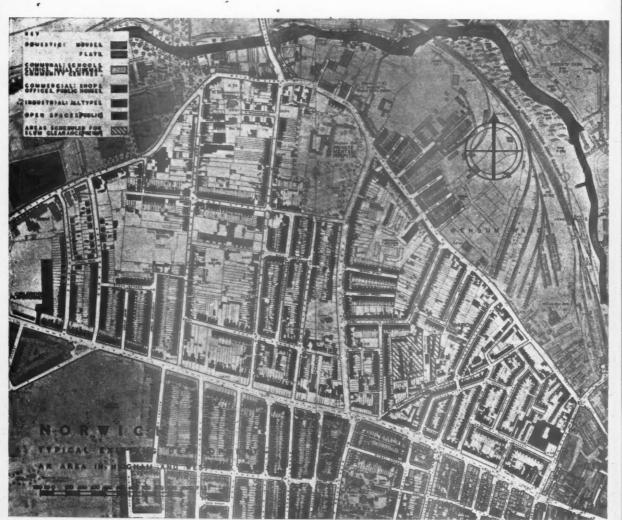
Judging from the report, Norwich is an enviable city. It stands out clearly as the natural and historic capital of East Anglia. It is the County Town of a fertile agricultural county, a traffic node for rail, road and river, a cultural and tourist centre, the shopping centre for 1,000 square miles, and it also has a considerable diversity of industries.

population

It is expected that the population figures will remain fairly stable, if the conditions for retaining existing industries and establishing some new light industries are made attractive enough. The plan is therefore concerned mainly with town tidying, with conservation and extension of its present attractions and amenities, and with cleaning up of its wardamaged and slum areas.



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An existing neighbourhood in Norwich. Overcrowding, slums, war damage, mixture of light industry and housing, lack of public green spaces and trees, incoherent street pattern carelessly produced, numerous accident points where side streets enter main road.

roads controversy

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The aim of the authors has been to produce a plan which, if carried out, would still be recognizable and essentially Norwich. The detail proposals are therefore sensitive to Norwich's charms and peculiarities, and aim at improvement without recourse to drastic town planning surgery. The joint report expresses the opinion that there is little need to disturb the existing street pattern within the city walls, improvement in detail being considered sufficient to meet future traffic requirements. The City Engineer's view, however, is that in the interests of safety and efficiency, a satisfactory street plan would involve the destruction of more property.

Of the alternative road systems that of the architects' appears to be the more reasonable. An inner and outer ring road is adopted for both; the City Engineer's outer ring being placed further out than in the architects' proposal, and his radial roads begin, not at the inner ring, but at the city centre. The crossing of the Yare Valley presents considerable difficulties in both schemes, the architects favouring a high level viaduct, 1,000 yards in length, whilst the City Engineer prefers to complete his inner ring route with 300 yards of tunnel. Undoubtedly the architects' scheme is the more exciting and spectacular, but only a detailed knowledge and study of local traffic problems and topography will help in deciding which is the better solution of a difficult engineering problem.

design control

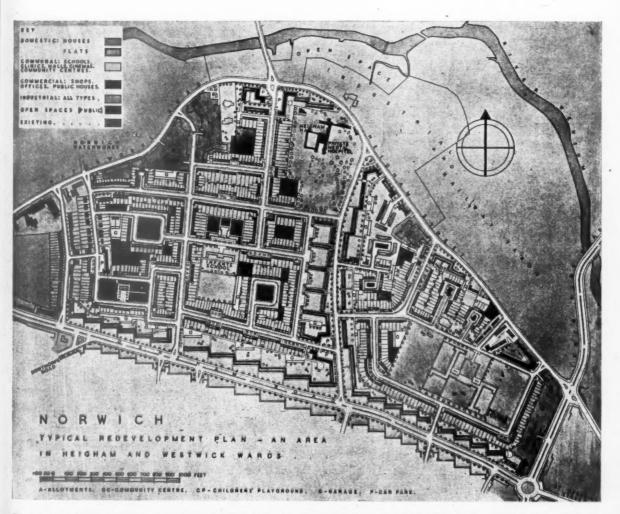
Much of the report is in the form of a cautionary guide with Good and Bad contrasted in photographs, and with exhortations to clean up the streets of their present untidiness and ugly patches. To quote from the report: Control must be extended to signs and fascias, street furniture, planting, in fact, to everything that combines to give the general impression denoted by the word Street. But how much time can we architects give to such details, important as they are, while the control of national housing and building generally is still far from being fully in our hands? Should we not tackle first things first?

civic centre

The proposals for rebuilding parts of the city around a new civic centre are illustrated by architectural perspectives contrasted with photographs showing the existing conditions, a vivid method of presentation which could be still more widely used.

landscape

The rivers Wensum and Yare are a great asset to Norwich, for both pleasure and profit, and the report points out how much more valuable they could become with a little forethought and at no very great expense.



The plan for the same area. Population thinned, light industry isolated, green spaces planted, main road entries cut down from 16 to 4, general rehousing including 4 storey blocks facing main road but with rear access away from through traffic.



Some of the architecture envisaged by the planners. From historical times warm Dutch bricks and pantiles have become part of the Norwich tradition, and Messrs. James and Pierce may be expected to continue and develop this character with the freshness already evident in the treatment of their Town Hall.

neighbourhood units

The maps of the city showing the present and proposed built-up areas are somewhat perplexing until it is remembered that the built-up areas as proposed will have a very much reduced gross density.

For the inner wards, many of them without any private or public open space whatsoever, the report proposes rebuilding at a net residential density of 60 persons per acre, to be achieved with 85 per cent. houses at 15 to the acre; and 15 per cent. flats at 30 to the acre. As in the County of London Plan, the neighbourhood unit principle of planning has been adopted for the residential areas, and an example is worked out as a redevelopment scheme for an obsolescent and slum area, though there certainly appears to be more than 15 per cent. of the total number of dwellings in the flats lining the main roads. The kind of houses the architects have in mind for such an area is well illustrated by coloured drawings showing what can be achieved by the grouping of terrace houses into pleasant urban streets and squares.

In the table for density and open space, gross density is expressed as persons per acre of housing area plus private and public open spaces, whereas in the County of London Plan gross density includes for the entire residential area, comprising community buildings, schools and open spaces.

education

Before the plan was prepared the Education Committee had already formulated its post-war programme in which it had made generous allowances for school sites and playing fields. Whilst the plan manages to provide for the buildings being on appropriate sites, the authors suggest that any increase on the allowance they have made for these purposes will, *inter alia*, necessitate an extension of the city boundaries up to the proposed outer ring road.

industry and tourism

The section devoted to industry is all too scanty. It occupies only two out of the 135 pages of text and illustrations. The opinion is expressed that No one with the true welfare of the city at heart wishes to see it become an " industrial town," as that term is usually understood, but the report does not make clear to what extent the city is The graphs showing a total of industrialized at present. 7,000 unemployed out of a population of 120,000 in 1939 raises several doubts as to Norwich's post-war prospects. Something more than the kind of amenities proposed in this plan is required in deciding the location of an industry. What solid advantages and potentialities has Norwich to offer to the industrialist? As a tourist centre and as a desirable place to live in, Norwich could be in 50 years (the period allowed for the carrying out of the plan) one of the most attractive towns in the whole country, but can the improvements and the reconstruction which the report proposes be carried out if Norwich's industry and employment revert to 1939 levels? There is little evidence in this report that behind the physical plan lies a plan for encouraging and maintaining industries essential to the prosperity of the city.

peace damage

War damage provides new opportunities for replanning and development, but it may encourage the shortsighted to further destruction of parts of our towns that are to-day regarded as anachronistic. Aesthetic values change rapidly, and the architect's view to-day is unlikely to be the view of the architect of the next generation. Nevertheless, the architect's view is essential in any planning scheme, and the contribution he can make is clearly brought out in this report.

The entrance elevation of the pair of prototype houses at Sutton.



THE WATES SYSTEM OF HOUSE CONSTRUCTION

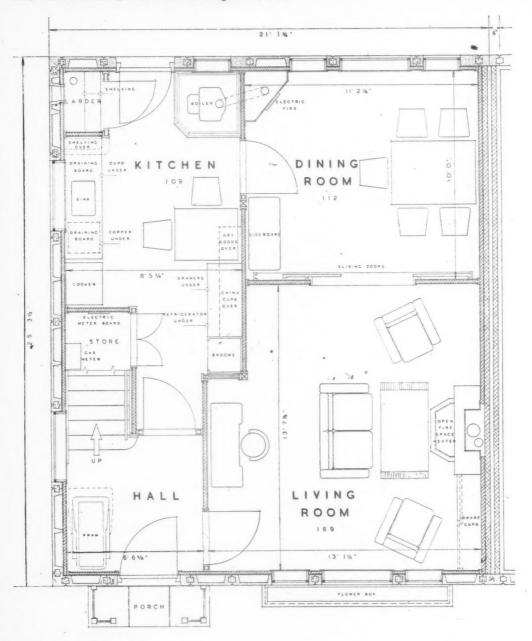
GENERAL—Wates Ltd. began work some time ago on a number of house designs in which they could use the knowledge and experience gained during the war, when they were largely concerned with the construction of prefabricated reinforced concrete floating craft, including the pon-

toons which carried the Mulberry Harbour's ten miles of floating pier.

ARCHITECT: KENNETH W. BLAND

The result is the pair of houses illustrated here, of 950 ft. super each, which have been erected as prototypes at Sutton Common Road, Sutton, to designs of the Company's architect, Mr. K. W. Bland, A.R.I.B.A. Wates have now been authorised by the Ministry of Works to begin pilot

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GROUND FLOOR PLAN

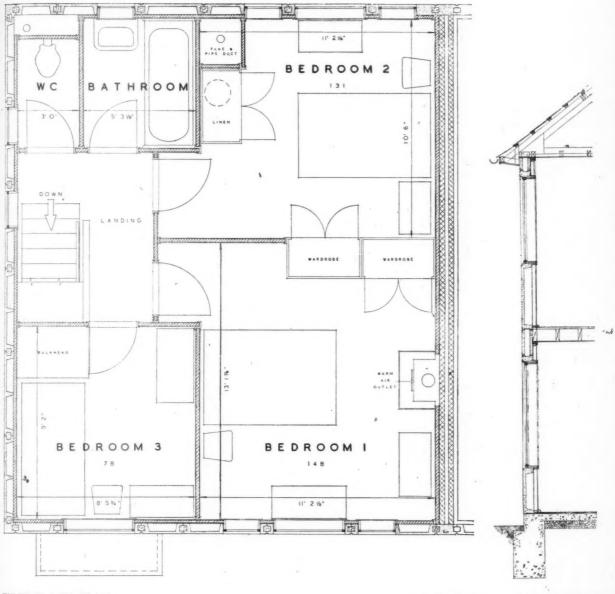
Scale : }" = 1' 0"

FI

construction of a number of these houses. The system of construction is flexible and can be applied to any type of plan.

CONSTRUCTION—The outer facing of the walls consists of reinforced concrete panel units of standard widths, comprised of walling units, stringer course units and eaves course units, of 2 ft. 0 in., 3 ft. 0 in., and 4 ft. 0 in. widths. Of the walling units, some are blank, some have windows or French casements already fixed in them, some are for external doors, etc. All are stiffened by ribs and so shaped that, when placed side by side, a cavity is formed at their joints to receive concrete poured without the use of shuttering. The units weigh up to 8 cwt., and are designed for erection by mobile cranes. Internal lining is of plaster board on light wood framing, thermal insulation being provided by a glass quilt which ensures a better insulation than an 11-in. hollow brick wall. An alternative method embodies the insulation in the panels at the works, in which case the plaster-board lining is

THE WATES SYSTEM OF HOUSE CONSTRUCTION



FIRST FLOOR PLAN

ON

[Scale 1"=1'0"]

WALL SECTION

fixed direct to the wall units and the wooden framing eliminated.

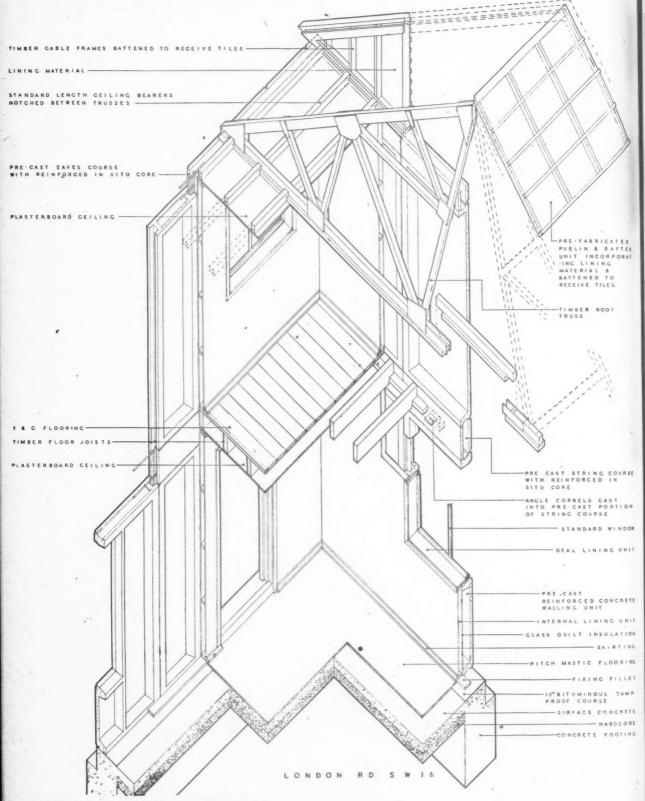
Internal partitions are of timber framing covered with plaster board built in units with doors and linings already fixed. Other types of partition can be used. Party walls are in two leaves

with a cavity between and are of 3-in. foamed slag blocks.

The roof is of timber trusses at 4 ft. 0 in. centres carrying special factory-made roofing units embodying purlins, rafters and tile battens. The gable frame is of similar construction. Roof and gable are covered with concrete tiles. Standard precut ceiling bearers span between the trusses and carry the plaster-board ceiling. A less costly type of roof could be used consisting of a $22\frac{1}{2}$ degree pitch covered with asbestos sheeting in place of the $37\frac{1}{2}$ degree pitch of the prototype houses.

The ground floor is of mass concrete with brown pitch mastic finish. The first floor is of timber joists, boarded floor and plaster board ceilings. Steel or concrete could be used as alternatives to the timber on the first floor. Flues are of cast iron enclosed in mild-steel casings. The casing of the living room fire embodies a warm air duct for providing background heating in the principal bedroom. Precast concrete flues could also be built.

The external finish of the walls has a textured finish which can be of various colours. Windows are of metal. 122] THE ARCHITECTS' JOURNAL for August 16, 1945



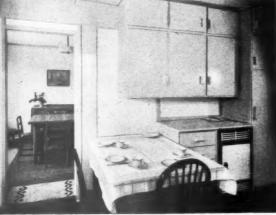
AXONOMETRIC SHOWING CONSTRUCTION

THE WATES SYSTEM OF HOUSE CONSTRUCTION

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Top left, the living room with dining room on the left, and below, the kitchen looking into the dining room. Top right, three progress photographs taken during construction. Right, the finished houses showing front elevation.

INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

PHYSICAL PLANNING

2058

Plan for New Haven

A PLAN FOR NEW HAVEN, CONNECTI-CUT: PLANNING WITH YOU. (Architectural Forum, January, 1945.) Results of six months' master planning project "to define problems and objectives of the city, analyse all important facts, and propose tentative solutions in form of directive plans."

The staff consisted of two trained planners, one civil engineer, one architect, one secre-tary, and occasional students from Yale University.

In the first three months one group concen-trated on the base map. A second group collected and analysed pertinent documents of all kinds, and many state and federal pub-lications. A third group undertook the most important task in reaching a solution— the understanding of the city and urban dis-trict and its problems. For that purpose the planners gathered information first hand from leaders in industry, bank presidents, heads of the chambers of commerce, factory workers, retail workers, and many others. While the second group advanced in its detailed study of official documents, compari-sons were made with the practical results of the work of the third group. The observa-tions of the latter—what the man on the street thought was wrong with his city—were almost always confirmed by the documentary evidence of population density, traffic flow In the first three months one group concen-

almost always confirmed by the documentary evidence of population density, traffic flow and other related factors. As in the analysis of any city, the planners soon discovered certain primary principles which had influenced the growth of New Haven from its beginning and with which there could be no compromise. These fac-tors acted as guiding lines for the new moter tors acted as guiding lines for the new master plan.

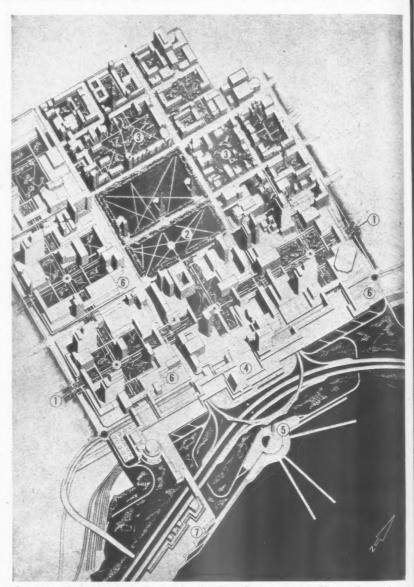
After making a broad, but careful, analysis of New Haven's problems, as a working After making a broad, but careful, analysis of New Haven's problems, as a working basis, the planning commission was able to formulate definite principles of action. It decided first that New Haven must find its prosperity in the traditional role of traffic distribution centre, whether by rail, road, water or air. In addition all trades accessory to this traffic should be encouraged—retail, wholesale, business banking light and heavy wholesale, business, banking, light and heavy industry. It became evident also that New Haven should regain its old position as a residential city, where life could be attractive residential city, where life could be attractive for all, protected from blight and adverse influences. New Haven's harbour should again play an important role in the industrial development of the entire regional area. Furthermore, the industrial area should be separated from the residential areas, and located near main transportation lines. Thus the city could be made into a correct unit. the city could be made into a compact unit,

the city could be made into a compact unit, with each part in its proper place and func-tioning in relation to every other part. To translate these principles into actuality, the most important job and the one around which the whole plan was developed, was the reviving of the centre of the city. Its area, being concentrated, contains all the vital ele-ments of the city administrative religiour ments of the city-administrative, religious,

institutional, business, banking, wholesale and retail trade, plus marketing, transportation, classification and storage. Convenient

access to the centre and easy traffic flow within it is therefore essential to the life of the whole city. To give this life the mean-ing which has been lost for so many year, it is also vital to re-establish the connection

of the city proper with the harbour. The re-design of the city centre, therefore, confirms the traditional importance of the cut, thus reuniting the two severed parts. Under this scheme, motor traffic is allowed only on the main streets of the centre which only on the main streets of the centre which mark the nine original squares. These primary streets underpass the secondary ones which are converted into landscaped pedes-trian walkways for shoppers. Store fronts open to these walkways and pedestrians are undisturbed by bus stops and trucking which are confined to the outer traffic streets. The centre avalkway attending creatively from the Green and ending in a terrace over the rail-road cut, re-establishes the original view of



Isometric of the proposed changes in the City Centre of New Haven, Connecticut. Traffic is limited to the major streets which pass under the new pedestrian walk-ways created from the secondary streets. Existing buildings are indicated by hatching; unhatched buildings will be new. The green (2) is an axis for the new plan, and is bordered on the west and north-west by Yale University (3) and by business and berking the destination of the second provides the seco banking buildings. A new Civic Centre on the east includes retail shops and near the harbour a general transportation terminal (4) and a helicopter field (5). (6) is a covered parking space and (7) is an amusement area. See No. 2058.



GREAT SNORING CHURCH, Near Fakenham, Norfolk.

THE church contains an interesting Royal Coat of Arms originally of Charles II which, in 1688, the then Rector altered into James II to indicate his opposition to the succession of William and Mary. It is possible that some people were opposed to the introduction of horizontal dampproof courses, less than 100 years ago, but no reasonable person would now neglect such

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a desirable provision—nor resort to the heroic measures of tearing out the base of a wall to repair its omission or decay when, as thousands of cases during the last thirty years have proved, the dampness is permanently shut out of the house by interior renderings of sand and cement made impervious with 'PUDLO' Brand waterproofing powder.



Used with Portland Cement in renderings or concrete to exclude or retain water.

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The word 'PUDLO' is the Registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Brand are manufactured or guaranteed

xxxvi] THE ARCHITECTS' JOURNAL for August 16, 1945

CHTERING Equipment

RESTAURANTS SNACK BARS



Vegetable Boiling Pans in a variety of sizes and types.



Hotcupboards and Carving Tables in a large variety of sizes with any combination of dishes to suit customers' requirements.

-We offer expert advice and co-operation on any kitchen equipment problems, we are manufacturers of a very extensive range of Catering Equipment, suitable for Hotels, Restaurants, Cafes, Hospitals, Institutions and Industrial Canteens. The services of our Engineers and **Planning Department** are at your disposal, and illustrated literature is available on request.



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Fish Frying Ranges fitted with automatic fuel control to pans with any number of pans to suit customers' requirements.



Automatic pattern Food and Vegetable Steamers in single or multi compartment.

Quality Built

CAFES · HOTELS · CANTEENS



the harbour. Near the cut a new traffic terminal is planned to serve train, bus and plane transportation. This connects with a helicopter field directly on the shore-line.

The master plan was submitted for discussion by the leading organizations and individuals of the city. Many were shocked by what they considered radical changes, and as a result of public discussion and opposition to some suggestions many shifts have been made. But the broad outlines of the plan remain the same. Changes in the design details of the City Centre, for instance, havenot destroyed the basic idea. More detailed studies under the outline already laid down have since been developed.

MATERIALS

2059

Pocket Price Book

SPONS' ARCHITECT & BUILDERS' POCKET PRICE BOOK, 1945 (72nd edition). Edited by Clyde Young and Bernard Engell. (E. and F. N. Spon, Ltd., 57, Haymarket, S.W.1, 9s. 0d.) Compact book with wealth of pricing data.

This book being in its 72nd edition, should need little introduction, but for those who are unacquainted with it, it is a small and compact book containing a wealth of pricing data.

The book opens with four tables. Table 1 shows the ratios of materials and labour in each trade. Table 2 gives a comprehensive list of the principal building, materials showing the pre-war price, the percentage increase, and the price at December, 1944, and Table 3 gives similar information in connection with a schedule of prices for measured work. The last Table shows the approximate percentage increase in the cost of each trade.

Following the tables is a short section devoted to the prices per foot cube of buildings (pre-war), a similar section with prices for rough approximate estimates (also prewar), and a list of current rates of wages, with the names of the towns in each wage grade.

The rest of the book, which constitutes the major portion, deals with constants of labour and materials and prices for measured work. The prices are pre-war, but the constants of labour and materials have, according to the directions, "been carefully revised to bring them in line with present-day conditions"; this statement must, however, be read in conjunction with the preface, which states that "age and dilation must be considered and an allowance made for this factor according to labour available. The additional cost in the labour item may vary from 20 per cent. to as much as 50 per cent."

A minor criticism is that the whole book hinges upon the preface and the notes under the conversion tables. The unwary would be less likely to be trapped if the headings throughout the book had made it plain that cube prices, approximate estimating prices, and prices for measured work were pre-war prices, and that labour and materials constants were current constants, subject to age and dilation.

A more serious criticism is that the editors have felt themselves unable to deal more fully with the age and dilation question (decrease in output due to inferior labour) which they admit may cost as much as 50 per cent. It is as well to remember the combined effect of decrease in output and increased wages, e.g., a reduction in output of one-third, coupled with an increased labour cost of one-third, gives an effective increase in labour costs of 100 per cent. Further, no mention is made of the current practice of working long hours involving overtime pay and the necessity of paying for travelling time, travelling expenses, and the guaranteed week, etc.

11

This may be a criticism of the complicated times in which we live rather than of the book itself as it is impossible to present in ready reckoner form all the present-day factors affecting cost. 'At the same time, as many of those returning from the Forces will have little knowledge of the problem, it is as well that the difficulties should be stressed.

LIGHTING

Electrical Installations

INSTALLATIONS—WIRING AND LIGHT-ING. H. T. Young. (Official Architect and Planning Review, December, 1944, p. 569.) Domestic electrical installations. Wiring, sockets, outlets, intake, control gear.

This is a very simple and straightforward description of electrical installations for lighting, mainly for domestic buildings. The author gives the fundamental principles on which lighting and wiring is based (recent American material in some ways is more satisfactory in respect of lighting); plug sockets are discussed; and the installation is analysed in terms of the intake of power, the control gear, distribution, circuit wiring, and outlets. The description of wiring systems is particularly lucid.

2061 Visual Data VISUAL DATA APPLIED TO LIGHTING DESIGN. P. Moon and D. E. Spencer. (Journal of the Optical Society of America, October, 1944, p. 605.) Fundamental data on contrast, visual angle, flux density for adequate vision, practical applications.

This paper collects and discusses certain fundamental data relating to contrast, visual angle and flux density. It is a little misleading, perhaps, to describe it as "applied to lighting design"; the authors are at work in a manner which removes them from the common sphere, and it would seem fairer to say that the paper contains data which is fundamental to some aspects of design. They are content to rest their argument upon an equation, and in that they are bound to miss that group—among whom come the designers who understand more easily a graphical representation. Among the few applications are these. An

Among the few applications are these. An equation is determined by which, if the minimum contrast is specified, and the reflection factor of the background is known, the required light can be determined. Another equation can be used to determine the minimum size object that can be seen at a given distance, or vice versa.

the minimum size object that can be seen at a given distance, or vice versa. Some practical conclusions are noted. For instance, 90-95 per cent. vision can be obtained even on the darkest materials, in direct sunlight, and for outdoor lighting generally vision ranges between 70 and 95 per cent. For artificial lighting vision will generally be less than 80 per cent.

2062

Visual Resolving Power

THE PHYSICAL AND PHOTO-CHEMICAL BASIS OF VISUAL RESOLVING POWER. G. M. Byram. (Journal of the Optical Society of America, October, 1944, p. 571.) Distribution of illumination in retinal images.

The paper discusses moderately advanced visual theory and experimental data. It is in two parts the first being concerned with the distribution of illumination in the retinal images of small objects; and the second with the more complex functions of the retina and the photo-chemistry of visual acuity.

2063	Daylight i	in	Schools
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THE SCHOOLS WE SHOULD BUILD. C. G. Stillman. (Architectural Design and Construction, December, 1944, p. 276.) Flexibility of layout. Improved daylighting.

daylighting. The author's well-known views on flexibility in school design are only outlined here. In essence the argument is that educational requirements and techniques are still changing rapidly, perhaps more rapidly than formerly, and finality in composition and design is undesirable in school buildings. He rightly warns against tooeasy acceptance of the short life theory of buildings, and against the idea that inferior materials can be used, even if limited life is anticipated. His point is essentially that the economic life should be "regulated" by the various factors in design.

The more interesting part of this note relates to lighting, because the author has obviously been much influenced by the recent studies in this field, *e.g.*, by the Lighting Committee (MOW Study Committee Report No. 12). The text contains nothing new, but several proposed school designs by Mr. Stillman are illustrated which demonstrate effectively the way in which pleasant design-points grow out of a refined scientific approach to daylighting.

QUESTIONS and Answers

THE Information Centre answers any

question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 45, The Avenue, Cheam, Surrey.

Factory Building Costs

Q Although 1 am still serving with the RAF, 1 am getting in a few post-war commissions. One of these is my first big job—a factory of about 12,000 ft. workshop space, making surgical needles and so on.

2064

I can get very little information of building costs, naturally, except the rough increase since 1939. Could you therefore give me some idea—it need not be accurate—of the pre-war cube cost of such a building? A short list of cube costs of similar buildings erected before the war would be useful.

The site is almost level, has public roads on two adjacent sides and a service road on a third. It is near the centre of a small town. The construction will be two-storey steel-framed, flat-roofed, and the walls faced largely with opaque glass or faience. There will be full electric services and central heating.

A According to *How to Estimate*, by J. T. Rea, steel-framed factory buildings with electric lighting and some heating cost 1s. 4d. to 1s. 10d. per foot cube before the war, or £100 to £200 per square.

Simple single-storey factories were, in fact, often erected from 7d. to 10d. per foot cube, but from your description we consider that Mr. Rea's figures are applicable, and would suggest that 1s. 6d. to 1s. 9d. per foot cube would be reasonable for a prewar figure, depending upon the proportion of actual factory space to administration offices, lavatories, etc.



Speeches and lectures delivered before societies, as well as reports of their activities, are dealt with under this title. which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.

RIBA Minutes

The following are notes from the recently published minutes of the RIBA Council:—

School Design and Construction: The report of the *ad hoc* Committee which was appointed in February, 1945, was approved by the Council, and will be published and sent to the Government departments concerned and other interested bodies.

Scale of Annual Salaries for Architects: The Council approved a revised Scale of Annual Salaries which supersedes the previous scale which was issued in June, 1937. Copies of the new scale are available to members on application.

Scale of Architects' Fees for State-aided Housing Schemes: The Council approved a revision to Clause C, House Design, which makes provision for the payment of fees for partial service e.g., where the architect is not required to carry out supervision of the work of local authorities who may desire their own officials to do the supervision.

Report of the Library Reconstruction Committee: The Council approved subject to the concurrence of the Finance and House Committee a report of the Library Reconstruction Committee dealing with the organization and working of the Library and proposing certain improvements and reorganization.

Prizes and Studentships: The Council approved the recommendation of the Board of Architectural Education that the competitions for the RIBA prizes and studentships be reinstituted for the year 1946. The competitions will be held on the usual lines during 1946, and the announcement of the Council's Deed of Award, followed by the criticism of the prizes, will take place in January, 1947.

The Prentice Bequest: On the recommendation of the Board of Architectural Education the Council has approved the conditions of the proposed scholarship for the study of Spanish architecture provided under the Prentice Bequest. The general object of the scholarship is to promote research and study with a view to a wider knowledge and understanding in Great Britain of the contribution of Spain to the art of architecture.

art of architecture. The Maintenance of Adequate Standards in British Standard Specifications: On the recommendation of the Architectural Science Board the BSI is being asked to issue an instruction to all BSI Committees urging that an adequate standard must be maintained in all British Standard Specifications and that this standard is to be estimated without regard to the exceptional conditions that may prevail in the immediate post-war period. If circumstances in the immediate post-war period forbid the fufilment of various British Standard Specifications in all respects the necessary adjustments can be made by a revision or exclusion of the offending clauses when referring to the British Standard Specifications.

Planning Procedure: On the recommendation of the Town and Country Planning Committee the Council decided to write to the Permanent Secretary to the Ministry of Town and Country Planning asking for information as to the administrative procedure being adopted by the Ministry.

Housing Work and the Employment of Architects: On the recommendation of the Town and Country Planning Committee the Council decided to write to the Minister of Health suggesting that in the interests of good design and appearance as well as sound planning and construction the granting of loans or subsidies to local authorities for housing should be conditional upon their employing or engaging architects for their permanent housing work.

Height of Rooms: Following a report from the Housing Committee the Council decided to ask the Minister of Health if he would give favourable consideration to the relaxation by local authorities of their byelaws to allow the height of rooms to be 7 ft. 6 in. where deemed appropriate.

British Standard Specifications: On the recommendation of the Co-ordinating Committee of the Standard Specifications Committee of the Standard Specifications Committee the Council have informed the British Standards Institution that representatives of the RIBA on Committees of the BSI are appointed solely to assist in the preparation of British standards and are not authorised to represent the RIBA on matters relating to the use and special application of those standards, and that questions affecting the policy of the RIBA should not be addressed to individual representatives but to the RIBA. Payment of Fees by Instalments: The Council approved the publication in the Journal of the following note:—" Payment of Fees by Stages: Owing to the present restriction on general building work it will be some time before building work it will be some time before building work it will be some time before building work of their projects. The architects thus employed should, at the time of their employment, make proper arrangements with their clients on the basis of the RIBA Scale of Charges for payment of fees as their work proceeds. In normal times it was the usual and proper practice for such stage payments to be made, and there is no reason in these abnormal times to vary that practice. In cases where there is a written agreement between client and architect payment by stages is always provided for, and the draft agreement prepared by the RIBA for state-aided housing work contains such a provision. The attention of members is called to this matter so that where there is not the formality of a written agreement a clear understanding should be arrived at with their clients as to the payment of fees."

Prime Cost Contract for Use in the Repair of War Damage: The Council considered a draft Form of Prime Cost Contract for Use in the Repair of War Damage which had been prepared by the Joint Contracts Tribunal, and in order to avoid undue delay in publication it was agreed that the Practice Committee be authorised to deal with the matter on behalf of the Executive Committee and the Council.

Electrical Signs on Buildings: The Town and Country Planning Committee has been asked to consider a suggestion received from the Electrical Sign Manufacturers' Association on the subject of improving the standard of electrical signs for postwar use and the need for designing modern buildings to incorporate neon and other lighting fittings instead of leaving them to be fixed haphazard after the building has been erected.

Practice Lectures: The Public Relations Committee and Officers of the Board of Architectural Education have been asked to collaborate in the preparation of a detailed programme of lectures intended to help the younger members of the profession in the sphere of professional practice.

practice. Assessors' Fees in Competitions for the Development of Housing Estates: The Council approved a suggested Scale of Fees for the guidance of Assessors appointed in connection with competitions for the development of housing estates. Copies of the suggested Scale will be available for Assessors who are appointed for this type of competition. Council for Education in Appreciation of

Council for Education in Appreciation of Physical Environment: The Council has made a grant of £10 to the CEAPE.

Map Symbols for Social Surveys: On the recommendation of the Architectural Science Board, the Council decided to ask the British Standards Institution to consider the preparation of a British standard for map symbols for social surveys.

RIBA Houston Maintenance Scholarship: A scholarship of £100 per annum was awarded to Mr. H. W. D. Burgess, of Treforest, Glamorgan.

Was awarded to Mr. H. W. D. Burgess, or Treforest, Glamorgan. *The Ashpitel Prize*, 1944: The Ashpitel Prize, 1944, was awarded to Mr. Kenneth W. Bland, Student, who passed the Final Examination in December, 1944.

Examination in December, 1999. Appointments: RIBA Codes Committee on External Walling, Internal Walls and Partitions, R. S. Nickson, (F). Meeting with the Technical Consultative Group of the Codes of Practice Committee, P. V. Burnett (F). Building Industries National Council, Darcy Braddell (F) and Henry Braddock (A) in place of J. L. Denman and Sydney Tatchell. Women's Advisory Housing Council, Mrs. Howard Robertson (A).

RIBA

Examinations

The RIBA Intermediate Examination was held in London, Manchester, Leeds, and Belfast from May 25 to 31, 1945. Of the 147 candidates examined, 57 passed and 90 were relegated. The successful candidates are as follows:—

Ainsworth. Edward N.; Bateman, John F.; Bellears, Edwin; Bennis, David; Bolton, John J.; Bosanquet, Peter H.: Boucher, Paul W.; Bowles, Geoffrey E.; Bright, Dennis W.; Browning, Eric C.; Burdis, John F. C.; Carter, John B.; Chapman, Maurice A.; Cox, Gilbert H.; Currie, Betty (Miss); Crux, Michael R. (subject to approval of remaining Testimonies of THE ARCHITECTS' JOURNAL for August 16, 1945 [XXXVII



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On Active Service

Electricity is basic in building

Electricity has become the *mainpower* of production; and new and better homes will be the main necessity of peace production. In building and equipping these homes the cheap flexible power of Electricity will be a requirement as basic as bricks, as sure as steel, as capable as concrete. In each future dwelling the universal versatility of Electricity will cause it to be not an adjunct to, but the presiding genius of the home.

For information and advice about the many new uses and greatly increased adaptability of Electricity consult your Electricity Supply Undertaking or the British Electrical Development Association, 2, Savoy Hill, London, W.C.2.

The Electrical Section at the Building Centre, Maddox Street, London, W.1, provides interesting illustrations of electrical applications in domestic and industrial premises. Study); Day, John B.; Driver, Margaret E. P. (Miss); Durrant, Sidney J.; East, Barrymore W.; Evans, John H.; Fitch, Alan; Fletcher, Dorothy M. (Miss); Ford, Frederick F.; Goodridge, Sydney P.; Guard, Wilson P.; Hampton, Peter; Hill, John G.; Kench, A. Joseph; Kirby, Anthony J. G.; Lavender, Mavis E. (Miss); Lock, June (Miss); Jovejoy, Derek A. W.; Maples, Mary C. (Miss); Martin, Beryl A. (Miss); Mellor, Alexander J.; Morgan, Robert S.; Mullins, William F.; Nellist, Arthur I.; Paine, Charles N.; Park, John B.; Parrish, Horace; Phillips, Roland O.; Preston, Alan M.; Prichard, Victor H. S.; Roscoe-Hudson, Alan; Scott-Williams, Gerard; Strubbe, John A. T.; Tanner, John W.; Taylor, Ivor A. T.; Thompson, Eunice (Miss); Thornley, Roy D.; Tischler, Franz; Turner, Clifford W; Vivian, John V. J.; Wickens, Dennis G.; Zargel, Albert. The following candidates have also com-

The following candidates have also completed their qualifications and have now passed the Intermediate Examination:— Adams, George R.; Pitts, James N.

RIBA New Members

Fellows: Blackett, Johnson (Newport); Poulton, Denis, Dip. Arch. (Liverpool) (London); Powell, Leslie Charles (Chesham, Bucks); Price, William Harold (Bristol); Burd, Thomas (London). Overseas: Macartney, Robin Halliday (Nicosia, Cyprus).

Associates: Astins, Norman Percy (Bath, Somerset); Bland, Kenneth William (Epsom, Surrey); Bransgrove, Charles Alfred (Whitton, Middlesex); Branson, Norman Richard (Brewood, Staffs); Carlin, William

Patrick (Sutton Co. Dublin): Carter. (Kingston-on Thames); Mathias William Christy, Roy Thompson, B.Arch. (Liver-pool) (University of Liverpool) (East Molesey, Surrey); Crow, Harold Victor Molesey, Surrey); Crow, Harold Victor (Carshalton, Surrey); Dixon, Miss Beryl May (Brooklands, Cheshire); Eastaugh, Donald Hugh (The Polytechnic, Regent Street, London) (Beckenham, Kent); Elliott, Miss Thelma Hermione (University of Sheffield) (Rotherham); Garlick, Alfred (London); Godtee, Frederick Alan (Chepstow, Mon.); Hare, Albert Frederick (London): Higgin John, Din, Arch. (Liverpool) (Uni-Mon.); Hare, Albert Frederick (London): Higgin, John, Dip. Arch. (Liverpool) (Uni-versity of Liverpool) (Preston); Jones, Thomas Maldwyn (Bury, Lancs.); Kelsey, Norman George (Southsea Hants); King, Ernest Platton (London); Lacey, William Daniel (Enfield, Middlesex); MacKenna, Percival Charles, B.Arch. (University Col-lege Duklie) (Duklie). McKright Cordor lege, Dublin) (Dublin); McKnight, Gordon Kempson (Belfast); McRobie, Alexander (Aberdeen); Moore, Ernest Roy (Stock-port, Cheshire); Nightingale, George port, Cheshire); Nighungale, George William (Birmingham); Pearson, Mrs. Helen Sophronia, B.A. (Arch.) Lond. (Uni-Versity of London) (London, George Edgar John (London): Stevens, George Edgar (Birmingham); Talbot, Edwin William (Hat-field, Herts); Thompson, Addison Roy (Sheffield); Wilkinson, John George, B.Arch. (Liverpool) A.M.T.P.I. (University of Liverpool) (Bath); Williams, Thomas Denby (Bradford, Yorks.); Wilson, Ian Burns (Shortlands, Kent); Wright, Keith (Manchester); Wright, Lance Armitage versity of London) (London); Smyth, Denoy Burns (Shortlands, Kent), (Manchester); Wright, Lance Armitage (Bristol). (Overseas): Baldwinson, Arthur Norman (Victoria, Australia); Lee, William Lambert (Melbourne, Australia); Agg, Lambert (Lusaka, Northern Melbourne, 'Austra (Melbourne, 'Austra (Lusaka, Rhodesia).

Licentiates: Beardmore, Michael Charles Broady (Wallasey, Cheshire); Bee, David Proctor (Edinburgh); Burgess, Cecil Arthur Wellington (London); Casse, Ronald John (London); Frankland, Richard (Clitheroe, Lancs); Glendinning, Colin William (London); Hartwell, Albert (Wolverhampton); Judge, Raymond Frank Aspinal (Lincoln); Kinton, Ronald Kirtley (Capt. R.E.) (Leicester); Penn, -Raymond Charles (Nottingham); Sargent, John Francis, M.M. (London); Stevenson, Ralph Webber (Eastbourne); Thomas, John Edgar (Llanelly, Carm.); Thorne, Rex (Lieut.-Commander, R.N.V.R.) (Poole); Williams, Harola (London).

RIBA

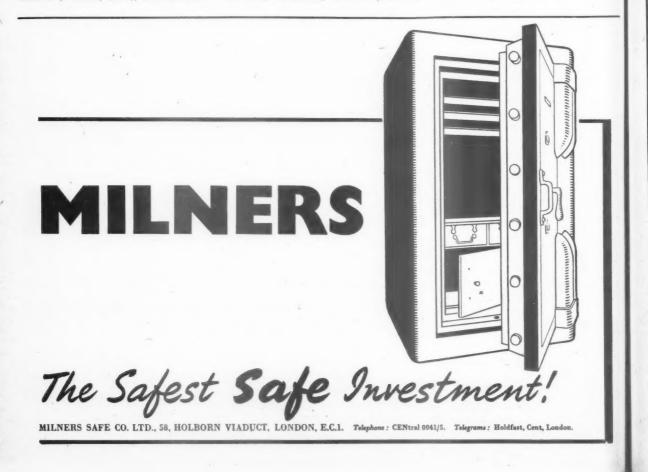


the RIBA has issued the following statement regarding its CARD INDEX FOR POST-WAR EMPLOYMENT.

In order that the fullest possible assistance may be given to those requiring employment on demobilization or release from national service, it is important that notice should be sent to the Secretary RIBA immediately a man or woman becomes available for employment. Those who have already completed and returned questionnaires A and B should give notic of any change in their qualifications or plans for post-war employment. Those who have not submitted questionnaires should do so at once. The necessary forms may be obtained on application to the RIBA. (See page 111.)

ANNOUNCEMENT

Mr. Herbert Kenchington, F.R.I.B.A., chartered architect and surveyor, has reopened a London office at 130, Crawford Street, Baker Street, W.1.



THE ARCHITECTS' JOURNAL for August 16, 1945 [xxxix

CAST IRON IS A BUILDING



Above : Cast Iron. Panels in the bays of the new Adelphi Building on the Embankment, London. Architects: Messrs. Collcutt & Hamp, FF.R.I.B.A. Contractors : Gee Walker & Slater.

Windows : Crittall Manufacturing Co.

Iliam amppinall Capt., harles M.M. East-

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> The G.P.O. Telephone Kiosk designed by Sir Giles Gilbert Scott, PP.R.I.B.A. and made of cast iron.

PROPOSITION

Thousands of miles of pipes and gutters, millions of stoves and fireplaces, and such familiar everyday things as letter and telephone boxes are made of cast iron. But there are hundreds of other uses in modern building for this old, tried, but up-to-date material. One example is shown here: there are many others.

ISSUED BY THE BRITISH IRONFOUNDERS' ASSOCIATION 145 ST. VINCENT ST., GLASGOW, C.2

FACTS ABOUT THE BUILDING USES OF CAST IRON

The British Cast Iron Research Association has a Building Uses Department which is available for dealing with enquiries from architects and builders about cast iron. Mr. Derek L. Bridgwater, F.R.I.B.A., is Consultant to the department.

Enquiries should be addressed to THE BUILDING USES DEPARTMENT, BRITISH CAST IRON RESEARCH ASSOCIATION Alvechurch, Birmingham



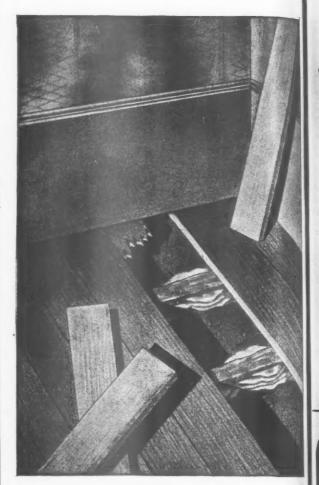


The SMITH TWO-WAY reinforced fireprooffloor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks.

The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Limited quantities of TRIANCO TELESCOPIC CENTERS are now available for use in connection with suspended floors of all types. Write or phone without delay.





Another wall built without BRIGGS AQUALITE Camp course

Write

Briggs Aqualite Dampcourse keeps out damp and dry rot as long as the bricks and mortar hold together. The pure bitumen, moulded round the sealed-in, bitumen-saturated core of untearable canvas, presents a permanent damp-proof barrier. "Damp-proof course to be BRIGGS AQUALITE" is the standard specification of every wise architect and builder.

WILLIAM BRIGGS AND SONS LIMITED, DUNDEE London—Vauxhall Grove, S.W.8. Also at Glasgow, Edinburgh, Liverpool, Bristol, Aberdeen, Norwich and Leicester. THE ARCHITECTS' JOURNAL for August 16, 1945 [xli

NG For the Housing Estate - Mansionor Luxury Flat Sanders Quality Electrical products provide everything that is required for the control of Electrical Equipment :---**Compact Distribution Units** Splitter Units Fuseboards — Switch Fuses **Cooker Control Units** Sockets - Plugs Switch Sockets SANDERS WEDNESBURY Write for List No. 137, WM. SANDERS & CO. (WEDNESBURY) LTD. WEDNESBURY · STAFFS. MODERN CATERING EQUIPMENT Designed and constructed by skilled 0 craftsmen with lifelong experience of the requirements of the Trade. We respectfully offer our expert services in the preparation of layout plans of any type of installation in which you are interested. 0

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Don't be SHORT SIGHTED when buying materials!

The Decorator with a keen outlook is always a Smith & Rodger customer. He knows that S. & R. Paints and Varnishes, while standing up to rough usage, heat, etc., are also protecting his reputation. These famous paints put the

34, ELLIOT STREET

finish in the finished jobthey will justify your judgment.

Products made by Smith & Rodger are Vitamatt Flat Paint, Natural White Paint, Stoper White Oil Varnish, Quick Drying Varnish Paint, Vitamel, Waldura Washable Distemper, and Solvit for removing Varnish and Paint.

Grams : "Smith, Rodger, Glasgow"

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The mentioning of goods in our advertisement does not imply that they are available without restriction. The advertisement is intended to keep our name and goods before our customers during a period, when many items are unobtainable or reserved for essential purposes.

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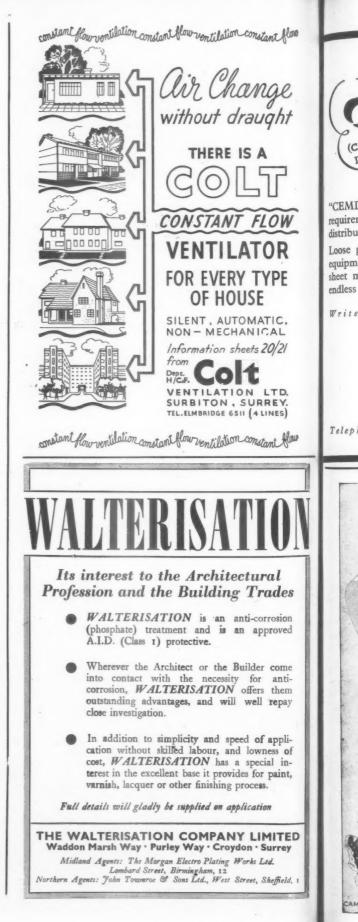
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GALVANIZED TANKS CYLINDERS & CALORIFIERS



Many thousands have been supplied to all Government Departments since 1939.



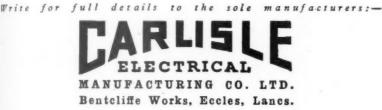


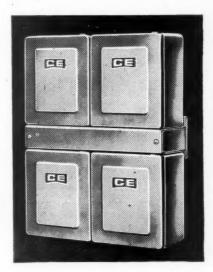
THE ARCHITECTS' JOURNAL for August 16, 1945 [xliii

(CARLISLE ELECTRICAL MAINS) A NEW, compact ELECTRICAL MAINS and expandable system for the intake and distribution of electricity-DISTRIBUTION UNIT)

"CEMDU"—Carlisle Electrical Mains Distribution Unit will fulfil your requirements for neater and more flexible arrangements for the intake and distribution of electricity in both large and small buildings.

Loose gear and trailing wires simply don't exist with the "CEMDU": all equipment and wiring is enclosed in the compact and attractively designed sheet metal cases and trunking, which provide easy access and facilities for endless extensions with the minimum of work.





The "CEMDU" incorporates latest type C.E. "LATRALOK" Fuses which are rewirable. Main Switch is the entirely new "C.E." Rotary Pattern and is of liberal rating.

Telephones: ECCLES 1691/2/3/4 Telegrams: "Carlectric," Eccles



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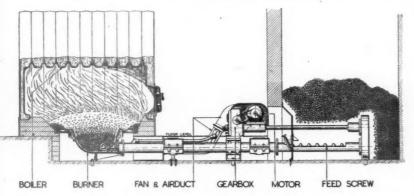
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THE ARCHITECTS' JOURNAL for August 16, 1945 [xlv

CLEAN HEAT — AUTOMATICALLY SUPPLIED Post-war building demands present-day planning; the provision of heating facilities which are both efficient and economical as well as ensuring the elimination of all unnecessary dirt should

both efficient and economical as well as ensuring the elimination of all unnecessary dirt should be the object of every specification. The Prior Bunker Flow Automatic Stoker is suitable for all types of boilers, and can be fitted to almost any stokehold. Its main features are summarised below; fuller details will gladly be sent on request.



CLEANLINESS

No coal in Boilerhouse

SAVES LABOUR

No Hopper to fill

SAVES SPACE

Leaves Stokehold floor clear

Special design under Patent 55/321 gives great occessibility and permits a wide range of lowgrade fuel to be used.

PRIOR STOKERS LIMITED

I-3 BRANDON ROAD, LONDON, N.7

200 St. Vincent Street, Glasgów, C.2

[Applications for post-war employment as Sales Engineers can now be considered]



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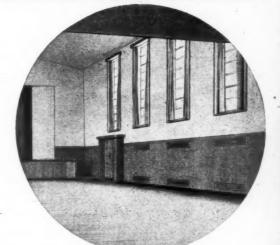
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of school heating

Warmth and moving air are two features on which all authorities are agreed as being essential to a healthy atmosphere. Concealed Vectair units provide these with unusual economy . . . and to the architect of schools the fact that Vectairs can be built into walls and fitments as an integral and almost invisible part of the structure is also of considerable importance. From the point of view of hygiene as well as appearance Concealed Vectairs are to be preferred to projecting radiators or pipe coils which are difficult to harmonise with the surrounding surfaces and also become depositories for dust and refuse in the space between wall and radiator.



Dartford County School for Girls, W. H. Robinson, F.R.I.B.A., County Architect, Kent.

An illustrated brochure, V/A17, giving full details will be sent on request. For Vectair Heating for industrial purposes send for Univectair Brochure U/A1 and Projectair folder P/A1.

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xlvi] THE ARCHITECTS' JOURNAL for August 16, 1945

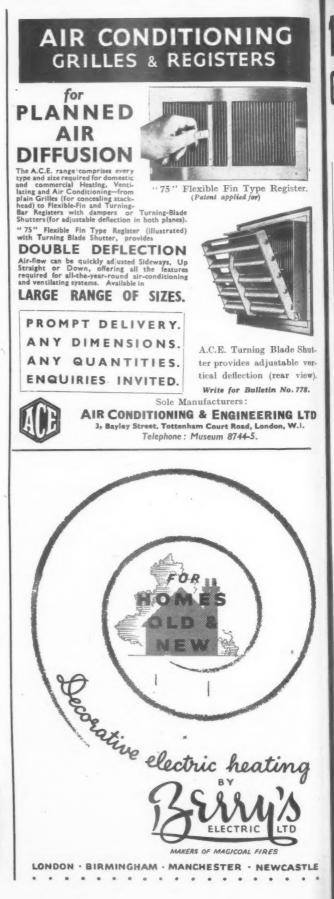


QUALITY OF PERSONAL PRIDE

The quality of personal pride in production has always animated the house of Nobles & Hoare. Supplies of raw materials have been very scarce and difficulties manifold; but with the gradual return to more normal conditions products more closely approximating to the pre-war standard and in freer supply, are gradually becoming available. Amongst these are the following well known Nobles & Hoare lines:

- "NOBELIN" Enamel Paint for interior or exterior use.
- "ALBAMATTE" Flat Oil Paint.
- "NOBLEX" Washable Distemper.
- "ALBAGLOSS" a perfect White Enamel drying with a hard elastic film of beautiful lustre.
- **"BODICOTE**" ready mixed flat white under coating with exceptional degree of obliteration.
- **VARNISHES** for interior or exterior use.





OR

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London Office : Artillery Row, S.W.I Telephone : ABBey 1547-8 THE ARCHITECTS' JOURNAL for August 16, 1945 [xlvii

plywood

has made the Mosquito possible. Before the war, plywood made all sorts of strong, light, reliable and decorative things possible. All sorts of new things have been learnt about plywood during the war. All these new ideas and new techniques will be available for the reconstruction period ahead. We know what plywood can do, and what it can't do, and our technical department will be at the service of all users. We have been making good plywood for 50 years, and we are manufacturers of Plymax, the metal-faced plywood.



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xlviii] THE ARCHITECTS' JOURNAL for August 16, 1945

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advi. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper. Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey

Surrey.

Public and Official Announcements

Six lines or under, 88.; each additional line, 1s. The Incorporate Association of Acelliteria and an analysis and a surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDERSS 75, EATON PLACE, LONDON, S.W.1. TEL.: SLOAME 5615. 991 COUNTY BOROUGH OF BIRKENHEAD.

Applications are invited for the following

 Applications are invited for the following

 (a) One SENIOR TOWN PLANNING

 ASSISTANT; salary £450 per annum, plue

 One TOWN PLANNING ASSISTANT;

 ASISTANT; salary £450 per annum, plue

 Domas, at present £59 16s, per annum, plue

 One TOWN PLANNING ASSISTANT;

 Salary £375 per annum, plue bonue, at present

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Town Hall, Birkenhead. 25th July, 1945.

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

CITY ENGINEER'S DEPARTMENT. Applications are invited for the post of CHIEF ARCHITECTURAL ASSISTANT, at a salary of £1,000 per annum, plus war bonus. Applications will be considered only from persons with first-class qualifications, who have had considerable experience in the design and erection of large Municipal and Educational Buildings, and who have passed the examination for Associate Membership R.I.B.A., and are registered Architects. The successful candidate will be required to to the Corporation's Superannation Fund, and to reside within the City boundary. Applications and experience, together with copies of three recent testimonials, are to be received by Mr. R. M. Finch, O.B.E. M.Inst.C.E., City Engineer and Surveyor, Guildhall, Notting-ham, not later than Monday, August 7th, 1945, in a sealed envelope, marked "Chief Archi-tectural Assistant". J. E. RICHARDS.

J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham. 28th July, 1945.

METROPOLITAN BOROUGH OF POPLAR.

APPOINTMENT OF ASSISTANT ARCHITECT.

ARCHITECT. Applications are invited for the position of Assistant Architect on the permanent staff of the Council, at a commencing salary of 2550 per anyon, rising by one annual increment of 255 to 2575 per annum, plus current cost of living bonus (at present amounting to 23s, per week). Candidates should be Associates of the Royal mathematical and the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular mathematical angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular to a staff of the angular of the angular the angular of the angular of the angular of the angular the angular of the angular of the angular of the angular the angular of the

S. A. HAMILTON, Potlar Town Hall, Bow Road, E.3. 30th July, 1945.

BOROUGH OF WALTHAMSTOW.

BOROUGH ARCHITECT'S DEPARTMENT. ARCHITECTURAL AND PLANNING ASSISTANTS. (Permanent Appointments).

Applications are invited for :--(a) ASSISTANT ARCHITECT. Candidates must be experienced in the design of modern housing estates. Salary, £420 x £15-£465 per annual (Grade "C"). (b) ARCHITECTURAL ASSISTANT. Candi-dates should have experience of Municipal Work. Salary, £300 x £15-£345 per annum (Grade "A").

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"A").
 (c) PLANNING ASSISTANT. Candidates must be experienced in the preparation of Reconstruc-tion Schemes. Salary, £420 x £15—£465 per annum (Grade "C").
 (d) TWO PLANNING ASSISTANTS. Candi-dates should have experience of Municipal Work. Salary, £300 x £15—£345 per annum (Grade "A").

A"). Preference will be given to candidates possess-ig an appropriate Architecture or Planning ing

War bonus of £59 19s. 3d. per annum at present is payable in addition to the above-mentioned

is payable in addition to the above-mentioned salaries. All the above appointments are permanent, and are subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination. The appointments will be in accordance with the Corporation's condition of service as regards to one month's notice on each side. Applications, stating age, qualifications, and experience, accompanied by copies of three recent the appointment, not later than 12 non on Saturday, ist September, 1945. Canvasing in any form will be disclose any relationship to ally member of official of the Council.

G. A. BLAKELEY, ., Town Clerk. Council.

Town Hall, Walthamstow, E.17.

COUNTY BOROUGH OF SOUTH SHIELDS.

APPOINTMENT OF ARCHITECTURAL ASSISTANT (TEMPORARY).

Applications are invited for the above appoint-ment at a salary of £375 per annum, rising on satisfactory service by annual increments of £15 to a maximum of £420 per annum, plus war bonus, at present 23s, per week. Candidates must be qualified as Associate Members of the Royal Institute of British Archi-tects, and have good general architectural ex-perience.

perience.

The appointment, which is for an indefinite perience. The appointment, which is for an indefinite period. is subject to one month's notice in writing on either side, and will be subject to the pro-visions of the Council's Superannuation Act. The successful candidate will be required to pass satis-factorily a medical examination. Applications, suitably endorsed, stating full par-ticulars of age, qualifications, etc., and accom-panied by no more than three recent testimonials, should reach the under-mentioned not later than the 23rd August, 1945. Canvassing, either directly or indirectly, will disqualify.

Canvassiı disqualify.

HAROLD AYREY, Town Clerk

Town Hall, South Shields.

BOROUGH OF SOUTHALL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

ASSISTANT. Applications are invited for the appointment of an Architectural Assistant (Temporary) in the Borough Engineer and Surveyor's Department. Salary, 27 78. per week. Candidates should be Registered Architects, and preference will be given to members of the Royal Institute of British Architects. Experience in preparation of working draw-ings, specifications, surveying and setting-out in connection with Housing works is desirable. Applications must be submitted on the official form, which should be obtained from and returned to the Borough Engineer. Town Hall, Southall, with copies of three recent testimonials, not later than noon on Angust 21. 1945. M. LINDSAY TAYLOR, Town Clerk's Offices, South Road

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Town Clerk's Offices, South Road Southall, Middx.

COUNCIL FOR THE PRESERVATION OF RURAL ENGLAND, SHEFFIELD AND PEAK DISTRICT BRANCH.

ASSISTANT SECRETARY required. Prefer-ably qualified Architect. trained in town and country planning. Must be enthusiast on aims of C.P.R.E. Send names of two referees, and not more than three testimonials. Salary 2250, rising to 2300. Apply Mrs. Haythornthwaite., Hon. Secretary, Endcliffe Vale House, Sheffield. 10. 520 542 HERTFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF DEPUTY COUNTY ARCHITECT AND ASSISTANT ARCHITECTS

Applications are invited for the following

appointments :--(a) DEPUTY COUNTY ARCHITECT. Salary, £1,000 per annum.

(a) DEPUTY COUNTY ARCHITECT. Salary, £1.000 per annum.
(b) CHIEF ASSISTANT ARCHITECT. Salary, £300 per annum.
(c) SENIOR ASSISTANT ARCHITECTS (2).
Salary, £600 to £650 by £25 annual increments.
(d) ASSISTANT ARCHITECTS (4). Salary, £200 to £480 by £20 annual increments.
(e) JUNIOR ASSISTANT ARCHITECTS (4).
Salary, £365 to £410 by £15 annual increments. In each case the salary carries the cost-of-living bonus, which is at present £59 16s. per annum. Candidates for each post must be members of the R.I.B.A., and in the case of appointments (a) (b) and (c) the successful candidate must provide and maintain a motor-car, in respect of which a car allowance will be paid on a scale approved by the County Council from time to time.

The appointments will be subject to the Local Government Superannuation Act, and successful applicants will be required to pass a medical examination. Applications, stating age, training, experience and qualifications, together with three refer-ences, should reach the undersigned not later than 21st September. Applications from ex-Service men and these now in the Forces will be welcomed, and in the latter cases the position with regard to demobilisation should be stated. Canvassing will be a disqualification. ELTON LONGMORE, Clerk of the County Council,

DURHAM COUNTY COUNCIL.

COUNTY ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL AND QUANTITY SURVEYOR'S ASSISTANTS.

Applications are invited for the following tem-

the payment of wages or satary in the case or sickness. Applications, giving particulars of age, experi-ence, and qualifications, previous and present appointments, etc., and enclosing copies of not more than three recent testimonials, should be forwarded to the undersigned not later than Saturday, 25th August, 1945. Envelopes should be marked appropriately "Architectural Assistant" or "Quantity Sur-veyor's Assistant." WM. J. MERRETT, County Engineer, Surveyor and Architect. County Surveyor's Office, 43, Old Elvet, Durham, 7th August, 1945.

7th August, 1945.

BOROUGH of ROYAL TUNBRIDGE WELLS.

BOROUGH of ROYAL TUNBRIDGE WELLS. ARCHITECTURAL ASSISTANT, temporary, required by the Borough of Royal Tunbridge Wells. Tandidates must have been born before 1923, and should be A.R.I.B.A., or hold an equivalent it previous experience in municipal housing. Salary, 4450 per annum, plus cost-of-living bonus, at present £59 16s, per annum. Com-mencing salary according to qualifications and experience. Appointents bhould write, quoting EA.1212XA, 40 the Ministry of Labour and National Service, Appointents Department, Contral (T. and S), Register, Room 5, 17, Sardinia Street, Kingsway, London, W.C.2, for the necessary forms, which should be returned completed on or before 20th August, 1945. DOHN WHITEHEAD,

JOHN WHITEHEAD,

Town Hall, Tunbridge Wells. 2nd August, 1945. 533

CITY AND C CHIEF A

Applications a Chief Archi Architect's Su Applicants Institute of that candidat relating to t the alteration buildings. The appoint risions of th Act, 1937. The comme

risions of th Act, 1937. The comme rising, by s per annum, ance with t 259 16s. per Printed pa obtained fro tions should tember, 1945

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CITY AND COUNTY OF NEWCASTLE-UPON. TYNE EDUCATION COMMITTEE.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant in the Education Architect's Sub-Department. Applicants must be members. of the Royal Institute of British Architects. It is desirable that candidates should have experience in work relating to the design of new schools, and in the alteration, extension, and upkeep of school mildings. ding

The appointment will be subject to the pro-isions of the Local Government Superannuation ions of 1937.

risions of the Local Government Superannuation dc, 1337. The commencing salary will be £550 per annum, fring, by annual increments of £25, to £600 per annum, plus cost-of-living bonus, in accord-ance with the City Council scale (at present £99 16s, per annum). Printed particulars of the appointment may be obtained from the undersigned, to whom applica-ions should be sent not later than 14th Sep-tember, 1945. THOS WALLING.

THOS. WALLING, Director of Education. City Education Office, Northumberland Road, Newoastle-upon-Tyne, 2. 534

NEWTON ABBOT URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited for the appointment of Architect in the Engineer and Surveyor's Office, at a salary of 2425-2475, plus Whitley Council bonus of £59 16s. Applicants must be exempt from National

Service. The appointment will be subject to the pro-visions of the L.G. Superannuation Act, 1937, and determinable by one month's notice on either

Candidates must be qualified as Associates of he Royal Institute of British Architects, with ansiderable experience in Housing and similar work

work. Applications, stating age, previous experience, etc., should be sent to the Engineer and Surveyor, Town Hall. Newton Abbot, on or before Tuesday, 21st August, 1945. If desired, a temporary bungalow will be offered as soon as these are received, failing other accommodation being found in the meantime. HORACE EVANS, Tourn Clark

Town Clerk. Town Hall, Newton Abbot. 3rd August, 1945. 540

CITY OF St. ALBANS.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS.

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 (b) ARCHITECTURAL ASSISTANT. Salary,
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Town Clerk's Office, 38, St. Peter's Street, St. Albans. Angust 1945 531

THE ARCHITECTURAL ASSOCIATION (INCORPORATED).

SCHOOL OF ARCHITECTURE.

The Council of the Architectural Association annonces vacancies for four full-time STUDIO ASTERS for teaching duties under the Principal, Mr. B. Gordon Brown, A.R.I.B.A. Sindio Masters are required to be Associates of the R.I.B.A., and should have at least seven years' experience in architectural practice. Pre-tious teaching experience is not essential. At least one of the vacancies calls for metalised knowledge and experience of building materials and construction. Applications should be in writing, and

Applications should be in writing, and ddressed to the undersigned, by the 31st August, H. J. W. ALEXANDER. 551

36, Bedford Square, London, W.C.1.

APPOINTMENT OF COUNTY ARCHITECT.

The Derbyshire County Council invite applica-tions for the appointment of County Architect from Architects registered in accordance with the Architects' (Registration) Act, 1931. Salary, £1,400 per annum, rising by £100 per annum to £1,600 per annum, plus coet-of-living bonus and a travelling allowance according to the County Scale. The appointment will be subject to the pro-visions of the Local Government Superannuation Act, 1937.

Act, 1937. Conditions of appointment and forms of application may be obtained from the under-signed, to whom applications should be sent not later than 3rd September, 1945. H. WILFRID SKINNER, Clerk of the County Council. County Offices, Derby. 9th August, 1945. 560

BOROUGH OF SCUNTHORPE.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Borough Engineer and Surveyor's Department, at a salary of £400 per annum, plus cost-of-living bonus, at present £59 16s. per annum. The appointment will be ungraded at present, but will become graded if and when the Corporation adopt the East Midlands Provincial Council Scale. Applicants should hold a recognised Archi-tectural qualification and have had experience in Housing.

Honsing

The appointment will be subject to the Local Government Superannuation Act, 1337, terminable by one month's notice on either side, and the successful candidate will be required to pass a

successful candidate will be required to pass a medical examination. The appointment will be temporary, but the successful candidate, if satisfactory, will receive consideration, along with other applicants, for the permanent appointment at a later date. Applications, stating, age, qualifications and experience, endorsed "Architectural Assistant," accompanied by copies of two recent testimonials, must reach the undersigned not later than 30th August, 1945. W. P. EREINGTON

W. P. ERRINGTON, Town Clerk.

Municipal Offices. 34, High Street, Scunthorpe. 10th August, 1945.

LYDNEY RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the temporary appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary of 2350 per annum, plus cost-of-living bonus, at present 259 Ios. Applicants must be registered architects, and A.R.I.B.A., or equivalent, and have had experi-ence in the design of houses and the preparation of plans, lay-outs, specifications, etc. Applications, stating age, qualifications and experience, together with copies of three recent testimonials, must be delivered to the under-signed not later than Monday, the 3rd Septem-ber, 1945. G. D. SPEARING.

G. D. SPEARING, Clerk of the Council. R.D.C. Offices, Chepstow. 9th August, 1945. 558

Amended Advertisement. BOROUGH OF CLITHEROE.

BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ' ASSISTANT.

Applications are invited from registered Archi-tects for the above appointment, at a salary of £325 per annum, plus war bonus (at present £59_16s.).

2325 per annum, puts war bound at pressure 259 163. The appointment will be subject to one month's notice in writing on either side, and the successful candidate will be required to pass a medical examination for superannuation purposes and to contribute to the Superannuation Fund. Applications, stating age, qualifications, pre-vious experience and position in relation to National Service, and accompanied by copies of three recent testimonials, must be delivered to the undersigned in a plain sealed envelope endorsed "Architectural Assistant," not later than 12 noon on Monday, 20th August, 1945. G. HETHERINGTON, Town Clerk. Town Clerk.

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The Castle, Clitheroe, Lancs. 2nd August, 1945.

SURREY COUNTY COUNCIL.

[xlix

GUILDFORD SCHOOL OF ART,

Wanted, full-time TEACHER OF ARCHI-TECTURE, to train full-time part-time Students for R.I.B.A. Intermediate Examination. Appoint-ment temporary. Salary, Burnham Scale. Apply immediately to Principal, School of Art, Stoke Park. 561

THE UNIVERSITY OF MANCHESTER.

Applications are invited from men, 30-45 years of age, for appointment as MAINTENANCE OFFICER, of the University's Buildings. Candi-dates should be Chartered Surveyors, preferably qualified in the Building Section, or hold similar qualifications, and should have had practical experience. Commencing salary, £500-£550 per annum (with children's allowance scheme). The successful applicant will be reduired to join the Federated Superannuation System for Universities. Appli-cations, accompanied by copies of three testi-monials, and giving the names of three treferees, should be sent to the Bursar of the University, from whom further information may be obtained. 7th August, 1945.

ASSISTANT BUILDINGS' INSPECTORS

Applications are invited from duly qualified ersons for two appointments of Assistant Build-gs' Inspectors in the County Architect's Depart-

ment. The salary in each case will be in accordance with Grade D of the Whitley Council Scale, £360 per annum, rising subject to satisfactory service to £405 by annual increments of £15, plus Whitley Council cost-of-living bonus, at present £59 16s. per annum. The appointments will be subject to the Local Government Superannuation Act, 1937, and to the successful candidates pass-ing the Council's medical examination, and will be terminable by one month's notice on either side. be side

Applicants must have had practical experience of building, supervision of building work, and maintenance of property, and should be able to prepare reports. Previous experience with a public authority is desirable. The person appointed will be required to provide a motor-car not exceeding 8 h.p., and an allowance will be paid in accordance with the Council's scale D for the time being in force. Forms of application may be obtained from the County Architect, 4. Alfred Street North. Carlisle, and should be completed and returned to him, accompanied by copies of three recent testimonials, not later than Monday, 10th Sep-tember, 1945. G. ANDREW WHEATLEY,

G. ANDREW WHEATLEY, Clerk of the County Council. The Courts, Carlisle. 1st August, 1945.

532

THE LICHFIELD DIOCESAN DILAPIDATIONS BOARD Invites applications for the post of SURVEYOR to the Board, to commence duty on the lat January, 1946. Applicants must be duly quali-fied Architects, and applications, together with particulars of past work, must be sent to The Secretary, Diocesan Registry, The Close, Lichfield, by the 30th September, 1945. 555

Architectural Appointments Vacant

Pour lines or under, 4s ; each additional line, 1s.

Wherever possible prospective employers are urged to give in their advertisement full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

TWO ARCHITECTURAL ASSISTANTS wanted in London Office of Staff Architect to large industrial company; well trained; good draughtsmen; able to handle large and small jobs from sketch plans to finish; salary; 2400-£500, according to qualifications. Apply Box 986.

A RCHITECTURAL ASSISTANT required in provincial office; 30 miles from London; good prospects for right man; small house available; state experience, qualifications, and salary re-quired. Box 988.

A SSISTANT required by Chartered Surveyors in London in connection with works of alteration, reconstruction, conversion, etc; per-manent and progressive post. Write fully, stating age, experience, and salary required, Box 521.

THE ARCHITECTS' JOURNAL for August 16, 1945

CUMBERLAND COUNTY COUNCIL.

A SSISTANT required to take charge N.W. London Surveyor's War Damage Dept. and Drawing Office; detailed W.D. knowledge (cost of works repairs and rebuilding) essential; speci-fications, conversions, preparation of plans, lay-outs, etc.; must be good draughtaman. Write in full, stating experience, salary required, etc., Box 530. Box 530.

A CHITECT requires capable Assistant; ence and salary required. Box 543.

A RCHITECTURAL ASSISTANT, with housing and survey experience, required. Telephone Central 6683 or write Box 544.

SENIOR ARCHITECTURAL ASSISTANTS required for Midlands Office; A.R.I.B.A., experienced in design and preparation of all drawings for wide range of buildings; special consideration given to candidates experienced in housing, licensed premises, theatre and industrial work; state age, liability for National Service, experience, and salary required, to Box 547.

JUNIOR ARCHITECTURAL ASSISTANTS required for Midlands Office; intermediate R.I.B.A. standard; capable of executing working drawings and details from sketch schemes, and experienced in all forms of construction. State age, liability for National Service, experience and salary required, to Box 548.

SENIOR and Second Architectural Assistants, with good all-round experience, required for prefabricated housing and other work. H. J. Spivak, 20, Buckingham Street, Strand, W.C.2. Tel.: Temple Bar 8701.

WANTED.-Senior and Junior Architectural Assistants; housing, industry, and general practice; salaries by arrangement, according to qualifications; progressive posts offered. Applica-tions, stating age, experience, etc., or appoint-ment for interview, Venables, 11, West Street, Congleton, Cheshire. 554

A RCHITECTURAL ASSISTANT required, with A good general experience. Apply, stating qualifications and salary required, to G. Alan Burnett, A.R.I.B.A., 76, Albion Street, Leeds. 553

LONDON Architect requires Senior Assistant; salary, £600-£800. Apply Box 557.

Other Appointments Vacant

Four Kines or under, 4s.; each additional line, 1s. A RTIST-DESIGNER required for product asyling; must have flair for presentation and draughtsmanship; technical and inventive industrial design team. Write Sir William (rawford & Partners, Ltd., 233, High Holborn, W.C.1. A RCHITECT'S SECRETARY required; inter-

esting and varied work. Apply Box 545.

Architectural Appointments Wanted

Advertisements from Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

R.I.B.A. desires spare-time evening work; A. S.E. Londen area; neat and expeditious draughtsman; sketch plans and working draw-ings of all types of work. Box 74. A RCHITECT'S ASSISTANT, good draughts-details; preferably domestic; 5 years' experience sperspective artist and 4 years in general Box 75.

TWO Students of Architecture, 2nd year day course, desire post in London office for last two weeks in August, to gain experience. Box 76.

JUNIOR DRAUGHTSMAN seeks position with Industrial Designer in London.

A RCHITECT wishes spare time work in London; drawings, war damage surveys, schedules of condition. Box 78.

ULLIFIED ARCHITECT, 18 years' experi-lished practice, with view to early partnership. Box 86.

R. A.F. Officer (air crew), with pre-war experi-wishes to contact progressive firm with view to engagement on release from H.M. Forces. Ter 81.

A RCHITECTS and Surveyor Draughtsman; articled assistant; 40 years' experience; any class of work; rough ideas and plans of site; moderate cost; superior; R.E.'s grade; war privations, 1914/19, B.E.F. Box 82. DRAUGHTSMAN (31) desires change in classes of architectural and engineering work; neat, quick and accurate; salary £350 p.a. Box 83.

83 Box

A RCHITECT'S ASSISTANT, A.R.I.B.A., A.A. A GIPHORAT SASSISTANT, A.R.I.B.A., A.A. diploma, 7 years' office experience on design and drawings for varied types of work, including layouts for temporary and permanent housings, wishes to join gentleman Architect in private practice; South or West of England. Box 85. OUALIFIED ARCHITECT (35) offors spare-time assistance in London; quick and accurate draughteman; general experience. Replies to Box 84.

Other Appointments Wanted

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

TRENDERT STRESS ANALYST and Structural Engineer, B.Sc. degree, with extensive ex-perience and research work in structural engin-eering, offers part-time or full services; specialist in steel frameworks, curved beams, prefabricated housing problems, bridges, buildings, plastics, etc. Write Box 981.

Planning

Planning As originators of the Auto-Recorder System of Machine Milking, we have had extensive experi-ence of planning layouts to accommodate the new technique. The Ministry of Agriculture's Clean Milk Bill, when passed, will mean a large increase in the number of new or modified farm buildings required. The position will be affected also by the findings of the English and Scottish Commissions on this important subject. The service of our Technical Depart-ment is available to any Architect who may be consulted in these matters. Write in confidence to: Gascoignes (Reading), Ltd., Berkeley Avenue, Reading. Avenue, Reading.

Property for Sale

Four lines or under, 4s.; each additional line, 1s. Four lines or under, 4s.; each additional isne, 1s. HIGH HOLBORN, W.C.1 (Featherstone Buildings); unrestricted site; suitable for modern offices and showrooms; frontage 20 ft., depth 60 ft.; freehold, £2,000. Box 537. COMMERCIAL GARAGE PREMISES. (Wick Road, E.9).-Spacious site, approx. 10,000 sq. ft., and partly war damaged workshops and offices, let at 2400 p.a., inclusive, until April, 1946; suit builders, contractors, transport, or storage depot; £6,500, freehold. Box 550.

For Sale

For Sale Four lines or under, 4s.; each additional line, 1s. FOR SALE.-4 tons Slag Wool, in perfect condition. Apply Frigidaire, Ltd., Edgware Road, The Hyde, N.W.9. ELECTRICITY FOR COUNTRY HOUSE.-Complete equipment for Sale, including 20 h.p. Oil Engine, Electric Generator and Booster Set, Switchboard, Battery, and Motors, 200 volts supply; in good running order; inspec-tion.-Apply Baily, Grundy & Barrett, Ltd., Electrical Engineers, Cambridge. 446

Miscellaneous

Four lines or under, 4s.; each additional line, 1s. A. J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular guard rail, factory partitions and gates. 53, 64. Mariborough St., W.I. Gerrard 4223-4224-4225.



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