# THE ARCHITEGTS' JOURNAL



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contents

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

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IAAS

ICE

Registered as a Newspaper.

★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

lished in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.	
AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1.  Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley,"
ABS ABT ACGB ADA	Castle Hill Avenue, Berkhampstead, Herts.  Architects' Benevolent Society. 66, Portland Place, W.1.  Association of Building Technicians. 5, Ashley Place, S.W.1.  Arts Council of Great Britain. 4, St. James' Square, S.W.1.  Aluminium Development Association. 33, Grosvenor Street, W.1.  Mayfair 7501/8
APRR ArchSA	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.I. Euston 2158-9  Architectural Students' Association. Department of Architecture, School of
ARCUK	Building, Ferndale Road, Brixton, S.W.4. Brixton 7048 Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738
ASB AScW	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1. Welbeck 5721 Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.
BAE BATC	Board of Architectural Education. 66, Portland Place, W.1. Welbeck 5721 Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.
BC BCC BCCF BCIRA BDA BEDA BGF BIA	Building Centre. 9, Conduit Street, W.1.  British Colour Council. 13, Portman Square, W.1.  British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.  British Cast Iron Research Association. Alvechurch, Birmingham.  British Door Association. 10, The Boltons, S.W.10.  British Electrical Development Association. 2, Savoy Hill, W.C.2.  Temple Bar 9434  British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.
BIAE BID BINC BOT BRS BSA BSI BTE CABAS	Glasgow Central 2891 British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385 Building Industries Distributors. 52, High Holborn, W.C.1. Euston 5385 Building Industries National Council. 11, Weymouth Street, W.1. Langham 2785 Board of Trade. Millbank, S.W.1. Whitehall 5140 Building Research Station. Bucknalls Lane, Watford. Garston 2246 Building Societies Association. 14, Park Street, W.1. Mayfair 0515 British Standards Institution. 28, Victoria Street, S.W.1. Abbey 3333 Building Trades Exhibition. 4, Vernon Place, W.C.1. Holborn 8146/7 City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A.,
CAS	Borough Architect, Town Hall, Newport, Mon. Newport 3111 County Architects Society. C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury. Shrewsbury 3031
CCA CDA CIAD CIAM CID CPC	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255 Copper Development Association. Kendals Hall, Radlett, Herts. Radlett 5616 Central Institute of Art and Design. 41, 42, Dover Street, W.1. Regent 3074 Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, Switzerland. Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322 Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.
CPRE CUJC	Kensington 8161 Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1. Victoria 1534
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 1761
DIA DOT EC EJMA	Design and Industries Association. 13, Suffolk Street, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. Electricity Commission. Savoy Court, Strand, W.C.2. English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448
EPNS FAS	English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837
FB 1951 FASSC	Festival of Britain 1951. 2, Savo <sub>f</sub> Court, Strand, W.C.2. Waterloo 1951 Federation of Association of Specialists and Sub-Contractors.
FBI FC FCMI	21, Tothill Street, S.W.1. Whitehall 9606 Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.
FDMA FLD	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.  Langham 4041

FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.

Institution of Civil Engineers. Great George Street, S.W.1.

Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.

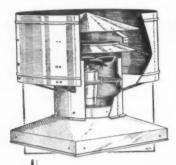
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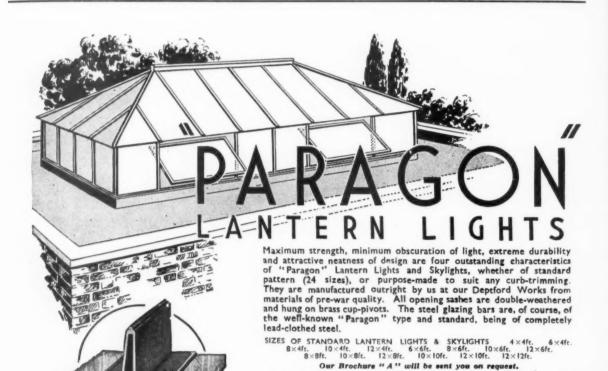
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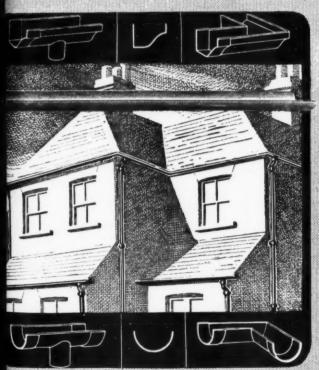
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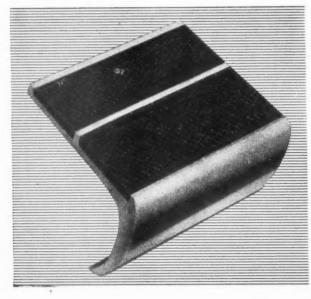
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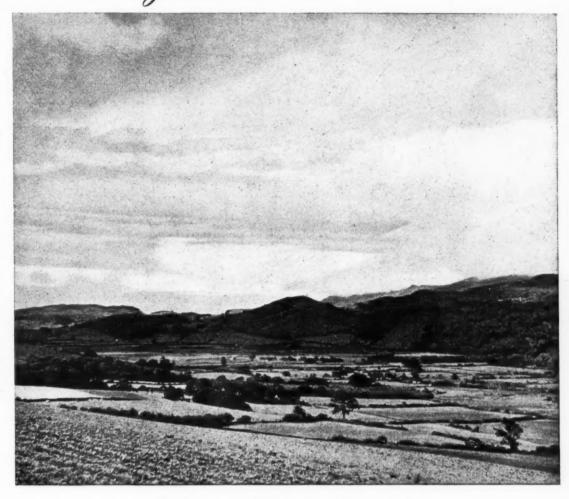
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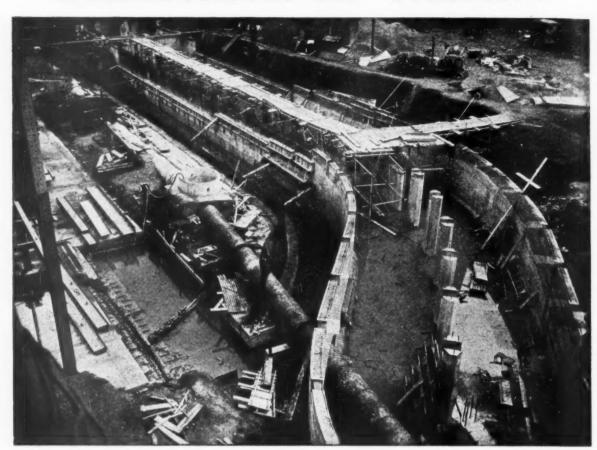
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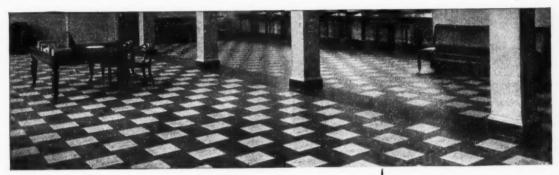
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Since it is entirely non-absorbent and alkali-resistant, it is perfectly suitable for use on concrete subfloors without damp-course, at ground level or below it, provided there is no pressure of water. For such applications it offers an unusually attractive floor which withstands the hardest usage, either in domestic kitchens, entrance halls, etc., or in shops and public buildings.

#### Quickly laid, easily cleaned

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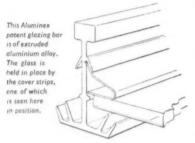
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# PROFILE: the Aluminex Patent Glazing Bar and its applications

If it is true that the function of a patent glazing system is "to hold glass permanently in place, in any plane, over any given area by the simplest possible means", then it is by this exacting standard that the Aluminex patent glazing system should be judged.

The examination may most conveniently begin with the profile of the Aluminex aluminium alloy glazing bar. It is a shape completely determined by its function. Nothing about it is by intention ornamental nor is any part of it attributable to an afterthought. It is, in other words, good functional design and by virtue of that, has a pleasing appearance. It consists of a main web with a strengthening ridge at the top holding a necessary weight of metal in balance. From the "spine" emerge ribs on each side to hold the continuous glazing cover strip, ribs to serve as anti-capilliary stops for the glass and supporting flanges to receive the weight of the glass. There are further flanges to form drainage and condensation channels.



# The role of the glazing cover strip

Complementary to the glazing bar is the glazing cover strip. This is a continuous strip of aluminium alloy rolled into a springy wedge shape which is compressed and pushed into place between the upper rib on the glazing bar and the surface of the glass. It holds the glass without aid from putty, screws, cord seatings or flashings. It fits tightly but "gives" in response to thermal movement sufficiently to make a firm and safe grip for the glass in all conditions.

The glazing bar and cover strip, as well as all the minor fittings are made of an alloy of aluminium, silicon and magnesium in which the proportion of silicon and magnesium is specially determined in order to obtain the maximum resistance to corrosion. (It has been found that the composition of an aluminium alloy is the major factor in the control of corrosion, anodizing and the other surfacing processes being of secondary importance.)

In the case of this alloy the weathering process rapidly produces an extremely hard patina on the surface which thereafter remains static and protects the metal.



springy strip of aluminium alloy rolled to this shape.

These two basic components of the Aluminex glazing system — the glazing bar and the cover strip — have been designed to fulfil the requirement of the definition, that glazing should be done "by the simplest possible means". As for the other requirements, it has been shown that to ensure security in any plane we have a firm glass holding device and for permanence a corrosion-resistant alloy.

## Aluminex — a method of construction

But examination of many of the applications of the Aluminex patent glazing system suggests a larger claim. Aluminex in fact has been used not merely as a glazing system but as a method of construction in its own right.

It is difficult, for instance, to think of the glazed stretch 1,052 ft. x 50 ft. on the northern side of the Brabazon hangar at Filton as a window (even as the "biggest composite plate glass window in the world", as it has been called.) It is more properly, a "glass wall", and the Aluminex glazing is an integral part of the structure of the building.

An extension of this idea, although on a much smaller scale, is to be seen in the L.C.I. Experimental building at Witton. Here, as part of the general intention to test the application of non-ferrous metals in various fields, the South West wall is entirely built on a skeleton of Aluminex casement sections. The spaces between the bars are in some cases not glazed but fitted with a variety of solid panels. This construction can best be described as a "grid wall" of a new type, yet it is in fact only an application of the Aluminex method of construction.

# The possibilities of double glazing

By means of modified types of the glazing bar, the Aluminex system provides double glazing which gives a high degree of insulation and freedom from internal condensation. The problems of providing light cladding to suitable buildings can therefore, it is clear, be approached with this system of construction in mind.

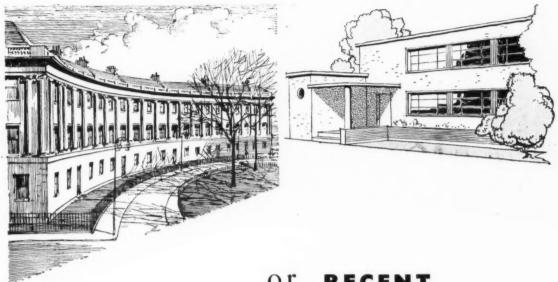
In fact, in the hands of an architect of imagination, this young, yet accepted, method of construction has exciting possibilities. This is particularly so in the treatment of industrial and similar buildings where the maximum of light is required. The company may be relied upon for enthusiastic co-operation in all such developments and invites communications from all architects who might like to discuss ideas and projects in this field.

Aluminex Div.sion of Williams & Williams Limited, Reliance Works, Chester. Telephone: Chester 3600 (7 lines). Telegrams: Reliance, Chester.



The Experimental building of the I.C.I. Metals Division at Witton. The wall grid seen here holds both solid and glazed panels.

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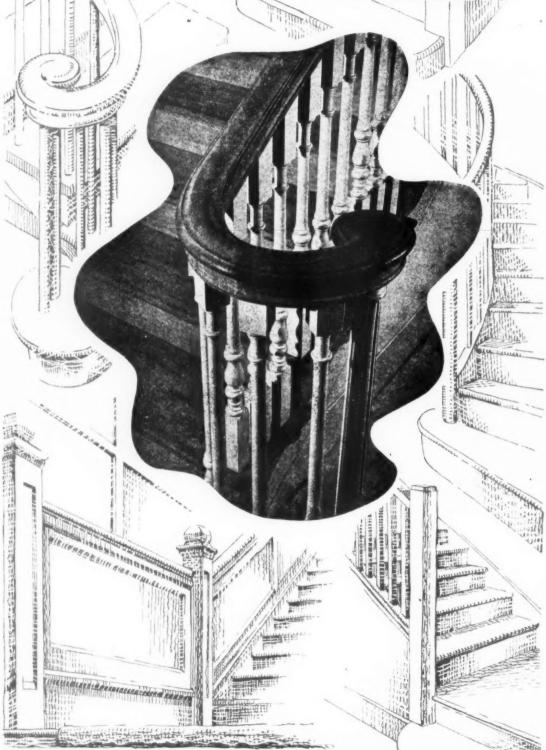
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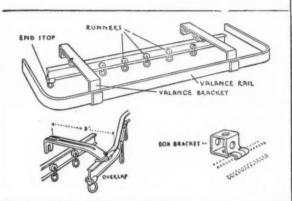
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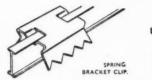
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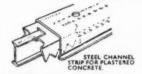


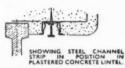
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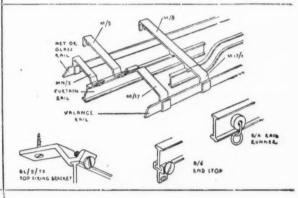


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Architect's Journal: she following information Sheets are available and will be sent on request to manufacturers. SHEET 44 D.I. ('RUFFLETTE' B/L and M Type Ralls).

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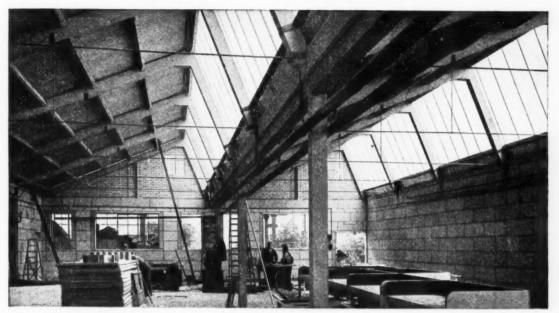


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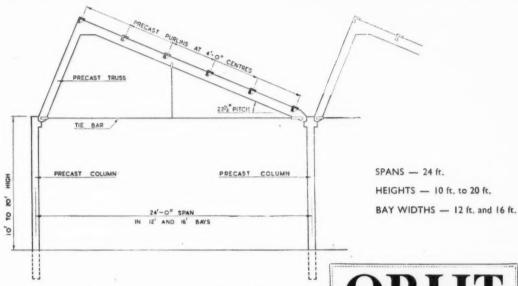


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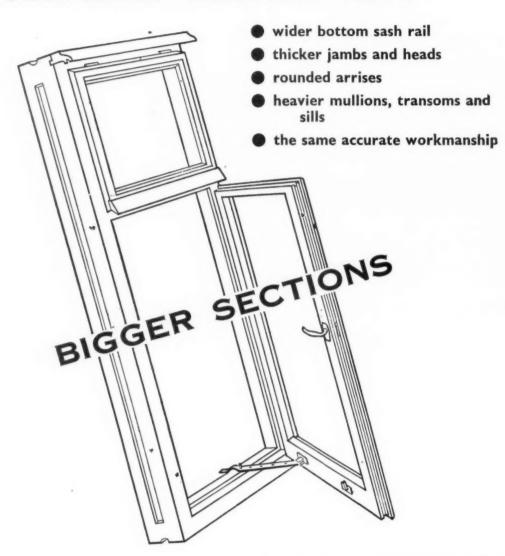
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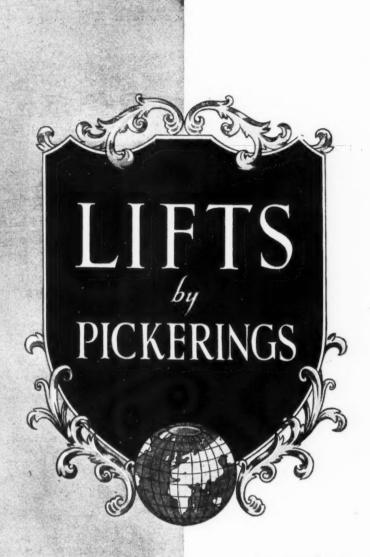
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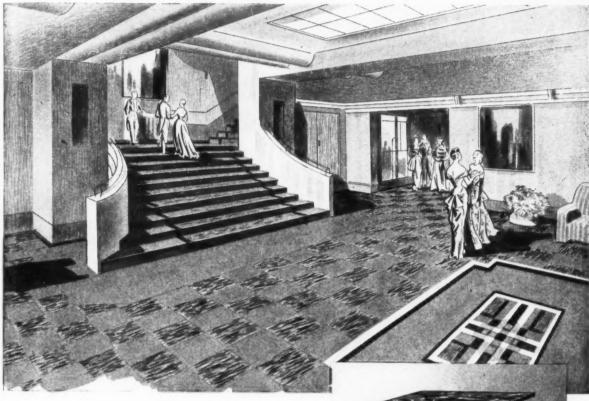
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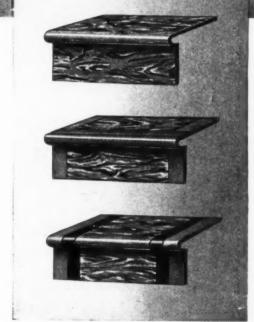


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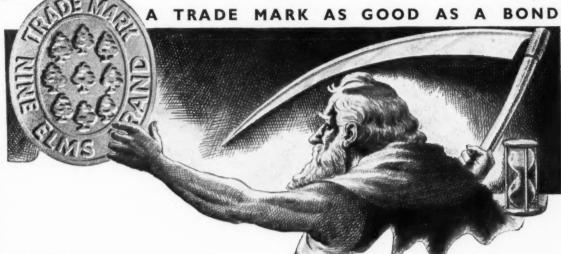
HOLOFORM and normal building methods are complementary in that composite structures may be designed, if necessary, to combine appropriate features of each system and to preserve individuality.

Architects concerned with any type of singlestoried building which requires repetition of plan units should write for a copy of the HOLOFORM booklet.

THE MORRIS SINGER COMPANY LIMITED

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ime has proved it.



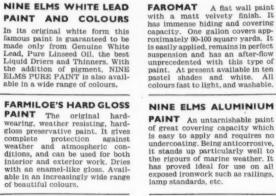
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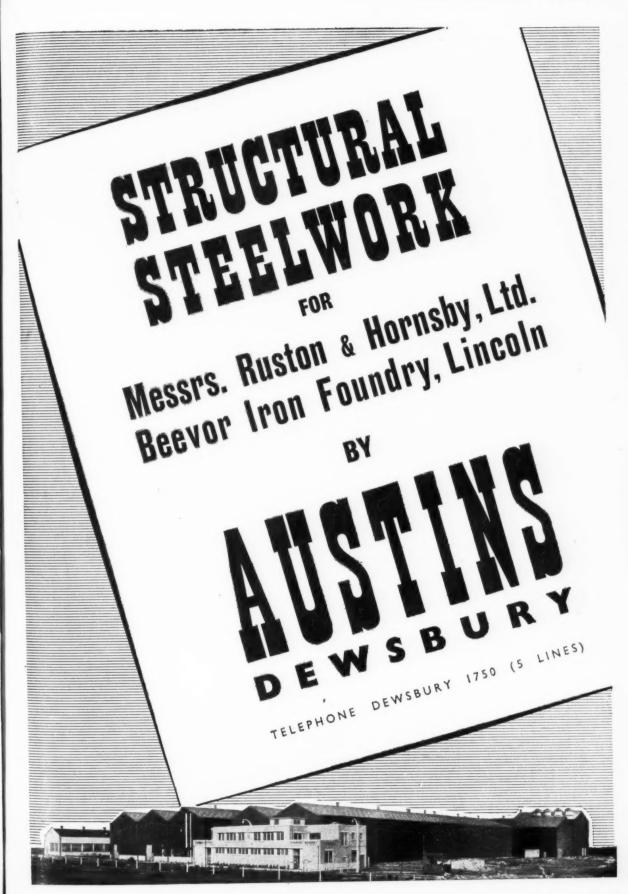
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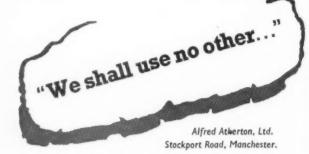
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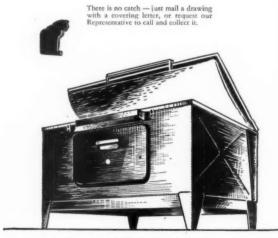
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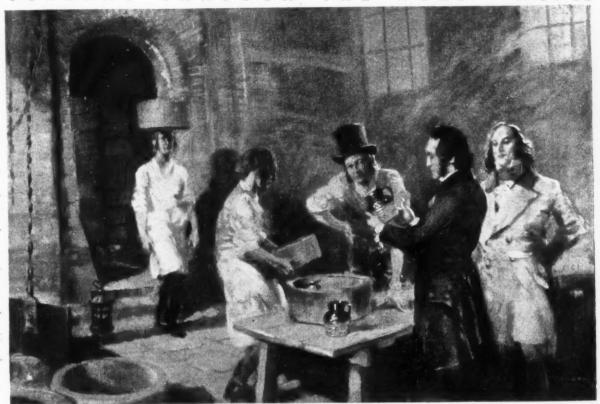
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The changes in pottery-making during the past 150 years (and especially during the past 25 years) are probably greater than those in the preceding 5,000 years. They include many developments due to modern technical and scientific research; the use of new raw materials and mixings for bodies and glazes; accurate

methods of checking and controlling materials; the ever-increasing use of machinery and mechanical devices for the more arduous and repetitive tasks; the application of infra-red and other new methods of drying; the gradual superseding of the old coal-fired type of kiln (such as shown in our illustration of a 19th century pottery) by gas and electrically fired continuous kilns.

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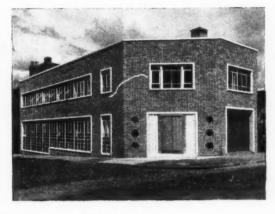
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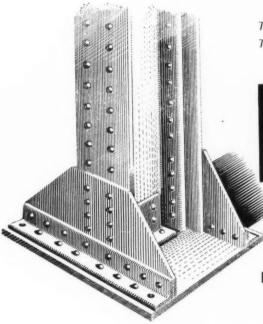
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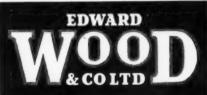
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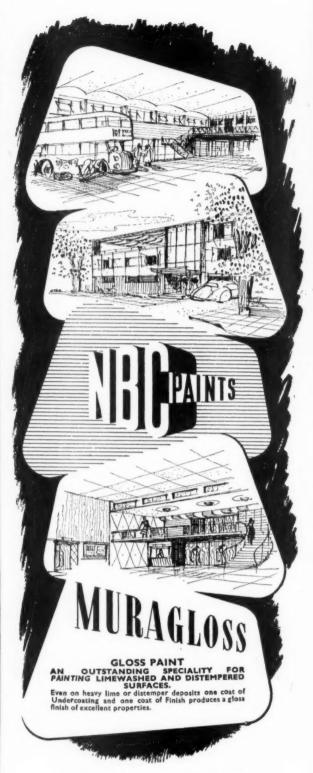
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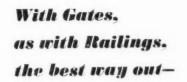
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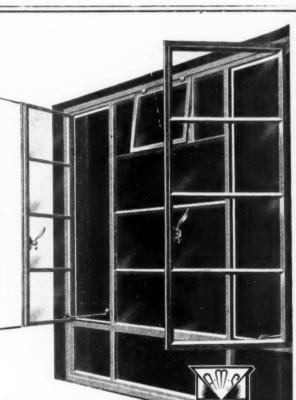
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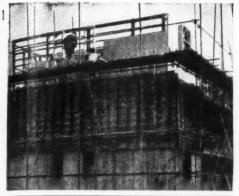


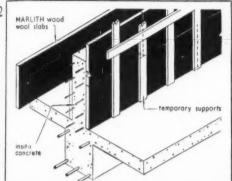
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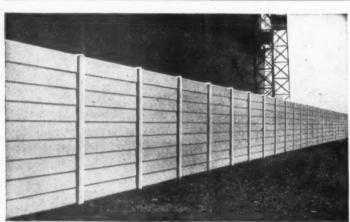
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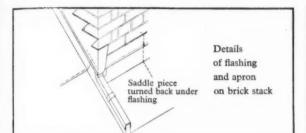
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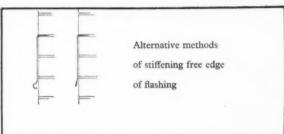
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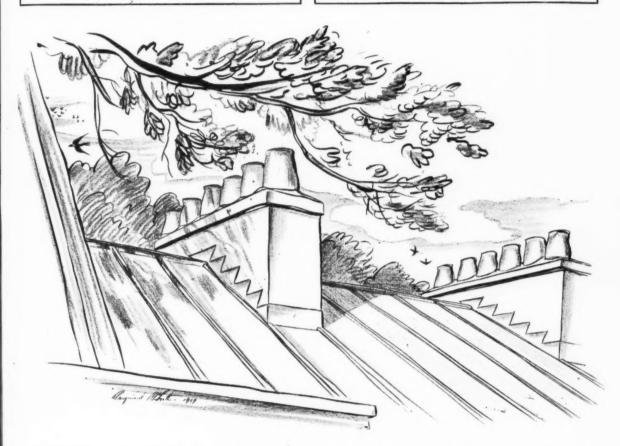
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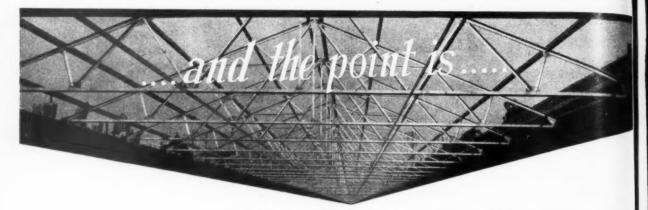
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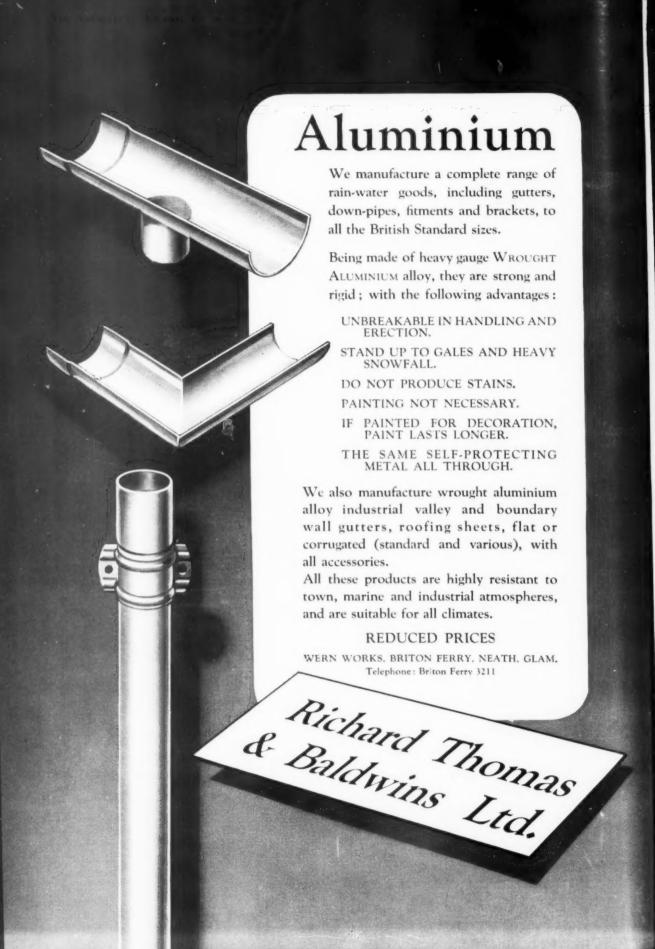
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THE ARCHITECTS' JOURNAL

No 2880 20 April 1950 VOL 111

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#### CALLED TO THE BAR

I had hoped to give my readers an accurate account of proceedings at the AA's annual reception, which was held last Thursday. However, although I started the evening well, by looking at Mr. Rowland Pierce's collection of watercolours, and was diverted for a time by the architectural quiz. I soon gravitated to the bar, where one can always be sure of meeting friends one has not seen since the last reception.

Later, when it was all over, I realized I had not seen the sleight of hand or joined the light of foot. Nor had I looked at the designs for film sets or the playlet, La Paix Chez Soir, which was admirably performed, I am told, by the AA Dramatic Society. And

most disloyal of all, I had only looked at a few of Acanthus's drawings.

However, I will no doubt be excused for my apparent remissness when I point out that this is the one occasion in the year when I meet a really large gathering of readers, and that I therefore felt justified in taking up the most strategic position for studying what is known as "reader reaction." It was nice meeting some of you; see you again next year.

#### THE BRITISH PUB

In addition to its attempts to rescue the design of public houses from the æsthetically arid fields it has entered The Architectural Review is to be congratulated on again becoming "news." I have seen at least eight daily papers with some form of comment on the exhibition at the V and A of the designs for their Pub Competition. It is, of course, the one subject with which every simple, honest, low-brow journalist can feel at home. Even the News Chronicle, which has strong teetotal sentiments, gave space, I am told, to comment in one edition.

Not all the news items were strictly accurate, of course. It was news indeed to read that the sponsors for the exhibition were the Festival of Britain. Poor dears, they have enough on their plate as it is. But the really encouraging fact is that, given an architectural subject with which they cannot help being familiar, the news reporters, and presumably, therefore, members of the general public, are interested enough to make comments. With the aid of the wireless, the papers, and even the films, architecture is becoming a subject worthy of the layman's attention. Those who doubt this should compare present newspapers with pre-war editions.

But do not misunderstand me. Apart from a report in The Times, there was hardly an intelligent comment on the design of pubs in any paper. The most fascinating item was written for the Sunday Times, by someone who was obviously frightened at a tender æsthetic age by a special number of the Review. The winning design, he said, was a "hygienic compromise between an operating theatre and a Mayfair beauty parlour." This is so fantastic that one cannot but wonder if the writer was really conscious on the occasions he entered the first source of his comparison, and, incidentally, why he ever entered the second.

Lastly I hope that my fellow journalist was slipping badly when he quoted one of the winning team as saying that the competition could have been won by good drawings of "any of dozens of old pubs I know in London." If this is true the offender should, I think, be compelled to produce a short essay on the difference between mere pastiche and an interpretation of the public house tradition in a modern way.

#### THE SCOTTISH TEA ROOM

Miss Cranston's ghost is, doubtless, rejoicing at Glasgow Corporation's decision to purchase the tea rooms in Ingram Street, Glasgow, which she commissioned Charles Ronnie Mackintosh to design for her. This building was one of a series designed by Mackintosh for Miss Cranston, who appears to have been an admirable client in that she retained the services of one architect and commissioned him to design all furniture, fittings and equipment, including cutlery and china. Incidentally, the original decorations and fittings of the Ingram Street building will be included in the Corporation's purchase.

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Mackintosh's work, most of which is to be found in and around Glasgow, is not well known, although every architectural student must have heard of his connection with the "art nouveau" movement and the tremendous influence he exerted on the Continent at the turn of the century. And they probably know of his Glasgow School of Art, which broke new ground at a time when public buildings were invariably conceived on the lines of well established classical or Gothic precedents. Had his example been followed by others his country might never have become notorious for the heavy facades of Scottish baronial.

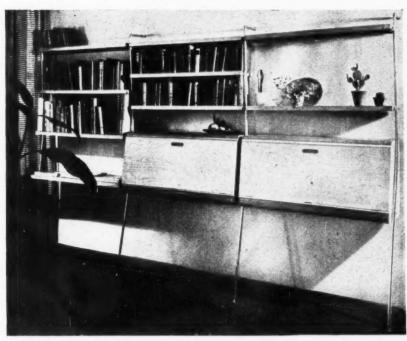
However, not everyone, it must be said, admires his work. In fact, P. Morton Shand commented on it most unfavourably in an issue of *The Architectural Review*. Nevertheless, the Glasgow Corporation, which already owns the School of Art and the Scotland Street School, is to be commended for taking action to preserve this characteristic building of an architect who will be remembered as one of the most interesting of the pioneers in the search for a truly contemporary architectural expression.

#### OLD SCHOOL

The older generation of architects will have been better able to appreciate the work of the Danish architect, Gunnar Biilmann Petersen, shown in last week's Journal, than the harum-scarum young modernists of today. His diverse work shows scrupulous attention to detail. Note, for instance, the correction for errors of parallax in the clockface, and the large wheels on the tea trolley (designed, I believe, for Mrs. Kaare Klint) which serve to minimize any irregularities in floor surfaces. This is the tradition of careful detailing which lies behind the good work of those younger men whom the unassuming Mr. Petersen admiringly calls: "the modern Danish architects."

#### LATIMER-DAY FURNITURE

I have frequently admired the work of Robin Day and Clive Latimer, but the designs attributed to them in the JOURNAL recently seemed disappointingly dull and heavy. I have just been told, however, of the difficult conditions



Above, storage units in mahogany and birch with drop flaps and adjustable shelves above. Designed by Robin Day and Clive Latimer, the units were awarded first prize in the recent international competition for low-cost furniture sponsored by the Museum for Modern Art, New York. The prototypes shown were made by Heal & Son, Ltd. Right, the unit as redesigned by the prizewinners to suit American production technique. Further adaptations were subsequently made by a specialist firm of American furniture designers. Changes include: the sub-stitution of normal front and back legs under the cabinet instead of the suspending side frames, and projecting handles to drawers. Standardization was lost by the use of several different lengths of unit. A flexible system of interior fitments which allowed the basic unit to be used as a desk, for drinks, records and linen storage, as a dressing table, or for china and glass display was also dispensed with.



under which they worked. Compare the original shown on this page, a delicately designed job, with the first adaptation, which was made to suit American production methods and what are sinisterely described as American market requirements. The moral is the old one: design and production must go hand in hand. With the best will in the world designs will tend to go astray if the designers have several thousand miles of sea between them and the manufacturers.

It is, however, comforting to learn

that the Americans have not all the answers to methods of mass-production. The furniture was designed for a technique of production which is available here, apparently, but not in America, so I hope this low-price furniture will soon be seen on the home market.

#### CEMENT SHORTAGES

Last week the Evening Standard, pursuing its policy of taking every possible dig at the 1951 Exhibition, raised the old bogy of how many houses are not being built with the cement going



City Gardens

Next year, the Festival year, visitors from all over the world will be sight-seeing in the vicinity of the City and St. Paul's. On pages 479-481 of this issue, Gordon Cullen describes proposals for the development of gardens on the bombed sites which surround the cathedral. He suggests nothing formal, or pretentious, but merely a way of emphasizing, by judicious planting, the essential

characteristic of these waste lands, which is the seemingly casual growth of self-sown flowers. This characteristic is shown admirably in the view, above, of a blitzed site off Cheapside. If, however, any such planting is to be attempted, it must be begun this spring and summer for a proper effect to be achieved in time. It is hoped that the appropriate authorities will take quick action.

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into the river wall and the exhibition buildings. The MOW says that 1951 is taking 200 tons a week, while Cement Marketing, who certainly ought to know, are quoted as giving a figure of 240 tons a day. All I can do is heave a sigh of relief and be thankful that it's not my job to reconcile such widely divergent figures.

#### DELAYED REPORTS

In spite of rumours, the Working Party's report did not, after all, appear before Easter, and is now presumably being held up until after the Budget fuss has died down. Without wishing to be querulous, I sometimes wonder whether it's right for anyone to sit on things and wait for what is thought to be some psychological moment or other. As I have said before, Mr. Key had the report in January: the party was set up nearly two years ago and after that length of time should have something quite important to say.

And what has become of the US Productivity Team's report? For some months the Presidents of the RIBA and the NFBTE have been making speeches about their experiences. It is time we saw the report.

#### BANKSIDE SURVEY

The latest issue of the LCC London Survey (Vol. XXII) deals with the part of Southwark between Blackfriars Bridge on the West and the Borough Market on the East-a fascinating but far too little known neighbourhood which was a favourite afternoon prowl of mine in the days when I used to think I was a photographer. Within a square mile or so are Bankside, Cardinal's Wharf, cavernous lanes between the warehouses, the Anchor, odd little docks and landing stairs, Clink Street, now lacking the old prison, the site of the Globe theatre, fixed now, it seems, by the discovery of a 1618 map in the office of the Comptroller of the City of London, and Nelson Square, part blitzed and now bought for re-housing. The survey is much more readable than previous volumes, and has plenty of photographs and line drawings, not only of street elevations, but of window and staircase joinery as well. It is a very good 30s.-worth, particularly when one remembers present costs of production.

The Editors

#### THE TASK BEFORE US

SOME controversy has been aroused over the depressing outlook for the future of the junior members of the architectural profession which has recently been described in these columns. This week, a reader, whose letter is published overleaf, writes to complain that the figures we gave were merely conjectural. This we have never attempted to deny, All we have attempted to do is to provide approximate figures. and to suggest a likely outcome of events if present-day conditions prevail. This action has not, in fact, been taken to create alarm and despondency, but to awaken the profession and all connected and dependent on it to the dangers which lie before us, and to show up the ignorance of conditions which is prevalent in the profession.

In a letter published last week, Mr. Michael Torrens suggested an alternative set of figures to those proposed by the Journal, in which three assistants and a principal earned an average total of £2,650. This is based on the supposition that there are only 12,000 principals and assistants sharing the total sum available of £7,962,500. There are, however, over 15,000 architects on the Register alone, a considerable number of students about to qualify, and an unknown quantity of unqualified assistants. We have already shown that there are more likely to be 21,000 architects, assistants and others concerned with private practice, and, assuming 3,000 principals, there will, as Mr. Torrens pointed out, either be a surplus of 9,000 assistants in the near future, or the salaries will have to be reduced.

Similarly, in a letter in this week's Journal, Mr. Carlton Tickell points out that the average annual output of the building industry has steadily risen from '46 to '49. But it is far from certain that it will continue to do so, and, unless the country's economic situation improves, the figure may well fall, the forerunner to this fall being the recent cuts in housing, schools and capital expenditure. He also points out that the average salary of assistants, for which advertisements appear in the Journal, would appear to be more in the region of £450 to £650. These figures apply, of course, to conditions as they are today. Our hypothesis is concerned with what the situation will be in two or three years' time. Nevertheless, it is ridiculous to assume that the lowest salary paid in an architect's practice today is £450 a year, as Mr. Tickell would appear to suggest.

What does the position amount to? That the profession knows little or nothing of present-day conditions, and so cannot begin to plan for the future. As we have said before, in ideal conditions the size of the profession should be related closely to the amount of building done in terms of replacement and development required by the nation. Attempts are being made to settle the size of the building industry from the point of view of the operative. The same attempts should be made

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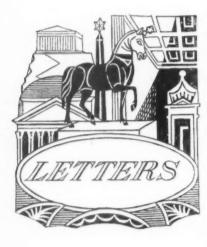
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ASTRAGAL

from the point of view of the architectural profession. The size of the profession, and the numbers of those associated with it, are not so large that an accurate and complete survey could not be made now.

The JOURNAL has published certain figures of salaries and numbers in the profession. They may not be absolutely accurate, but, even allowing for an error of as much as twenty per cent., from the conclusions drawn the prospects for many assistants do not appear bright. If these figures are wrong it is for the profession to disprove them. A general in war may be excused if he does not know the strength of his enemy, but he can never be excused if he does not know his own strength. So in the architectural profession. We know our objective, it is repeatedly stated by the President of the RIBA: control by architects of all designs for buildings in the country. What is unknown is the required strength of the profession to achieve that aim. The first task, therefore, and one which the Journal is attempting to perform, is to help the profession to study, and know, itself.



#### The Older Generation to Blame

SIR,—With reference to your leading article on the prospect for the newly qualified, surely the architectural profession should not be singled out for such depressing prospects for the young men who have completed their training. It must be quite evident that the present ideology hits at the very root of pro-fessionalism generally, or if such a term is preferred, the existence of the middle class element in this country. The general feeling of frustration and gloomy outlook for the future not only affects the newly qualified but has inflicted untold hard-ships on many professional men who ships on many professional men who have been in established practice for many years. In fact, limitations and restrictions of a wholly unbalanced and unstatesman-like character have tended to reduce architecture and architectural practice to the point of extinction. One does not know, of course, how the wind will blow in the of course, now the wind will blow in the future, but the depressing conditions to which your leading article of March 30 refers, it is to be hoped, cannot be anything but momentary, and it would be far more to the point to stress the dire N. Martin Kaye, F.R.I.B.A.

R. Carton Tickell, A.R.I.B.A.

T. Forde

Gontran Goulden, A.R.I.B.A.

H. R. Lister

F. B. R. Brown, A.R.I.B.A.

R. La Ferla

for proper apportionment work and incentive over all classes of the community rather than reduce the spirits of those who seek to take their rightful place in the scheme of things to a con-

place in the scheme of things to a condition of utter hopelessness.

Moreover, it should be remembered that we of the older generation (and this goes for the writer of the leader as well) are responsible to a large extent for the mess in which we find ourselves and for which the oncoming generation cannot assume any share of responsibility. Rather than add insult to injury, every effort should be concentrated on making conditions more tolerable and workable all round.

N. MARTIN-KAYE. N. MARTIN-KAYE.

#### Journalistic Guesswork

Sir.—I admire your temerity. In successive leaders during the month of March you examined the finances of the proyou examined the finances of the profession. Your gloomy prognosis being that in a few years' time half the junior members of the profession would be unemployed. A most alarming statement. Fortunately, as you know, there is no basis in fact for this. It is just an unhappy little assumption tenderly laid on the summit of a pile of guesswork.

From the mass of relevant figures I could find only one that was not simply a confind only one that was not simply a con-

find only one that was not simply a con-

jecture. It is true that the average output of the building industry from 1946 to 1949 inclusive was £1,086,000,000. But you omitted to point out that this average was obtained from a constantly rising figure, £884,700,000 in 1946 to 1355 0000 in 1946. was obtained from a constantly rising figure, £884,700,000 in 1946 to £1,255,700,000 in 1949. Would this have spoilt the picture of an industry in which the amount of work is about to suddenly decline?

The amusing and useless Hankey Report The amusing and useless Hankey Report announced that "there is at present no serious shortage of principals or architects for senior appointments" when all over the country this shortage is known as a fact. Likewise you arrive theoretically at a figure of £400 as the salary of the average assistant today. An examination of the vacancies advertised in the columns of your own paper (how unpleasantly practical) shows the average salary of assistants who have passed the Final examination of the RIBA to be £650, and for those who have passed the

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E650, and for those who have passed the Intermediate, £450.

So let us have figures by all means, but in future, Sir, let them be facts, not fiction.

R. CARTON TICKELL.

Harrow.

#### The Lessor Scheme

SIR,—Congratulations for printing J. M. Richards' criticism on the "Lessor Scheme" buildings which are springing up in various parts of London.

I have watched the monsters taking shape with a kind of amazed wonder at architects being capable of doing such things, an overwhelming feeling of frustration because nobody appears to be able to stop it, and with the morbid thought that we shall probably become hardened to it in time.

I notice that Mr. Richards, however, constructed most of his fire on that proved

centrated most of his fire on that poor old Aunt Sally the Ministry of Works, presum-ably because public bodies have armourabiy because public bodies have armour-plated skins and are not likely to sue for libel. What could he not have said about the architecture if these designs had been submitted by students for the RIBA annual

In view of this legal problem that confronts the critic, I would suggest that each of the architects concerned gives full permission for his designs to be criticized in public. Always provided the criticism is objective and helpful.

This would go a long way towards reassuring all and sundry that the architectural profession is at least as interested in architecture as it is in the economics of running a successful business.

Greenford.

#### MARS Group condemns Lessor Scheme

SIR,-The MARS Group wishes to express Sir,—The MARS Group wisnes to express its whole-hearted support of the criticism which you recently published on the new office blocks being built in London under the Ministry of Works "Lessor Scheme." It is not necessary to add very much to J. M. Richards' complete and well-informed stills expent to congretive him on heins. article, except to congratulate him on being the first to draw attention to this regrettable state of affairs.

Mr. Richards' condemnation of the way

in which the Government has here so blatantly ignored the precepts and recommendations of its own Ministries and research establishments is unanswerable. great opportunity of setting a much-needed example in good design and planning has been ignored. These inhuman, irrational and ill-sited buildings can only do irreparable harm to the development of good architecture in England.

GONTRAN GOULDEN. Hon. Secretary, The MARS Group.

London.

#### The Pub Competition

The Pub Competition

Sir.—Not very many years ago we were asked to sneer at the notion that one could only worship God in a Gothic church. Now apparently we are asked to swallow the theory that one can only enjoy drinking beer—or spirits if one can afford them—in a Victorian pub. Surely it is possible to preserve a public house atmosphere by more subtle methods than taking the heart out of an oil lamp and replacing it with three electric bulbs (no doubt the wire is concealed ever so cunningly in one of the supports!)

As an exercise in what might have been done with Victorian public house architecture, the competition no doubt had a certain whimsical appeal, but let us now fold away the entries it produced, with a gently indulgent smile, and get down once more to the serious task of trying to advance the cause of contemporary architecture. Goodness knows it has wandered into some pretty arid deserts of late!

One last shuddering thought; the competition has demonstrated the curly-wurly Victorianesque jungle into which the Architectural Review would have led us if it had its wayward way. God forbid!

Middlesbrough.

H. R. LISTER.

Middlesbrough.

#### Wasteful Building

Sir,-Mr. Gerald Haythornthwaite (A.J., Sir.—Mr. Gerald Haythornthwaite (A.J., March 30), does not, I think, appreciate that the site of the Mountgrace Secondary School is that of an old mansion and is already laid out with lawns, planting and mature trees. The architect has, in designing the school, preserved these features to a much greater degree than would have been possible had he attempted to design a single building: moreover it is certain that been possible had he attempted to design a single building; moreover it is certain that such a building would have been more costly owing to the steep fall of the site and the additional circulation area which would have been required and would have covered more of the site.

The design is, I understand, entirely acceptable educationally and, in my opinion, it is one of the most satisfactory designs yet produced for a school of this size and type.

F. B. R. BROWN.

F. B. R. BROWN.

London.

Journal Layout

Journal Dayout

Sir,—Unlike your correspondent, Mr.

J. F. G. Hastings (AJ page 328, March 16),
I am not in the habit of pulling my AJ
totally to pieces. What I do pull out, are
the advertisements and, at the end of the
year, I have the editorial bound. I can
safely assume that AJ itself encourages this
attitude by selling binding covers. What the
AJ could do to help those who use the
Journal in this way is to remove to their
proper places those advertisements that
creep up between pages in the Technical creep up between pages in the Technical Section and which, as they have editorial

matter on one side, cannot be removed.

R. LA FERLA.

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.

#### CITY GARDENS: PROPOSALS BY GORDON CULLEN

Before making proposals for the development of gardens on bombed sites, it may be as well to examine the most characteristic aspect of these areas, namely, the growth of self-sown flowers and plants in the ruins. The effect of natural growth in such places depends on their contrast and resulting incongruity. Ruins to us, particularly the ruins in the City, are stimulating, not only because of their strange shapes and effects but also because of their power to evoke thoughts and memories. The silence of a large blitzed area seems to recapture the same silence that fell after the last building collapsed. The first plant to establish itself in the burnt toxic ground was the willow herb. It got a monopoly and fulfilled itself in masses of rank flowers. As the soil sweetened other plants grew, and more than 120 different species have now been found, even tomato plants growing ridiculously but terrifyingly from discarded cheese and tomato sandwiches. So that we have the two things side by side; ruins with all their evocative power and plants with their vitality. The blending of the two gives a scene which, although it may be poignant, is free from false sentiment. The proposals set forward on these pages simply seek to preserve and aid this character during the temporary life of the bombed areas: to aid it by planting more shrubs, climbers and flowers, and by ensuring that there is adequate means of access to the various parts of the site, either by bridges or ramps, and to preserve it by opposing present unfortunate trends in garden design, some of which are shown on page 480. There are two types of development afoot: the olde worlde garden furniture commercialism, which brings suburbia into the wrong place, and the formal garden with its geometrically shaped lawns, gravel paths and ornamental shrubs in tubs. Both these developments nullify the drama we aim at. They also cost more. If it is thought desirable to present the bombed heart of London to the many visitors in the Festival year in its most significant and exciting form, there is no time to be lost. With determination and speed several of the more promising sites could be transformed by the summer of 1951.



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Above is an example from the City of the casual informal development desired. Below are two cautionary illustrations of the type of development to avoid.



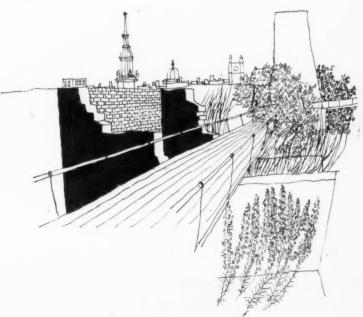
#### BOMBED SITES IN THE CITY OF LONDON

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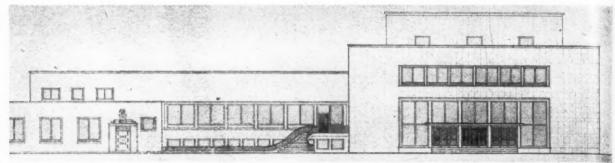
tions



The sketches on this page suggest the developments which would preserve and aid the evocative and vital qualities of the bombed sites. Bridges and ramps would lead visitors over and through the ruins. Summer cafés would provide refreshment in quiet corners. On and over the walls would grow, in luxuriant profusion, such trees, shrubs, climbers and flowers as: sallow, gorse, sycamore, broom, elder, dogrose and sweet briars, honeysuckle, convolvulus, ferns, foxgloves and valerian.



#### FIRST PRIZE-WINNING DESIGN IN COMPETITION FOR



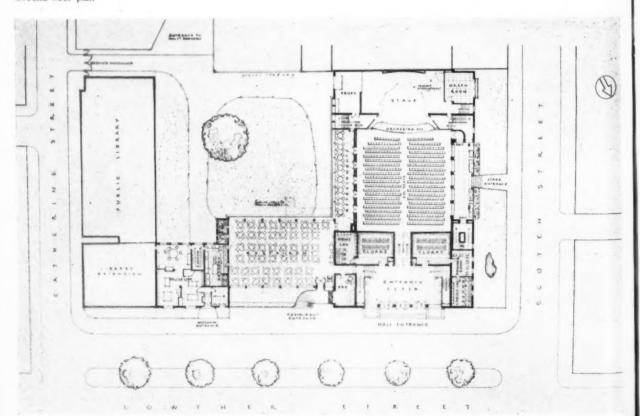
Elevation to Lowther Street

The first and second prize-winning designs in the competition, organized by the Whitehaven Corporation, for a public hall and restaurant to be built in the town, are illustrated here. The assessor, Harold A. Dod, points out in his report that although the winners of the first prize (£300), H. Cullerne Pratt and Ronald Peter Gray, of Stratford, London, have submitted a design of outstanding merit, there are one or two minor defects in the planning, noticeably the lack of headroom in the small bar and restaurant and the somewhat narrow service room attached to the public restaurant. His report continues as follows:—"Notwithstanding these comments I have pleasure in

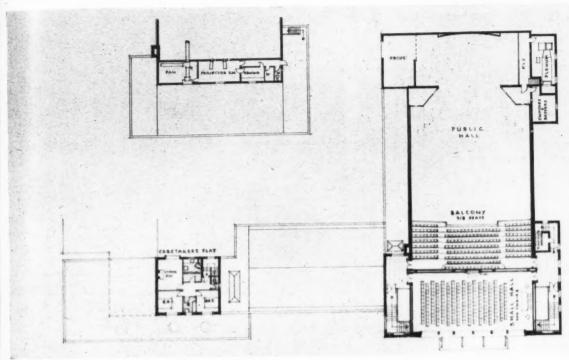
stating that in the winning scheme the placing of the various units in relation to the surrounding streets, the arrangement of the entrances and exits, together with the links which bind the whole scheme together, are most admirably thought out. While each section is separate and complete in itself there is a unity in the full scheme which particularly commends itself. Owing to the selection of the lower ground floor for the restaurant kitchen and also for the dressing-rooms attached to the public hall, it has been possible for these competitors to get an excellent main floor plan."

(The second prize-winning scheme is illustrated overleaf.)

Ground floor plan

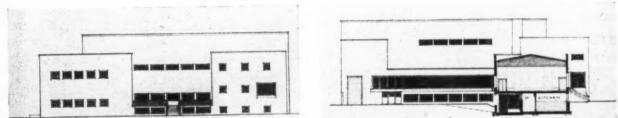


#### FOR PUBLIC HALL AND RESTAURANT AT WHITEHAVEN



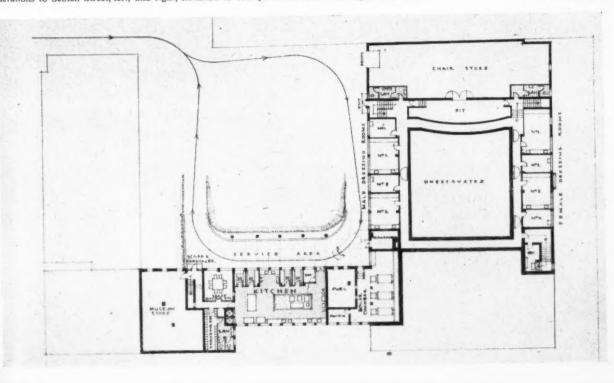
First floor plan

t of the whole While unity in wing to kitchen hall, it main

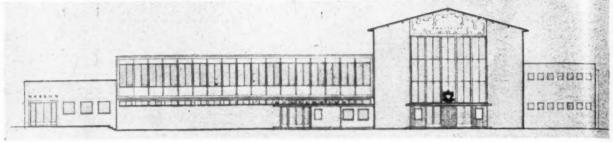


Elevations to Scotch Street, left, and right, elevation to courtyard and section through Restaurant

Sub-basement plan

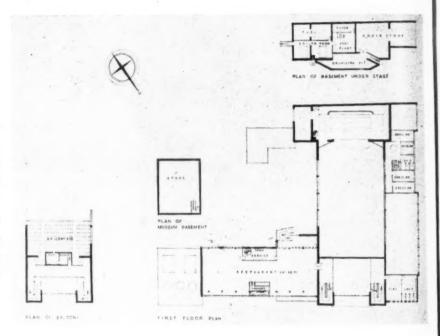


#### WHITEHAVEN COMPETITION: SECOND PRIZE-WINNING DESIGN



Elevation to Lowther Street

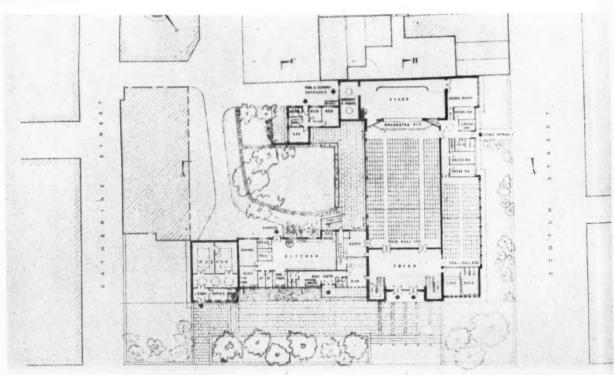
The design shown here won the second prize of £250 in the Whitehaven competition for Muriel Harrison and Ellis Miles of London W.I. The winners of the third award of £175 were Messrs. Poltock, Laws and Garnham Wright, of Loose, near Maidstone, Kent. The three wiming designs were chosen from ninety entries, of which about fifty per cent. were discarded by the assessor at an early stage, as they contained serious defects in planning, such as wrong siting of entrances and badly proportioned public halls.



H

R

Ground floor plan





#### MANCHESTER

#### Health Centre Competition Results

The winners of the competition for a Health Centre organized by the Manchester Society of Architects in collaboration with Provincial Exhibitions, Ltd., are as follows:

(1) A. D. Sherwood (Associate Member, MSA), 17, Hardmans Road, Whitefield,

MSA), 17, Hardmans Road, Whitefield, Manchester; (2) Ellis Wilkinson, A.R.I.B.A., 2, Beacon Grove, Cadley, Preston, Lancs.; (3) Doris and Christine Bowman, 73, College Drive, Manchester, 16.

The work of the winning designers, who were awarded premiums of £100, £60 and £40 respectively, is on view at the 18th Building Trades Exhibition at the City Hall, Manchester, which will remain open until April 29. until April 29.

until April 29.

The assessors for the competition were F. Leslie Halliday, Leonard C. Howitt and Dr. C. Metcalfe Browne. It is not the intention of the promoters to proceed with the scheme, but a model of the winning design has been prepared for display at the Exhibition. the Exhibition.

#### DSIR

#### 1951 Congress in London

A comprehensive congress on building re-A comprehensive congress on building research is to be held in London from September 11 to 20, 1951, and will be the first of its kind ever to be held. It will mark the rapid developments in building science made since the end of the war and has been arranged because of the great and growing interest shown in the sub-ject in many countries.

The Congress is sponsored by the British professional institutions and learned societies interested in building science, and by government departments, with the government departments, with the support of representative industrial federations in Great Britain. The DSIR is providing the central organization for the Conference. Papers are being invited from research workers. research workers in many countries on a wide range of topics, and arrangements are being made to welcome to the Con-gress a large number of visitors from overseas

Overseas.

The purpose of the Congress will be to review the progress made in research in relation to architecture, building, and the associated branches of civil engineering. The scope of the Congress is indicated by

the following representative list of sub-

The effect of summer and winter conditions on the heating and cooling of buildings; the lighting of buildings; problems of special types of buildings, particularly schools, hospitals, and factories; the acquisition of suditories and broadcasting the acoustics of auditoria and broadcasting studios. Mechanization of building operastudios. Mechanization of building operations; prefabrication; steelwork design;
concrete design; soil mechanics and the
design of foundations. Weathering and
durability of building materials in temperate and extreme climates; lightweight
concrete; quality control and accelerated
curing of concrete; development in manufacture and the structural use of burnt
clay products; stone for housing and
developments in quarry mechanization;
gypsum products, limes, painting; etc.

The papers presented will deal with recent
research and its influence on modern
development. The Congress will be
organized in three divisions which will hold
concurrent meetings. Visits to buildings
of interest and to civil engineering works,
etc., will be arranged during the period of

etc., will be arranged during the period of the Congress. Announcements of detailed arrangements will be made in due course, arrangements will be made in due course, but those interested should notify the Organizing Secretary, Building Research Congress, 1951, Building Research Station, Bucknalls Lane, Garston, Watford, Herts. as soon as possible in order that detailed information may be sent direct.

#### MOTCP

#### Building Ban in Peak District

Because most of the site in question is in a part of the area suggested by the Hobhouse Committee for the Peak District National Park, and is traversed by two public footpaths used for access to National Trust properties, the Minister of Town and Country Planning has decided to refuse permission for the building of 32 cottages in the Grindleford area of Derbyshire. Derbyshire.

The Minister's decision follows the holding of a public inquiry into the refusal of the Bakewell RDC, acting on behalf of Derbyshire CC, to permit the building of the cottages.

war permission was granted to build 48 cottages on the site in question, and 12 were completed while a further and 12 were completed while a further four were built up to damp course level. The Minister has decided that planning permission is not required for the completion of these four cottages because they constitute unfinished buildings within the meaning of Section 78 of the Town and Country Planning Act, 1947.

#### BIRKENHEAD

#### Plea for Borough Architect

The question as to whether the time has not arrived when a borough architect should be appointed for Birkenhead was raised at the last meeting of the town council by Councillor John Furness. The meeting was discussing the proposed appointment of a private architect in connection with the erection of the new police buildings which are to cost £57,000.

Councillor Furness said that when the Conservatives were in power, twelve months ago, a short list of candidates for the post of borough architect was prepared, but the matter was dropped when the Labour Party assumed payer. The the Labour Party assumed power. The decision by the Watch Committee to appoint a private architect for the police

buildings was an instance where a borough architect could have saved the town considerable expense. Several committees now had work that demanded an architect, and the time was opportune to appoint one.

#### RIBA

#### Exhibition of drawings

A small exhibition of unidentified draw-A small exhibition of unidentified drawings will be on view in the library at the RIBA's annual reception on April 28. The exhibits will be selected from the collection of unascribed drawings which have been acquired by the Institute during the past 115 years. The librarian will welcome any suggestions from visitors which may lead to the identification of the artists responsible for the drawings concerned. The exhibition will be open daily from 10 a.m. to 7 p.m., and on Saturdays from 10 a.m. to 5 p.m., until Whitsun.

#### Golfing club's results

In a Golf Match between the RIBA Golfing Society and The Building & Allied Trades Golfing Society, at Ashridge recently, the former won by 14½ games to 5½. The present captain of the RIBA Golfing Society is R. W Fisher and Sir Giles Gilbert Scott is president. The Society's hon. secretary (Eric H. Firmin, 10, Manchester Square, W.1), will be glad to hear from architect-golfers who are interested in becoming members.

#### DIARY

Exhibition of Students' Designs from LCC Schools. (Printed and woven fabrics and furniture). At Rayon Industry Design Centre, 1, Upper Grosvenor Street, W.I. Daily 10 a.m. to 4 p.m. Saturdays, 10 a.m. to 12 noon. Until Apr. 28

The Public-house of Tomorrow. Exhibition at Victoria and Albert Museum, Kensington, W.1. (Sponsor, The Architectural Press.) Daily, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m. UNTIL APR. 29

Exhibition of Danish Architecture. At Royal Scottish Museum, Edinburgh. (Spon-sor, RIBA.) UNTIL MAY 7

Lewisham Survey and Plan. University of London town planning students talk about their work. Chairman, Professor W. G. Holford. 1.15 p.m. (Exhibition of work on view until May 6). At HC, 13, Suffolk Street, S.W.1.

APR. 25

Daylight: its nature and supreme importance, with explanations of the simplest methods of measurement. John Swarbrick. At Bartlett School of Architecture, University of London, Gower Street, W.C.1. 6 APR. 26

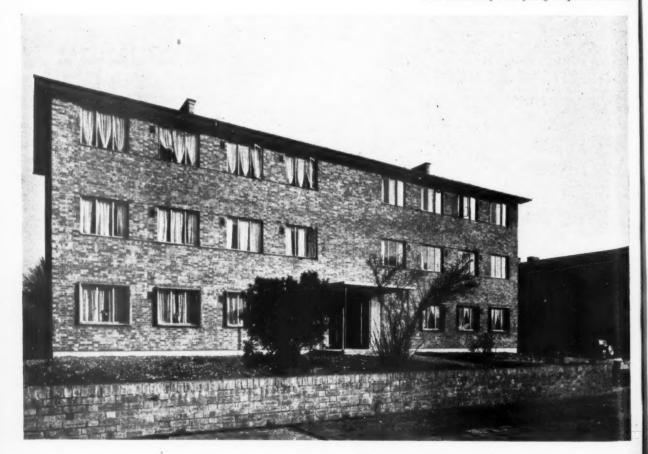
RIBA's Annual Reception, 66, Portland Place, W.1. (Also Exhibition of drawings. See news item above). 8 p.m. Apr. 28

#### FLATS

at CLAPHAM COMMON SOUTH SIDE, LONDON designed by W. H. BEESLEY

Wandsworth Borough Council has acquired several sites within the borough, which have been laid waste by enemy action, on which it has been decided to erect three-storey blocks of flats. Three standard type plans have been evolved for three storey development on restricted sites of which the two blocks erected at Clapham Common South Side are one.

West elevation of block facing Clapham Common.



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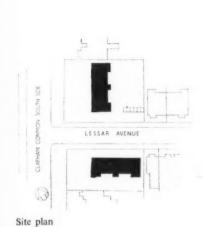
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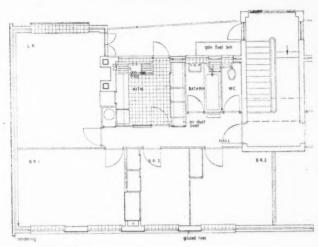
SITE.—It was not possible to plan the blocks with the living rooms overlooking the Common, owing to the fact that these rooms, if so planned, would have had a northern aspect. Windows have, however, been introduced in the flank wall of the block on the south side of Lessar Avenue, to permit a view from the living rooms of that block over the Common. The development of these two corner sites has been governed by the requirements of the Town Planning Acts, as far as density is concerned. It was necessary to set the buildings well back to permit a future widening of Clapham Common South Side.

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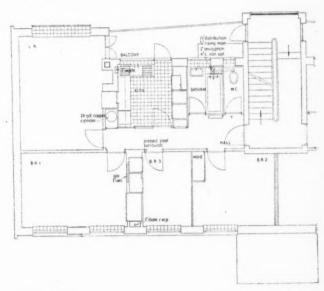
locks

PLAN.—These blocks of flats are 75-ft. long and 30-ft. wide. There is a centrally placed entrance hall and one main staircase serving the six flats. Provision has been made in the entrance hall of the ground floor for six tenants' lock-up pram stores, and the block has been so planned that the main staircase, while giving access to two main flat entrance doors per floor, also gives a secondary access to the balcony at the rear of each flat. Every flat is provided with a large living room, kitchen, bathroom, and a separate w.c. The two flats on the ground floor each have two bedrooms, and the two flats on each of the 1st and 2nd floors have three bedrooms.

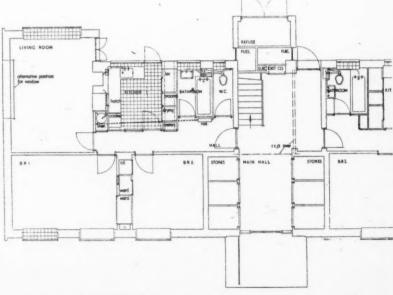
CONSTRUCTION.—The walls are of load bearing brick construction. The ground and first storeys are 13½-in. and the top storey is 11-in. cavity construction. Metal windows have been used throughout and



Second floor plan



First floor plan



Ground floor plan [Scale: 1/2"=1'0"]



FLATS

at CLAPHAM COMMON SOUTH SIDE, LONDON designed by W. H. BEESLEY



Left, the back of the block on the south side of Lessar Avenue. The double doors give access to storage space for refuse bins. Below, the main hall.

all internal door frames, with the exception of the main entrance and vestibule doors, are of pressed steel. The floor construction is of reinforced hollow blocks, with insulation by means of glass silk quilt. Patent type roof construction is used which consists of timber trusses, erected at 2-ft. centres covered with 1-in. insulation boarding and finished with 33 gauge copper.

EXTERNAL FINISHES.—Precast concrete surrounds have been used on certain windows, and the projecting canopy over the main entrance door has been cantilevered out from the first floor. Autumn tinted flettons have been used as facing bricks.

INTERNAL FINISHES.—The dado of the main entrance hall and staircase has been treated with a decorative plaster, stippled and glazed. Above this dado a wall-cream smooth finish has been applied. The floor finish to the main entrance hall and staircase is granolithic. The halls and living rooms and bedrooms in all the flats have been decorated with pastel shades of washable distemper on plaster. All kitchens and bathrooms have been decorated with oil paints. The flooring in the living rooms and bedrooms is timber on battens; the halls have patent tiles, while floors in the kitchens and bathrooms are of patent composition.

FITTINGS.—All bedrooms have been provided with built-in wardrobes. The kitchens, besides being provided with built-in furniture for groceries, brooms, and pots and pans, have also been provided with gas-drying cabinets. Provision has also been made in the kitchens for the ultimate installation, if the tenants so desire, of a gas or electric refrigerator, together with a gas copper. The cooker positions have been wired for electricity, and also carcassed for gas.

SERVICES.—Domestic hot water is obtained by means of a cylinder in the linen cupboard, which is connected to a fireplace back boiler in the living room. An electric immersion heater has also been provided. A radiator in the hall is connected to the hot water system. The plumbing installation has been so

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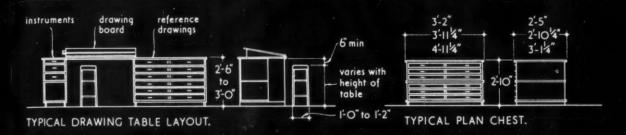
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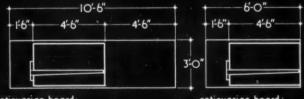
which is ing room, provided, hot water been so



### DRAUGHTSMANSHIP OFFICE LAYOUT AND EQUIPMENT

The Architects' Journal Library of Information Sheets 267. Editor: Cotterel! Butler, A.R.I.B.A.

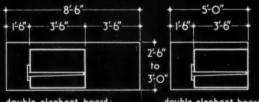




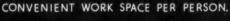
antiquarian board: reference table at side

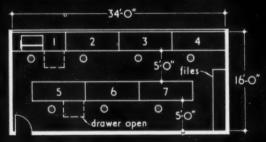
antiquarian board: reference table behind

double elephant board: reference table at side



double elephant board: reference table behind

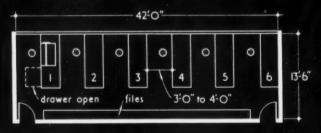




front light: reference drawings at side

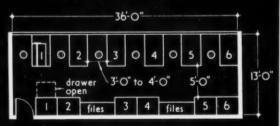


front light: reference drawings behind

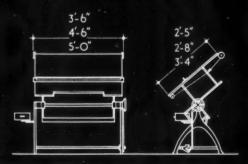


side light; reference drawings at side

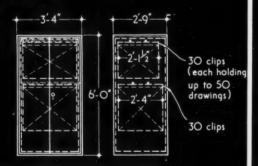
TYPICAL PLAN ARRANGEMENTS. (double elephant size boards)



side light: reference drawings apart



DRAWING STAND with parallel motion straight edge.



TYPICAL VERTICAL FILING CABINET.

DRAWING OFFICE CONDITIONS AND EQUIPMENT.

Compiled by Leslie A. Lee, L.I.O.B. and H. N. Hoskings, A.R.I.B.A. for Eagle Pencil Company — Chemi-Sealed Turquoise pencils

### 1.B1 DRAWING OFFICE CONDITIONS AND EQUIPMENT

This Sheet, one of the series on draughtsmanship, deals with drawing office conditions and equipment.

#### Orientation

A North to North East orientation gives the most even light but offices facing other quarters where sun will penetrate may be adequately protected from extreme glare by means of adjustable sun blinds or Venetian blinds. Top North lighting also provides a good working light.

#### Heating

The office should be provided with a form of heating that gives comfort conditions in all parts of the room by such means as convection or floor or ceiling radiant heating.

#### Ventilation

Adequate ventilation should be provided and to prevent drawings being disturbed by draughts in windy weather a number of the opening lights of windows should be well above the working plane.

#### Lighting

The essential requirements are sufficient illumination of working plane, the avoidance of shadows where possible and the elimination of glare.

Natural lighting: The Illuminating Engineering Society's code for the lighting of building interiors suggests that a daylight factor of 6 per cent. should be provided on the working plane.

Artificial lighting: The above code states that an illumination value of 30 lumens per sq. ft. should be provided on the working surface and 10 lumens per sq. ft. for the general lighting of the office. Usually the most satisfactory way of providing this is to have individual adjustable light fittings over each drawing board and further means of providing general illumination. Fluorescent lighting may be used but careful arrangement is necessary with this, as with all other methods, to avoid glare.

#### **Equipment**

Drawing boards: The sizes may vary 1 in. approximately on either dimension according to the manufacturer. Standard sizes are: Imperial 32 in. by 23 in., double elephant 42 in. by 29 in., antiquarian 54 in. by 32 in. Larger standard sizes are made up to 84 in. by 48 in. or 100 in. by 32 in.

Tee squares: Standard lengths are 18 in., 24 in., 31 in., 36 in., 42 in., 54 in., 60 in., 72 in.

Parallel motion straight edges: These instruments, if used instead of tee squares, facilitate the drawing of long parallel horizontal lines. They should be

used on a cut out type of board to simplify the placing and removal of drawings.

Draughting machines: These machines replace tee square, set squares, scales and protractors and are much more rapid in use due to the elimination of the many movements needed when using ordinary instruments. Space must be allowed above and to the left of the board to accommodate the sweep of the arms. Sizes vary with different makes but if the machine is set near the centre of the top edge of a double elephant or antiquarian board about 2 ft. 3 in. above and 6 to 12 in. to the left of the board should be allowed for a counterbalanced type for use on a steeply tilted board and 8 in. above and 6 to 12 in. to the left of the board should be allowed for non-balanced types for use on horizontal or slightly inclined boards.

Tables: Typical heights and depths of tables are given in the diagrams.

Drawing stands: These may be used instead of tables but little space is gained. Simple wooden or metal types are made with tops adjustable to slope and some for height.

Stools: The wooden framed stool with a wooden or padded seat, with or without a back rest is commonly used. Metal stools are obtainable with fixed or adjustable seats and with or without backrests and footrails.

Drawing cabinets: Wooden or metal types are made with sliding drawers either as a complete unit, usually with six drawers, or in sections that can be built up to the required number of drawers.

Vertical filing cabinets: Drawings are held in special metal clips which hang on rods at the top of the cabinet thus making them far more accessible than when filed in a drawer.

Files and shelves: Files of the usual office type or shelves should be provided for the storage of catalogues, samples, etc.

#### Plan Arrangements

For adequate natural lighting and ventilation the drawing office should be not more than 18 to 20 ft. deep if the ceiling height is not more than 10 ft.; with higher ceilings and windows the depth may be increased. Typical arrangements are shown on the face of this Sheet.

This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

Compiled from information supplied by:

Eagle Pencil Company

Address: Ashley Road, Tottenham, London, N.17. Telephone: Tottenham 4435-6-7.

Telegrams: Octennial, London.

### BUILDING SCIENCE MATHEMATICS CONVERSION TABLES

The Architects' Journal Library of Information Sheets 268. Editor: Cotterell Butler, A.R.I.B.A.

This Sheet sets out the metric equivalents of cubic inches, cubic feet, cubic yards, pints, gallons and American gallons.

Cu. Inches: Cu. Centimetres, Cu. Feet: Cu. Metres, Cu. Yards: Cu. Metres.

Cu. Centimetres : Cu. Inches, Cu. Metres : Cu. Feet, Cu. Metres : Cu. Yards.

No.	Cubic inches: cubic centimetres.	Cubic feet: cubic metres.	Cubic yards: cubic metres.	No.	Cubic centimetres: cubic inches.	Cubic metres: cubic feet.	Cubic metres; cubic yards.
1	16·3870	0·028317	0·7646	1	0·0610	35·314	1 · 3080
2	32·7740	0·056634	1·5291	2	0·1220	70·629	2 · 6159
3	49·1611	0·084950	2·2937	3	0·1831	105·944	3 · 9239
4	65·5481	0·113267	3·0582	4	0·2441	141·259	5 · 2318
5	81·9351	0·141584	3·8228	5	0·3051	176·573	6 · 5398
6 7 8 9	98 · 3221 114 · 7091 131 · 0962 147 · 4832 163 · 8702	0·169901 0·198217 0·226534 0·254851 0·283168	4·5873 5·3519 6·1164 6·8810 7·6455	6 7 8 9 10	0·3661 0·4272 0·4882 0·5492 0·6102	211 · 888 247 · 203 282 · 517 317 · 832 353 · 147	7 · 8477 9 · 1557 10 · 4636 11 · 7716 13 · 0799
11	180 · 2572	0·311484	8·4101	11	0·6713	388 · 461	14 · 387:
12	196 · 6443	0·339801	9·1746	12	0·7323	423 · 776	15 · 6954
13	213 · 0313	0·368118	9·9392	13	0·7933	459 · 091	17 · 0034
14	229 · 4183	0·396435	10·7037	14	0·8543	494 · 405	18 · 3114
15	245 · 8053	0·424752	11·4683	15	0·9154	529 · 72	19 · 619:
16	262 · 1923	0·453068	12 · 2328	16	0·9764	565·03	20·927
17	278 · 5794	0·481385	12 · 9974	17	1·0374	600·35	22·235
18	294 · 9664	0·509702	13 · 7620	18	1·0984	635·66	23·543
19	311 · 3534	0·538019	14 · 5265	19	1·1595	670·98	24·851
20	327 · 7404	0·566335	15 · 2911	20	1·2205	706·29	26·159
21	344 · 127	0·594652	16·0556	21	1.2815	741.61	27 · 467/
22	360 · 514	0·622969	16·8202	22	1.3425	776.92	28 · 775/
23	376 · 901	0·651286	17·5847	23	1.4035	812.24	30 · 082/
24	393 · 289	0·679603	18·3493	24	1.4646	847.55	31 · 390/
25	409 · 676	0·707919	19·1138	25	1.5256	882.87	32 · 698/
26	426.063	0·736236	19·8784	26	1 · 5866	918 · 18	34·006
27	442.450	0·764553	20·6429	27	1 · 6476	953 · 50	35·314
28	458.837	0·792870	21·4075	28	1 · 7087	988 · 81	36·622
29	475.224	0·821186	22·1720	29	1 · 7697	1024 · 13	37·930
30	491.611	0·849503	22·9366	30	1 · 8307	1059 · 44	39·238
31	507 · 998	0·877820	23 · 7011	31	1 · 8917	1094 · 75	40·546
32	524 · 385	0·906137	24 · 4657	32	1 · 9528	1130 · 07	41·854
33	540 · 772	0·934453	25 · 2302	33	2 · 0138	1165 · 38	43·162
34	557 · 159	0·962770	25 · 9948	34	2 · 0748	1200 · 70	44·470
35	573 · 546	0·991087	26 · 7594	35	2 · 1358	1236 · 01	45·778
36	589 · 933	1·019404	27 · 5239	36	2·1969	1271 · 33	47·086
37	606 · 320	1·047721	28 · 2885	37	2·2579	1306 · 64	48·394
38	622 · 707	1·076037	29 · 0530	38	2·3189	1341 · 96	49·702
39	639 · 094	1·104354	29 · 8176	39	2·3799	1377 · 27	51·010
40	655 · 481	1·132671	30 · 5821	40	2·4410	1412 · 59	52·318
41	671 · 868	1 · 160988	31·3467	41	2·5020	1447·90	53·626
42	688 · 255	1 · 189304	32·1112	42	2·5630	1483·22	54·934
43	704 · 642	1 · 217621	32·8758	43	2·6240	1518·53	56·242
44	721 · 029	1 · 245938	33·6403	44	2·6851	1553·84	57·550
45	737 · 416	1 · 274255	34·4049	45	2·7461	1589·16	58·857
46	753 · 803	1·302572	35·1694	46	2·8071	1624 · 47	60·165
47	770 · 190	1·330888	35·9340	47	2·8681	1659 · 79	61·473
48	786 · 577	1·359205	36·6985	48	2·9291	1695 · 10	62·781
49	802 · 964	1·387522	37·4631	49	2·9902	1730 · 42	64·089
50	819 · 351	1·415839	38·2276	50	3·0512	1765 · 73	65·397
55	901 · 286	1·557422	42 · 0504	55	3·3563	1942 · 31	71 · 937.
60	983 · 221	1·699006	45 · 8732	60	3·6614	2118 · 88	78 · 477.
65	1065 · 156	1·840590	49 · 6959	65	3·9666	2295 · 45	85 · 0176
70	1147 · 091	1·982174	53 · 5187	70	4·2717	2472 · 03	91 · 5566
75	1229 · 027	2·123758	57 · 3415	75	4·5768	2648 · 60	98 · 0966
80	1310 · 962	2·265342	61 · 1642	80	4·8819	2825 · 17	104 · 636.
85	1392 · 897	2·406926	64 · 9870	85	5·1870	3001 · 75	111 · 176.
90	1474 · 832	2·548510	68 · 8098	90	5·4922	3178 · 32	117 · 715.
95	1556 · 767	2·690093	72 · 6325	95	5·7973	3354 · 89	124 · 2556.
100	1638 · 702	2·831677	76 · 4553	100	6·1024	3531 · 47	130 · 7954

### 2.A4 CONVERSION TABLES

Pints: Litres, Gallons: Litres, American Gallons: Litres. Litres: Pints, Litres: Gallons, Litres: American Gallons.

desi

ele

No.	Pints : litres.	Gallons: . litres.	American gallons: litres.	No.	Litres: pints.	Litres: gallons.	Litres: American gallons.
1	0·5682	4·5460	3·7853	1	1·759800	0-219975	0·26418
2	1·1365	9·0919	7·5707	2	3·519608	0-439951	0·52835
3	1·7047	13·6379	11·3650	3	5·27941	0-65993	0·79253
4	2·2730	18·1839	15·1413	4	7·03920	0-87990	1·05671
5	2·8412	22·7298	18·9267	5	8·79904	1-09988	1·32088
6 7 8 9	3·4095 3·9777 4·5460 5·1142 5·6825	27·2758 31·8217 36·3677 40·9137 45·4596	22·7120 26·4973 30·2827 34·0680 37·8533	6 7 8 9	10·55880 12·31884 14·07840 15·83824 17·59800	1·31985 1·53983 1·75980 1·97978 2·19975	1·58506 1·84924 2·11342 2·37760 2·64177
11	6·2507	50·0056	41 · 6387	11	19·35784	2·41973	2·90595
12	6·8189	54·5516	45 · 4240	12	21·11760	2·63970	3·17013
13	7·3872	59·0975	49 · 2093	13	22·87744	2·85968	3·43432
14	7·9554	63·6435	52 · 9946	14	24·63720	3·07965	3·69848
15	8·5237	68·1894	56 · 7800	15	26·39704	3·29963	3·96266
16	9·0919	72 · 7354	60 · 5653	16	27 · 15680	3·51960	4·22683
17	9·6602	77 · 2814	64 · 3506	17	29 · 91664	3·73958	4·49102
18	10·2284	81 · 8273	68 · 1360	18	31 · 67648	3·95956	4·75520
19	10·7967	86 · 3733	71 · 9213	19	33 · 43624	4·17953	5·01937
20	11·3649	90 · 9193	75 · 7066	20	35 · 19608	4·39951	5·28355
21	11 · 9332	95 · 4652	79·4920	21	36·95584	4·61948	5·54773
22	12 · 5014	100 · 0112	83·2773	22	38·71568	4·83946	5·81191
23	13 · 0696	104 · 5572	87·0626	23	40·4755	5·0594	6·07608
24	13 · 6379	109 · 1031	90·8480	24	42·2352	5·2794	6·34026
25	14 · 2061	113 · 6491	94·6333	25	43·9952	5·4994	6·60443
26	14·7744	118 · 1950	98 · 4186	26	45 · 7549	5·7194	6·86861
27	15·3426	122 · 7410	102 · 2040	27	47 · 5147	5·9393	7·13280
28	15·9109	127 · 2870	105 · 9893	28	49 · 2744	6·1593	7·39697
29	16·4791	131 · 8329	109 · 7746	29	51 · 0344	6·3793	7·66115
30	17·0474	136 · 3789	113 · 5600	30	52 · 7941	6·5993	7·92532
31	17-6156	140 · 9249	117 · 3453	31	54·5539	6·8192	8·18950
32	18-1839	145 · 4708	121 · 1306	32	56·3136	7·0392	8·45369
33	18-7521	150 · 0168	124 · 9160	33	58·0736	7·2592	8·71786
34	19-3203	154 · 5627	128 · 7013	34	59·8333	7·4792	8·98203
35	19-8886	159 · 1087	132 · 4866	35	61·5931	7·6991	9·24621
36	20·4568	163 · 6547	136·2720	36	63·3528	7·9191	9·51040
37	21·0251	168 · 2006	140·0573	37	65·1128	8·1391	9·77457
38	21·5933	172 · 7466	143·8426	38	66·8725	8·3591	10·03875
39	22·1616	177 · 2926	147·6279	39	68·6323	8·5790	10·30292
40	22·7298	181 · 8385	151·4133	40	70·3920	8·7990	10·56710
41	23·2981	186 · 3845	155·1986	41	72 · 1520	9·0190	10·83128
42	23·8663	190 · 9305	158·9839	42	73 · 9117	9·2390	11·09546
43	24·4346	195 · 4764	162·7693	43	75 · 6715	9·4589	11·35963
44	25·0028	200 · 0224	166·5546	44	77 · 4312	9·6789	11·62381
45	25·5710	204 · 5683	170·3399	45	79 · 1912	9·8989	11·88798
46	26·1393	209 · 1143	174·1253	46	80·9509	10·1189	12 · 15217
47	26·7075	213 · 6603	177·9106	47	82·7107	10·3388	12 · 41635
48	27·2758	218 · 2062	181·6959	48	84·4704	10·5588	12 · 68052
49	27·8440	222 · 7522	185·4813	49	86·2304	10·7788	12 · 94470
50	28·4123	227 · 2982	189·2666	50	87·9902	10·9988	13 · 20887
55	31·2535	250 · 028	208 · 1933	55	96·7892	12·0986	14 · 52977
60	34·0947	272 · 758	227 · 1199	60	105·5882	13·1985	15 · 85066
65	36·9360	295 · 488	246 · 0466	65	114·3872	14·2984	17 · 17155
70	39·7772	318 · 217	264 · 9732	70	123·1862	15·3983	18 · 49243
75	42·6184	340 · 947	283 · 8999	75	131·9852	16·4981	19 · 81332
80 85 90 95	45 · 4596 48 · 3009 51 · 1421 53 · 9833 56 · 8245	363 · 677 386 · 407 409 · 137 431 · 866 454 · 596	302 · 8266 321 · 7532 340 · 6799 359 · 6065 378 · 5332	80 85 90 95 100	140 · 7842 149 · 5832 158 · 3824 167 · 1813 175 · 9803	17 · 5980 18 · 6979 19 · 7978 20 · 8977 21 · 9975	21 · 13420 22 · 45510 23 · 77598 25 · 0968

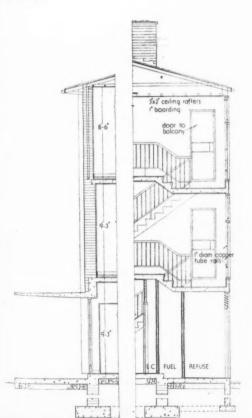
designed that this radiator can be shut off during the summer months, while the immersion heater is in operation.

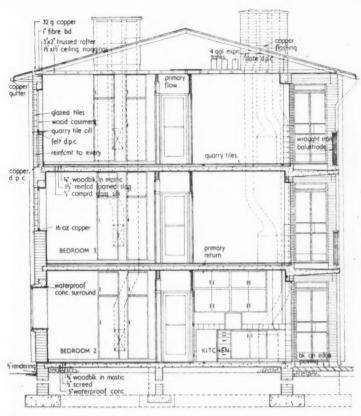
The first bedroom in each flat has an inset gas fire, while all other bedrooms are provided with electric power points.

Ducts have been provided internally to take all service and soil pipes. Provision has also been made for the ultimate installation of telephones if these are desired by the tenants. All pipe ducts have been provided with removable panels for easy access, if the need of repair arises.

Each flat has been provided with its own fuel store, as living rooms have open coal fires.

The general contractors were Messis. Flowitt and Co., Ltd. A list of sub-contractors appears on page 502.





Section through bedrooms and kitchens [Scale: 1"=1'0"]

The kitchen, seen from the passage.



490] The Architects' Journal for April 20, 1950

### MAISONETTES

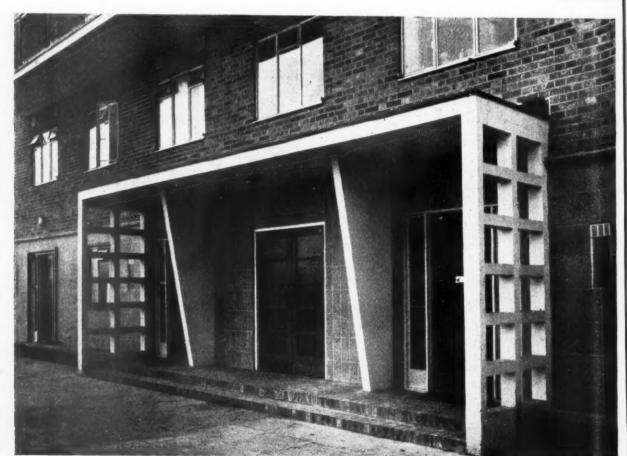
at ROUPELL PARK ESTATE, WANDSWORTH, LONDON designed by CLIFFORD E. CULPIN

Two blocks of maisonettes have been built in a small area, which was devastated by enemy action, close to Brixton Hill, in south London. These blocks form the first stage of a large scheme for rebuilding that area, which is in the Borough of Wandsworth. The completed scheme will comprise about 500 dwellings.

Main entrances.

sout

bed



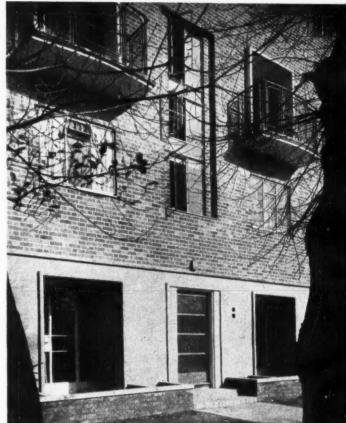
PLAN.-Living rooms and principal bedrooms face south. Each living room has a separate balcony. Each block contains six three-bedroom and two fourbedroom maisonettes (the extra bedrooms are situated on the third floor over the communal stairs).

CONSTRUCTION.-The walls, which are load bearing, are of brick. Floors are of reinforced concrete. The roofs, which are flat, are covered with one inch of wood wool, a thick screed of foamed slag, and a finish of three layers of bituminous felt. Balconies are also finished with three layers of bitumineus felt and a granolithic screed divided into squares. Chimneys are of concrete blocks containing a circular flue lining. Cold air is drawn through grilles from the hall to a heating chamber set in the back of the living room fire. From there it passes to the bedrooms above through an asbestos

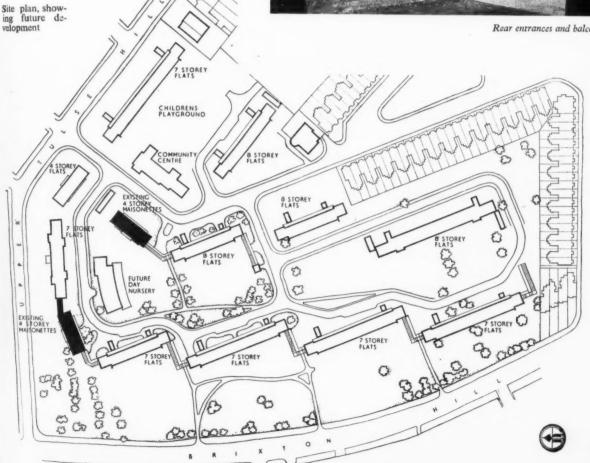
n, close

uilding out 500

entrances.



Rear entrances and balconies.



#### MAISONETTES

at the ROUPELL PARK ESTATE,
WANDSWORTH, LONDON
designed by CLIFFORD E. CULPIN

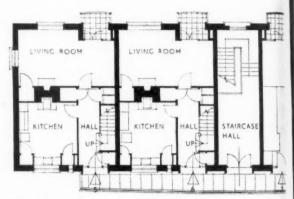
pipe built into the concrete chimney blocks. Sound insulation has been provided by the use of acoustic clips on the battens taking the strip flooring. Party walls between adjacent flats are lined on one side with wood wool slabs.

EXTERNAL FINISHES.—Walls above first floor level have been faced with multi-coloured buff bricks. Below first floor level, wall surfaces are of brown polished terrazzo slabs. The tubular balusters and standards to the balconies have been painted grey and panels are painted opal green. Window frames have been painted ivory; public access doors on the ground floor, grey; doors to flats on the ground floor, maroon; public access doors on the second floor, grey; and doors to flats on the second floor, opal green. Flower boxes are of blue terrazzo.

INTERNAL FINISHES.—Walls to staircases are finished fair-face with rustic flettons; the jointing is flush. The granolithic floors are painted red. Sta'r balusters are painted dark grey and have cream Doors to flats are painted battleship grey; the frames and architraves, primrose. Bathrooms and dining-kitchen walls are partially faced with white tiles. All other wall surfaces are plaster, distempered; ivory in the bathroom, stone colour in the kitchen. Woodwork in both rooms is painted opal green. Built-in cupboard and dresser fittings are provided in the kitchen. Floor surfaces in ground floor living rooms are of wood blocks. Floors in the kitchens and bathrooms are surfaced with 9-in. by 9-in. bituminous tiles. All other floors are surfaced with tongued and grooved boards. Door frames are of pressed steel. The doors are flush faced.



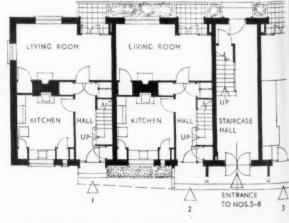
Third floor plan



Second floor plan

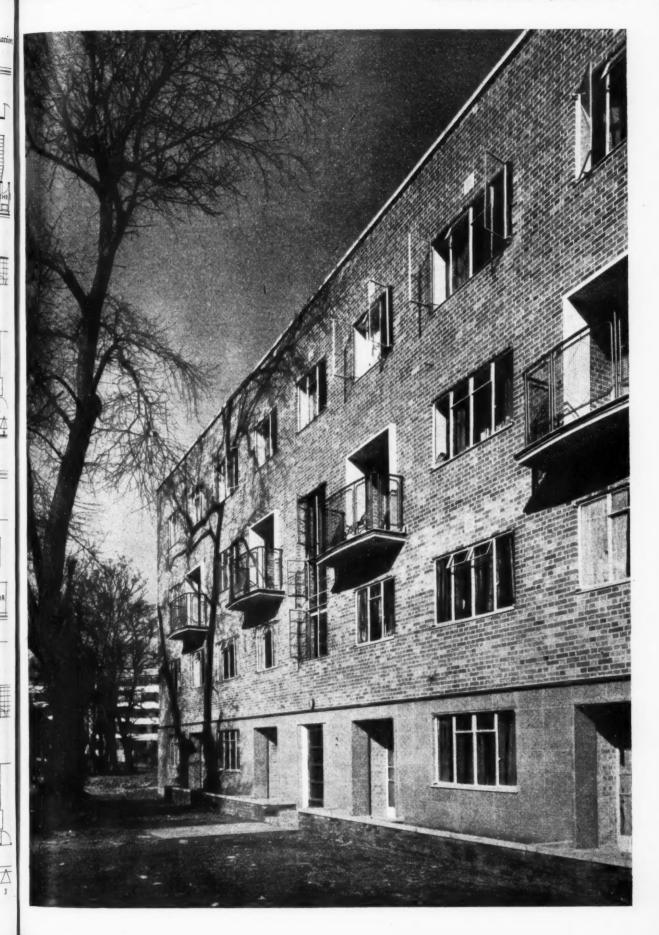


First floor plan



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





### MAISONETTES

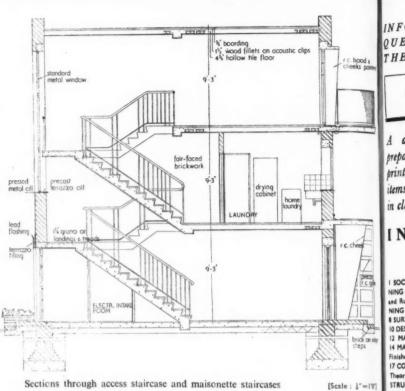
at the ROUPELL PARK ESTATE, WANDSWORTH, LONDON designed by CLIFFORD E. CULPIN

SERVICES .- Each flat is provided with an independent boiler. All drainage and plumbing is concealed and carried in ducts. Gas and electric points are provided in the kitchens for cookers. An extra electric point is provided for a refrigerator which can be housed in a recess that has been provided. Each block has a small communal laundry. An electric washing machine and a gas-heated drying cabinet have been provided in each.

The general contractors were Messrs. MacNee & Partners, Ltd. A list of sub-contractors appears on page 502.

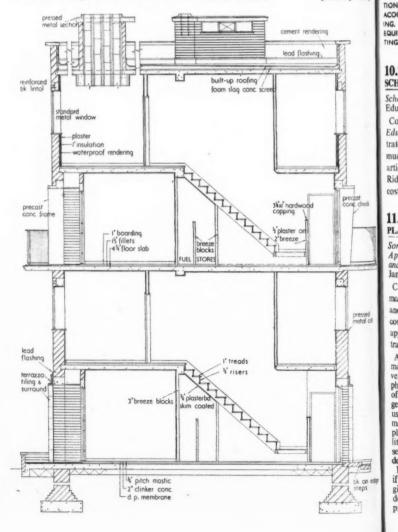
The entrance front.





Sections through access staircase and maisonette staircases





INFORMATION SHEETS INFORMATION CENTRE QUESTIONS AND ANSWERS . CURRENT TECHNIQUE THE INDUSTRY . PRICES . TECHNICAL ARTICLES

### TECHNICAL SECTION

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

### INFORMATION CENTRE

SOCIOLOGY. 2 PLANNING General. 3 PLAN-NING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING : Public Utilities. 6 PLAN-NING: Social and Recreational. 7 PRACTICE. SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General.
12 MATERIALS: Metal. 13 MATERIALS: Timber.
14 MATERIALS: Concrete. 15 MATERIALS: Applied finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: 19 CONSTRUCTION : Details, 28 CON-STRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION-ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHT-ING. 25 WATER SUPPLY, SANITATION. 26 SERVICES EQUIPMENT: Miscellaneous. 27 FURNITURE, FIT-TINGS. 28 MISCELLANEOUS.

#### 10.74 design: building types SCHOOLS

ck on eig

e: 1"=1"01

his on edit

School Construction, 1949. (Councile Education Press Ltd., 1950. 10s. 6d.) (Councils and Collection of reprints of articles in Education. Variety of school building illustrated but mostly rather general without much detail of construction. Includes special article on five Primary Schools in the North Riding with tabulated data on sizes and

#### 11.22 materials: general PLASTIC VENEERS

Some Practical Notes on the Nature and Application of Laminated Plastic Veneers and Panels. S. P. Jordan. (RIBA Journal, Jan., 1950, pp. 105-8.)

Classification of groups, description of manufacture, recommendations for handling and stacking, principles of use, quality and cost, physical characteristics, hand tooling, application, decorative possibilities. Illus-

A commendable factual account of the manufacture and application of plastic veneers, with particularly useful notes on physical characteristics and on the means of applying and using the panels. The suggestion for potential applications are less useful since it must be above these these useful, since it must be obvious that there may be a situation in any building where plastic panels may be suitable, and there is little value, therefore, in listing a whole series of buildings merely for the sake of doing so.

Nevertheless, the article is worth reading, if only for the rather specialized information given about the reproduction of special designs (i.e., letterpress printing, silk screen printing, hand drawn designs, etc.).

#### 12.42 materials: metal ALUMINIUM ROOFING

Aluminium: Its Application to Roofing. H. Ryland. (The Plumbing Trades Journal. Jan., 1950. pp. 45-7.)

Claims made as to the general usefulness of aluminium as a permanent substitute for more familiar materials (such as cast iron in rain water goods); brief reference -but no definite recommendations-to corrosion resistance; description of aluminium roofing, with specific reference to the housing scheme at Shepperton, Middlesex. Twenty-two gauge sheeting is used on a base of fibre boarding. The article is illustrated with diagrams of fixing methods.

### 15.73 materials : applied finishes and treatments SHEET MATERIALS

Materials. D. B. Bullivant. (Architectural Design, Jan., 1950.

First of a series of articles designed to classify and compare building boards and other sheet materials at present available.

The main headings of the series are: Introduction and visual recognition. Manufacture. General Properties: fibre building boards; plywood and sandwich board; sheet plastics and resin bonded materials; plaster board; asbestos cement sheets; wood, wood and compressed straw slabs. Preparation for use. Economic aspects Preparation for use. Economic aspects. Specification. Should be a useful series to collect for reference in the office.

#### 15,74 materials : applied finishes and treatments REPAIR OF STUCCO

The Maintenance and Repair of Regency Painted Stucco Finishes. G. E. Bessey (RIBA Journal, Feb. 1950, pp. 143-145.)

Historical background, nature of materials used, results of practical tests, recommendation for repair and maintenance.

A very valuable article, dealing in a thoroughly practical way with the precautions necessary to ensure the satisfactory repair of stucco. The historical survey, with notes on the names and manufacture of various patented cements is of great interest and is also of significance in understanding the recommendations made for repairing stucco with the different materials now availab'e It is pointed out that "Roman Cement," which was largely used in stucco " Roman work is not now readily available, and it is stated that even if it were it does not appear to have any particular advantage.

Previous recommendations for repairing stucco have included the following mix which is also mentioned in this article:
High alumina cement, ground chalk or Whiting and sand, in the proportions

Whiting and sand, in the proportions 1:1-1½:5-6.
It is significant, however, that this mix,

which, being unusual would be less readily specified, is mentioned only as an alternative, and that the more normal mixes which are becoming regular practice for render-

ing, such as 1:2:9 cement, lime, sand mix. are thought to be quite suitable provided the necessary precautions in painting are taken. These mixes have been used successfully in a number of trials.

An article which should be cut out and

### 16.61 materials: miscellaneous RUBBLE STONEWORK

Masonry-Rubble. Draft BSC of P 121.202 (British Standards Institution. 1949. 66.)

Materials for the design and construction of rubble masonry walls.

The Code commences with a list of definitions, some of which may not be familiar to architects without experience in this material. Scottish terms are also given. The different methods of shaping and bonding rubble walls are clearly described and well illustrated by photographs.

Recommended minimum thicknesses are given and there are useful diagrams on dampcoursing, which requires rather different treatment than for brick walling. There are also details for beam ends, etc., but it is consolited to be a forward to see the Code

is annoying to be referred to another Code for advice on chimneys and flues.

A table of recommended mortars is preceded by the statement that it is wise to have a mortar so compounded that its strength is similar to that of the unit it binds. This seems to be a singularly useless remark unless amplified by instructions on how to

unless amplified by instructions on how to achieve such a result. In any case what does "Strength" mean?

It is interesting to find that pointing as the work proceeds is definitely preferred to raking and pointing.

The "work on site" clauses include a description for preparation of putty lime and for cement and lime mortars, and there are useful instructions about the general laying useful instructions about the general laying technique.

### 18.46 construction: theory MANUAL OF BUILDING SCIENCE

Manual of Building Science, John F. Douglas and Lintott Kent. (Pitman, London, 1949, 18s.)

A textbook for students at National Certificate and other courses of similar standard. Only vaguely related to building. 221 pp., 179 illustrations.

#### 22.45 sound insulation and acoustics SOUND INSULATION IN FLATS

The Problem of Acoustics in Apartment Buildings. R. H. Holt and R. B. Newman. (Architectural Forum [USA], Jan., 1950. p. 120.)

Standards of insulation, common mistakes in construction, planning. Interesting, well illustrated.

This is the first good article on sound insulation in an American architectural journal for several years. Americans have been so quiet about their noise problem that people elsewhere were beginning to wonder if they had one. Apparently they have, for some figures of annoyance are given which are roughly similar to the BRS data. Standards referred to are the ones used in this country and to are the ones used in this country and there are courteous references to British work on the subject. Like so many articles dealing essentially with construction in dealing essentially with construction in other countries the details given necessarily have chiefly a local application. The illus-

trations are good.

For people to whom prophets are, at times, without honour, the article is a

useful corrective.

Prices are for work executed complete and are for an average job in the London area; all prices include overhead charges and profit for the general contractor.

### CURRENT PRICES FOR MEASURED WORK

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

For Rates of Wages and Market Prices of Materials see THE ARCHITECTS' JOURNAL for April 6.

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PRELIMINARIES		
To all valuations for measured work add for Water and Insurances, according to the na- (say)		11%
EXCAVATOR		
Excavation		
N.B.—The following prices are applicable to soil.	hand excavation	in heavy
Surface digging, 6" deep	per yard super	-/9
Ditto, 12" deen	per yard super	1/54
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	6/1
Excavating not exceeding 5' 0" deep to form	k	-1-
basement	per yard cube	6/10
Ditto, exceeding 5' 0" and not exceeding		0/10
10' 0" deep ditto Excavating not exceeding 5' 0" deep to form	per yard cube	9/10
surface trenches	per yard cube	8/4
Ditto exceeding 5' 0" deep and not exceeding	are and only	11/4
10' 0" deep ditto Excavating not exceeding 5' 0" deep to form	per yard cube	11/4
basement trench, commencing 10' 0" deep	per yard cube	14/4
Disposal		
Returning, filling and ramming around		
foundations Wheeling excavated soil not exceeding 100	per yard cube	2/8
yards and depositing	per yard cube	3/-
Ditto and spreading and levelling Ditto, ditto, and consolidating to make up	per yard cube	3/11
levels under floors and pavings	per yard cube	5/-
Filling into lorries and carting away	per yard cube	10/7
Planking and Struttin	ig	
Planking and strutting to sides of surface or basement excavation not exceeding 5' 0"		
, deep	per ft. super	-/5
Ditto not exceeding 10' 0" deep	per ft. super	-/6
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both	1	
sides measured)	per ft. super	$-/1\frac{1}{2}$
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	$-/3\frac{1}{2}$
CONCRETOR		
Concrete (Basic Price	es)	
Portland cement concrete 1:3:6 with 11/2" coarse aggregate in foundations and		
masses exceeding 12" thick Ditto 1:2:4 with \ddash" coarse aggregate ditto	per yard cube per yard cube	$\frac{52}{-}$ $\frac{50}{6}$
Add to Basic Prices fo		

Working around rod or mesh reinforcement Being in beds less than 12'' thick (6''-12'') per yard super Ditto less than 6'' thick (3''-6'') per yard super

### CONCRETOR—(continued)

Being in small quantities not exceeding 3'		
cube	per yard cube	12/1
Being in suspended floors and roofs	per yard cube	9/1
Being in walls not exceeding 6" thick	per yard cube	10/7
Ditto exceeding 6" but not exceeding 12"		
thick	per yard cube	6/1
Ditto exceeding 12" thick	per yard cube	3/-
Being in lintels, beams, etc., not exceeding		
72 sq. in, sectional area	per yard cube	13/8
Ditto exceeding 72 and not exceeding 144 sq.		0.18
in, sectional area	per yard cube	9/1
Ditto exceeding 144 sq. in. sectional area	per yard cube	6/1
Being in columns not exceeding 72 sq. in.	1 - 1 -	01 /0
sectional area	per yard cube	21/2
Ditto exceeding 72 and not exceeding 144 sq.	war wand auba	13/8
in, sectional area Ditto exceeding 144 sq. in, sectional area	per yard cube	9/1
Ditto exceeding 144 sq. in. sectional area	per yard cube	3/1
Formwork		
Close boarded formwork and supports to		
	per yard super	17/10
	nor word sunce	14/3
measured) Ditto to sides and soffites of lintols and beams	per yard super	1/101
Add to any of the above for wrot formwork	per re. super	1/102
and rubbing down concrete	per vard super	1/101
	r J	
Reinforcement		
\$" to 1" diameter mild steel rod rein-		
forcement, hooked, bent and tied at		
intersections as required and fixing in		
concrete	per cwt.	34/4
½" diameter ditto	per cwt.	37/-
‡" diameter ditto	per cwt.	46/6
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super,		
well lapped at joints and embedded in concrete		2/6
Ditto weighing 9-32 lb. per yard super ditto		4/10
Ditto workning a. az to. per yard super ditto	per yaru super	11 10

#### BRICKLAYER

Common Br	ickwork		
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) Add to the above:—	per yard super	Flettons 22/8	Rough stocks 27/5
If in cement mortar (1:3)	per yard super per yard super		-/2 $3/10$
Ditto to quick sweep Half brick wall in cement lime mortar			7/9
(1:3:9)	per yard super	12/6	15/-
with a neat flush joint	per yard super	14/1	16/6

	Тн	ARCI	HITEC	rs'.	OUR	NAL	f
BRICKLAYER—(continued	l)						
				Flett	ons s	lough	
One brick wall built fair and po	joint p	er yard :	super			27/9	
il" hollow wall with 2" cavity	and p					30/3	
Engine	ering Br	ickwork		ingfie Engir	n-	Blue	
Reduced brickwork one brick the cement mortar (1:3) Half brick wall in cement mortar	р	er yard	super	32/9	uts b	ressec oricks 53/3 28/3	
Ditto built fair and pointed both with a neat flush joint One brick wall built fair and dit	sides p	er yard	super	19/8		30/4	
	Sundries		super	001		01/-	
Extra for internal fair face and pointing	of two	er yard	super		-/1	1	
courses of slates and bedding pointing  Ditto of hessian base bitumer	1	per foot	super		2/9		
lapped at joints  Fixing only metal window, size I  4'0", including cutting and pi lugs to brickwork, bedding f	′8″×	per foot	super		-/7		
and pointing in mastic one sid Ditto, 3' 3" × 4' 0" ditto	de		each each		6/5 10/-		
Ditto, 6' 6" × 4' 0" ditto			each		17/7		
Breeze concrete solid parti-	Partition		2" 2	1"	3"	41"	
tion blocks to B.S. 492 and setting in cement mortar Hollow clay partition blocks	er yard s	uper 6	3/9	7/10	9/-	11/4	ŀ
to B.S. 1190, keyed on both sides and ditto pe Moler hollow partition blocks, keyed on both sides and	er yard s	uper 6	3/8	7/5	8/10	10/9	9
	er yard s	uper 11	1/2 1	3/4	15/-	17/	2
	Facings				facir 1,05	hite lazed ngs p 20/- I	.c.
Extra over common brickwork	٠		Ordi	narv	stre	etcher 06/3-1	M
built with bricks p.c. 85/-M for facings as described, and pointing with a neat weath-			faci p.c. 191/-	ngs, p.c. 216/0	and ing 8 w	poing with	t-
ered joint:— To solid wall in Flemish bond To cavity wall in stretcher	per yar	d super	M. 11/5	M. 13/3		ment 71/10	
	per yar	d super	9/5	10/1	0 1	55/6	
with snapped headers Half brick wall in facings in stretcher bond built fair and	per yar	d super	10/10	1 12/	7	_	
pointed one side with a neat weathered joint Ditto pointed both sides One brick wall in facings built	per yar per yar	d super d super				_	
fair and pointed one side Ditto pointed both sides Brick on end flat arch in facings	per yar	d super d super		39/1 42/8		_	
4½" on soffite and 9" high and pointing Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint,	per i	oot run	2/41	2/6	ş		
two cement angle fillets and pointing		foot run	3/9	3/	101		
ASPHALTER	Tankin	g			B.S. '	To B.	
Horizontal asphalt tanking in thicknesses on brick or conc	rete	per yar	d supe	r 15	5/-	25/	2
Vertical ditto	Roofin	per yar	d super		B.S.	28/ To B	
t asphalt flat in two thickne	sses on			98		116	
and including felt underlay	****	per yar	d supe	r 11	/3	18/	11

include

RK

12/1 9/1 10/7

6/1 3/-13/8 9/1 6/1 21/2

13/8 9/1

17/10 14/3 1/10} 1/101

34/4 37/-46/6

 $\frac{2}{6}$   $\frac{4}{10}$ 

Rough stocks 27/5

-/2 3/10 7/9

15/-

16/6

ASI II/AL I EN-ICOMUMENT	tinued)	ASPHALTER-
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ASPHALTER—(continued	d)					
					To B.S. 988	To B.S. 1162
3" asphalt skirting 6" high wit	h angle				000	1102
fillet at bottom and round turned into groove		p	er foot	trun	1/11	2/41/2
4" asphalt fascia 6" high with	h solid	P			-,	-1-2
water check roll at top and cut drip at bottom	under-	p	er foot	trun	$2/7\frac{1}{2}$	3/2
DRAINLAYER						
N.B.—The following prices an	nches at			ad ou	tion	in booms
soil, only requiring planking as Excavate trenches for 4"-9" planking and strutting, fill	nd stru pipes, ing in	tting inclu- and r	for deding			
ming, and wheeling and spre For each 12" in depth, f	or tren	arplus	not			
exceeding 3' 0" deep Ditto for trenches excee			and	per	yard run	2/5
not exceeding 5' 0" deep Ditto for trenches exceed			and	per	yard run	3/7
not exceeding 10' 0" deep				per	yard run	6/2
6" concrete (1:3:6) bed and for pipes 6" ditto, and surround		ing	per y		4" un 5/5 un 12/4	6" 6/5 14/10‡
,	Drais					
Clayware butt-jointed land			3	"	4"	6"
drains and laying in trench "Seconds" quality glazed	per foo	t run	-	34	-/4	$-/7\frac{1}{2}$
stoneware socketed drains and laying and jointing in			4	N	6"	9"
trench "British Standard" quality	per foot	t run	1	/7 <u>1</u>	2/4	$3/8\frac{1}{2}$
ditto	per foot	t run	1	101	2/9	4/5
Extra on "Seconds" qual- lity for bends		each	1	11	2/10	4/-
Ditto "British Standard" quality ditto		each	2	31/2	$3/4\frac{1}{2}$	5/111
Extra on "Seconds" quality for single junction		each	3	/1	4/5}	6/4
Ditto "British Standard" quality ditto		each		/7 <u>1</u>	5/3	8/111
Cast iron socketed drains to		cach			010	0,1-2
B.S. 437 and laying and jointing in trench	per foo	t run	9	/-	14/-	27/8
Extra for short radius bend (Fig. No. 4)		each	18	/6	36/3	103/7
Extra for single junction (Fig. No. 18)		each	33	/6	65/-	193/2
•	Fittings	s, etc.			4"	6"
Glazed stoneware trapped guized grating and outlet and				each		29/-
Ditto with vertical inlet ditto				each		32/3
Cast iron trapped gulley with ing, and 4" outlet and setti	ng in co			each		-
Ditto with vertical inlet ditto Glazed stoneware intercepting	trap wi	ith in	spec-	each	49/9	_
manhole and jointing to dr	ain and	HXII		each	47/6	54/10
Brown glazed stoneware ha channels and bedding and						
mortar Ditto ordinary channel bend		]	per foo	each	1/6	2/3 6/3
Cast iron coated single seal n frame to B.S. 497 Grade C	nanhole	cover	rame			" 24"×24"
in cement and cover in gre Galvanized ditto				eacl	32/10	45/10 76/10
				cuci	02/10	10/10
PAVIOR Cement and sand (1:3)	floated				3" 1	11"
screed to receive pavings Ditto trowelled smooth to		per y	ard su	per		$/9\frac{1}{2}$ $\frac{3}{4}/3\frac{1}{2}$
linoleum		per y	ard su	iper	$3/4\frac{1}{2}$ 4	/1 4/7
Cement and sand (1:3) trowelled hard and smooth		per y	ard su	iper		/11 4/71
Granolithic paving (1:21)		per y	yard sı	iper	$\frac{1''}{5/2\frac{1}{2}}$ 5	$\frac{1}{6}$ $\frac{1}{1}$ $\frac{1}{6}$
	****			per	yard supe	er 15/9
§" Terrazzo paving (Portland	d cemen	t and	spar	per	yard sup	er 34/1½
aggregate) laid on prepare Extra for white or cream cer \( \foating \) Rubber flooring in all co	lours, la	aid or	pre-			
pared screed $\frac{1}{8}'' \times 12'' \times 12''$ Rubber tile	flooring	ditto		per	yard supe	or 34/11 er 28/101
8 × 12 × 12 Kubber the	Hooring	viii to		Per .	yara supe	well soil

PAVIOR—(continued)	CARPENTER—(continued)
1" × 12" × 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished per yard super 34/1½	Ditto and framing in ridge per foot cube 14/9 Ditto in hip and valley rafters including cutting rafters to sides per foot cube 16/6
Mard red paving bricks p.c. 309/6 per M. laid flat on prepared bed in cement mortar per yard super 17/4	Battening and Boarding
1" Ditto laid herringbone per yard super 19/2  " × 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints per yard super 20/6 21/9	$\frac{3}{4}$ × $1\frac{1}{2}$ Battens nailed to softwood for slopes hanging 20" × $10$ " slates to $8\frac{1}{2}$ " gauge per square $24/2$ 25  Ditto $16$ " × $10$ " slates to $6\frac{1}{4}$ " gauge per square $28/10^2$ slates to $6\frac{1}{4}$ " gauge per square $28/10^2$ per square $28/10^2$ slates to $6\frac{1}{4}$ " gauge per square $28/10^2$ slates to $6\frac{1}{4}$ " slates to
	Ditto $10\frac{1}{2}'' \times 6''$ tiles to 4" gauge ( $4\frac{1}{2}$ " for
$^{\prime\prime}$ $\times$ 6" Buff quarry tiles as last per yard super 21/6 23/10 $\frac{1}{2}$	vertical hanging) per square $39/4\frac{1}{2}$ $39/8$ Roof Slopes Mansar Ditto $14\frac{1}{2}$ " $\times$ 10" pantiles to 12" gauge per square $16/10$ 17/
MASON	Ditto 15" × 9" concrete interlocking
ortland stone and all labours in pilasters, quoins, jambs, lintols, etc. per foot cube 34/8 itto in arches, columns, cornices, etc. per foot cube 43/1	tiles to $12''$ gauge per square $16/10$ $17$ . Roof boarding in batten widths close jointed and fixed to flat or sloping roofs per square $89/5$ $111$ . Ditto tongued and grooved and pre-
shlar av. 6½ on bed with plain dressed face per foot super 18/11 Port-Arti- ortland stone or artificial stone to land ficial	pared for felt roofing including firring to falls per square 148/5 173 Sawn gang boarding fixed to joists in roof per foot super 1/- 1
B.S. 1217:—  2" × 4" Sill, sunk, weathered, throated and grooved for water bar, set and	Wrot and crosstongued eaves soffite per foot super 1/7 1/16" Wrot and grooved eaves fascia planted on per foot run -/7 -
jointed in cement mortar per foot run $6/4$ $3/4$ per foot run $7/4$ $4/10$	Wall and Ceiling Boards
" × 12" Coping, weathered and twice throated, set and jointed as last per foot run 6/10½ 4/5	½" Fibre board to B.S. 1142 fixed with Verti-
$7 \times 12''$ Ditto per foot run 9/5 6/6 $7 \times 12''$ Saddle back coping twice	galvanized flat headed nails to softwood cally Soffit wood per yard super 5/4 5 5/8" Asbestos cement flat sheeting to
throated, set and jointed as last per foot run 15/9 10/4	B.S. 690 fixed as last per yard super 4/4 4 4 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4
SLATER, TILER AND ROOFER  Slates	
$20''  imes 10'' \ 16''  imes 8''$	JOINER Floors and Skirtings
est Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two	(All thicknesses stated are nominal)
stout copper nails per square 225/- 210/- itto hung vertically to dormer cheeks and gables per square 236/3 225/-	Plain edge softwood flooring in batten widths nailed to floor joists per square 106/9 118/6 14: Tongued and grooved ditto per square 114/- 126/3 15
Tiles.	1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic
Best sand faced plain (nibbed) tiles to Hand Machine made B.S. $402$ , $10\frac{1}{2}'' \times 6''$ laid to a $4''$ gauge with each tile in every fourth course	composition on prepared screed and wax polished:— Swedish softwood English Beech per yard super 24/
nailed with galvanized nails per square 141/9 133/10½  http://discourse.com/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/square/linear/squ	European Beech per yard super 31/ English Oak per yard super 45/ European Oak per yard super 39/ Burma Teak per yard super 46/
nailed with galvanized nails per square $136/6$ $131/3$ Berkshire hand made sand faced red pantiles $14\frac{1}{2}$ × $10$ laid to $2\frac{1}{2}$ head and $1\frac{1}{2}$ side laps,	Softwood skirtings with splayed or Sectional area molded top edge, planted on (per inch 3" to 6" Ove
each tile in every third course nailed with galvanized nails per square 141/9	sectional area) per foot run -/2¼ -/5  Extra for grounds plugged to brickwork per foot run
Ditto to mansard slopes per square 149/7½ concrete plain (nibbed) tiles to B.S. 473, 10½"	Windows in Softwood
× 6" laid as before described for plain tiles per square 86/8  Ditto hung vertically to dormer cheeks, and	Rebated and molded softwood fanlights and casement sashes divided into squares for glass per foot super 2/5½ 2/52 type for banging each 4/11 4/11 4/11 4/11 4/11 4/11 4/11 4/1
gables, ditto per square 89/3 concrete interlocking tiles $15'' \times 9''$ laid to $3''$ lap, each tile in every third course nailed with galvanized nails per square $76/1\frac{1}{2}$	Extra for hanging each 4/11 4  Cased frames with 6" × 3" Oak sill and 2"  molded double hung sashes including
Ditto to mansard slopes ditto per square 84/ Asbestos Cement	pulleys, line and weights per foot super — 8  N.B.—The above prices are for purpose made joinery. Stand pattern casement windows and double hung sashes and frame
"Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1½ corrugations	B.S. 644 are cheaper.
and an end lap of 6" per square 65/8½	Doors in Softwood Framed ledged and braced doors
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts per square $2/8\frac{1}{2}$	filled in with 1" T. & G. and V- jointed boarding and hanging per foot super $4/4$ $4/10\frac{1}{2}$ 5 Four-panel door, square both sides
Felt  Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with	and hanging per foot super $3/3$ $3/6$ $3$ Ditto molded one side per foot super $3/6$ $3/9\frac{1}{2}$ 3 Ditto molded both sides per foot super $3/6$ $3/9\frac{1}{2}$ 4 $3/9\frac{1}{2}$ 4
galvanized clout nails per square 18/11 Two Three	N.B.—The above prices are for purpose made doors. Stan- panelled doors to B.S. 459 are cheaper.
One-ply bitumen felt to B.S. 989 laid on layer layer concrete. Each layer bedded in hot bitumen per yard super 6/4 8/5	panelled doors to B.S. 409 are cheaper. $\frac{1}{4}$ " Standard flush doors 2' $6$ " $\times$ $6$ ' $6$ ", internal pattern  each 8  2" Ditto external pattern  each 8
	Linings, Frames, etc., in Softwood 4
CARPENTER Carcassing	Window and door linings etc. (per inch Up to 6" 6" to
Softwood, sawn and fixed, in plates, sleeper joists and lintols per foot cube 12/1	in sectional area) per foot run/3 Frames wrot all round and framed
Ditto in floor and ceiling joists per foot cube 13/7 Ditto in stud partitions per foot cube 14/11	(ditto) per foot run $-/2\frac{1}{4}$ — Mullions, transomes and cills (ditto) per foot run $-/2\frac{1}{4}$ — $-/2\frac{1}{4}$ — $-/2$ to $4$ $-/2$ $-/2$
Ditto in rafters per foot cube 14/9 Ditto in purlins and struts per foot cube 14/11	Moldings, architraves, etc. (ditto) per foot run -/2

Rusty windows
cause extensive glass
breakage from expansion,
are dangerous, and make
unsightly stains on cills.
Constant scraping and
repainting is expensive
and no cure.

Specify
HOPE'S
HOT-DIP GALVANIZED
WINDOWS
and
Avoid Corrosion

39/4

14/9 16/6

17/4 17/4 17/4 11/4

173/3 1/2½ 1/10 -/9

5/5 5/5 4/8} 5/6

14″ 142/3 151/-

24/3 34/9 31/6 45/3 39/4 46/3 area Over 6°

Over 6' -/21 5

2/9 4/11 8/6 andard

2" 5/· 3/7 3/10<del>1</del> 4/2

84/3 89/9

-/2½
-/2½
-/2½
-/2½
-/1¾

DESIGN Fabrication Erection

> BOULTON PAUL LTD

Filming "Edward, My Son" produced in the new M.G.M. British Studios at Elstree. We fabricated and erected the steel structure, using 1020 tons of steel.

JC

Architects:
GUY MORGAN AND PARTNERS,
F.F.R.I.B.A.

General Contractors: SIR ROBERT McALPINE & SONS

STEEL CONSTRUCTION . WELDED OR RIVETED



DEPT: C.E.2

LONDON

BIRMINGHAM

### JOINER-(continued)

6" Window b	oards	with rou	nded	nos-		Thick	ness
ings, tongu	ed at 1	oack and	inclu	ding		1"	11"
bearers				0	per foot run	2/3	2/5
9" Ditto					per foot run	2/5	2/8
		Shelving	and I	ittin	gs in Softwood		
Shelving of 2	" slats	spaced I	" apai	t on		3"	1"
bearers (m					per foot super	1/81	2/1
Shelving on					1 0 . 1	2/-	2/7
					per foot super	2/41	3/-
Shelving 9" v					per foot run	1/6	1/11
2" Shelf bear						-/9	-/9
The following	g in fra	med up	cupbe	pard	fittings :-	,	,
T. & G. & V.	jointe	d back			per foot super	1/10	2/-
Crosstongue	l top,	bottom	shelf	or			,
division					per foot super	$2/3\frac{1}{2}$	2/7
					per foot super	4	/10
Labour rebat	e or gr	0000			per foot run		$/2\frac{1}{4}$
Ditto cross-g	rain				per foot run	-	31
1" × 2" Bear							
N.B.—The	abov	e prices	are	for p	ourpose-made cu	pboard	fittings.
Standard par	tern k	itchen fi	ttings	to B	.S. 1195 are chea	aper.	

### IRONMONGERY

INOTATION OF THE						
					Soft- wood	Hard- wood
3" Steel butts (medium qualit	v)			per pair		1/9
4" Ditto (ditto)				per pair		2/2
Double action floor springs a	nd t	top ee	entres			
including filling boxes with				each	131/-	135/10
Overhead check action door sp	ring	s. P.(	0.55/-	each	69/6	72/6
6" Barrel bolts. P.C. 3/3				each	4/101	$5/2\frac{1}{2}$
Cupboard locks. P.C. 5/9				each	9/-	9/11
Norfolk latches. P.C. 4/2				each	$8/2\frac{1}{2}$	9/41
Cylinder night latch. P.C. 9	/6			each	15/-	16/6
Mortice latch. P.C. 7/-				each	11/4	12/6
Rim lock. P.C. 7/6				each	11/	11/101
Mortice lock. P.C. 11/-				each	16/8	18/2
Door furniture. P.C. 16/-				per set	18/6	18/6
Sash fasteners. P.C. 5/6			****	each	7/6	8/-
Casement fasteners. P.C. 5/6	3		****	each	7/14	7/6
Casement stays. P.C. 8/-				each	9/101	10/3

### STEEL AND IRONWORKER

Structural Steetwork				
The following prices are for Basis sections (5"	× 41" to	16"	X	6")
only. Prices for other sections vary roughly in pro	portion to	the	pr	ice
of the steel. Ex mills-see "Current Market Prices	of Mater	ials	22	
R.S.J.—in steel framed structures hoisted and fixed		£	8.	d.
complete	per ton	45	3	0
complete Riveted compound girders including plates and				
rivets	per ton	49	7	0
R.S. Stancheons including caps, bases, cleats, etc	per ton	50	18	6
Riveted compound stanchions ditto	per ton	52	10	0
Riveted roof trusses with flat and angle members,				
plates, cleats, etc., 30' span	per ton	70	6	0
Ditto 40' span	per ton	68	5	0
Sundries				
Simple wrot iron balustrades fixed complete				
(excluding mortices etc.)		7	15	0
Bolts with heads, nuts and washers and fixing				

### PLASTERER AND TILE FIXER

tiling on ditto ....

24 gauge expanded	metal	lathing	and f	ixing	to			
softwood soffites						per	yard super	5/-
			-	-				

softwood soffites per yard	d super	5/-
Lime and Gypsum Plaster		
Three coat lime and two coat Sirapite or		
similar Gypsum plaster :		Sirapit
On brick walls and partitions per yard super	4/41	3/6
On concrete soffites including hacking per yard super On soffite of E.M.L. (measured separ-	$5/4\frac{1}{2}$	4/6
ately per yard super	4/41	4/8
On and including wood laths, to soffites per yard super	7/8	_
I' Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster per yar	d super	5/9
Plaster moulded cornice or cove (per inch in girth) per f		
	000 1 (41)	/ *
Cement Rendering Rendering in Portland cement and sand (1:4) and setting in Keenes cement on brick walls		
and partitions per yar	d super	4/6
Portland cement and sand (1:3) plain face		
trowelled smooth on ditto per yar	d super	4/1
Portland cement and sand (1:3) screed for		

### PLASTERER AND TILE FIXER—(continued)

#### Wall Tiler

	33/1 40/2 41/6
8	ard super ard super ard super

### EXTERNAL PLUMBER AND COPPERSMITH AND

ZINCWORKER		Flats	Gutters, flash- ings, etc.	flash-
Milled sheet lead and labour 24 S.W.G. sheet copper and	per cwt.	164/1	164/1	171/5
labour 23 S.W.G. sheet copper and	per foot super	$4/2\tfrac{1}{2}$	$4/5\frac{1}{2}$	$4/5\tfrac{1}{2}$
labour 14 gauge zinc and labour	per foot super per foot super	$\frac{4/5\frac{1}{2}}{2/2}$	$\frac{4/9}{2/3\frac{1}{2}}$	$\frac{4/9}{2/7\frac{1}{2}}$

#### Rainwater Pines and Gutters

20101010101010101	y . here come o				
Cast iron medium section (36 metal) R.W. pipes and jointing and fixing to walls with		3"		4'	,
pipe nails and distance pieces		With	With	With	With
or holderbats (cutting and					
		norder.	1101118	noider-	Hams
pinning holderbats measured	C .	bats	0.10	bats	
separately)					
Pressed steel R.W. pipes and					G.
ditto	per foot run	2/101	2/41	3/10	3/31
Asbestos cement R.W. pipes					
and ditto	per foot rur	1/111	-	2/61	_
Asbestos cement R.W. pipes and ditto Cast iron half round eaves	1	4"	,	6	w.
gutter and jointed and fixed		1//	3 #	1"	2 //
gutter and jointed and fixed with brackets to fascia	non fact mus	. 1/111	0/0	3/4	16
Distance Co. Litter	per foot rui			3/4	
Ditto O.G. ditto	per foot rui	1 2/5	3/3	3/8	5/-
18 Gauge pressed steel half					
round ditto	per foot rui	1/1	14	2/1	10
Ditto O.G. ditto	per foot rui	2/5		3/3	3.1
Asbestos cement half round		-/-		-/-	- 2
ditto	per foot rur	1/0	1.1	2/9	11
Ditto O.G. ditto	her root tm	1 2/-		3/-	

#### Soil and Ventilating Pipes

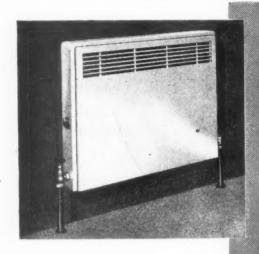
		-0 -	- Pro-			
Lead soil, waste and ventilat- ing pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot	Figure	3 9/		4	// /11
Medium or heavy section cast	per rent	1 UII	3/	U	12	111
iron soil, waste and ventilat- ing pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot		11"	Med- ium 3" 4/3	Heavy 12" 5/10	Med iun 3." 5/7
nans and distance pieces	per 100t	T CELL	2/1	4/0	3/10	9/1

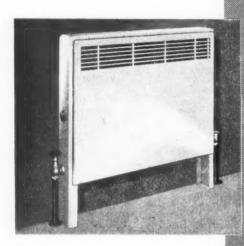
### INTERNAL PLUMBER

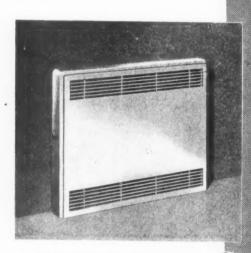
### ${\it Lead~Pipes} \\ {\it Prices~are~based~upon~the~following~weights~per~yard.}$

1b. 11 9 5	1" lb. 16 12·5	11" lb. 21 16 9
11 9 5	16	1b. 21 16
9 5		16
5	12·5 7	
-	7	9
-	_	
		7
3"	1"	11/
4/8	6/8	8/10
5/3	7/4	9/8
,	,	,
4/51	6/01	7/11
3/0	4/0	5/21
_	******	4/61
5/1	5/5	6/11
-/91		1/6
6/11	6/61	7/78
	4/8 5/3 4/5½ 3/0 5/1 -/9½	4/8 6/8 5/3 7/4 4/5½ 6/0½ 3/0 4/0 5/1 5/5 -/9½ 1/0½

Steel Tubes and Fitting	$1g_8$			
Galvanised steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (meas-				
ured separately) per foot run Ditto Class B ditto fixed to walls and ceilings as supply,	1/4	1/7	1/8	$2/3\frac{1}{2}$
distributing, waste pipe, etc. per foot run	1/41	1/8	1/9	2/3
Joints to fittings each	2/101	3/9	4/31	5/2
Bends each	1/8	2/0	2/81	4/0
Tee, equal or reducing each	1/8	2/0	$2/5\frac{1}{2}$	3/6







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AT THE B.I.F.

STAND No. C.300

CASTLE BROMWICH

WELDEX

## WELDEX HEATERS introduce

A NEW RANGE OF

# CONVECTOR HEATERS

Built upon the sound principles embodied in all "Weldex" Steel Gilled Tube Heaters, they are of all welded construction and suitable for the most arduous duties. The three models, Wall Type, Floor Type, and Floor Type with Bottom Grille are made in various lengths, the gilled elements for which have alternative side and bottom connections, and are available in either 2-tube or 4-tube pattern, according to the heating capacity required.

These Convectors are admirably suited for use in Schools, Hospitals, Public Buildings, Hotels. Residences, Theatres, Factories, etc., and are supplied in stoved grey primer finish as standard. Special and two-colour finishes to blend with any colour scheme can also be provided.



### R

INTERNAL PLUMBER—(continued)				
Copper Tubes and Fittings				
Prices are based upon the following gauges :-				
1/2"	3"	1"	14	11
Supply 18	17	16	16	
Distributing, waste, etc 19	19	18	18	
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench mea-		2.10	2 10	
	1/111	2/9	3/3	
Ditto to B.S. 659 as distribut- ing, waste pipes, etc. fixed to walls and ceilings. Coup-		2/2		
	1/10	2/6	3/-	
Brass compression type coup-	0 (20	~ * * *	0.11	
	3/10			
Ditto bends each $4/3\frac{1}{2}$ Ditto tees each $5/8\frac{1}{2}$	5/1	7/34	9/3	\$
Ditto tees each 5/8	0/0	9/10/	14/	4
Sanitary Fittings Fireclay sinks 24" × 18" × 10" including cutting			E s.	d
and pinning brackets to tiled wall. P.C. 60/	0.0		3 16	6
Combined metal sink and drainer 42" × 18" × 8½"				
to bearers (measured separately). P.C. 299/6 Fireday lavatory basin 25" × 18" with taps and towel rail bracket including screwing brackets to	ea	ch 1	3 15	3
tiled wall. P.C. 101/6	ea	ich	6 1	6
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately)				
P.C. 312/	ea	eh 1	8 12	3
cistern and flush pipe, including screwing pan to				
floor and cistern brackets to backboard. P.C. 136/-	ea	ich 1	8 16	3
Ditto with low level cistern. P.C. 148/	ea	ich 1	9 10	6
GLAZIER				
GENERAL STATE OF THE STATE OF T		To	Te	0
18 oz. Ordinary quality sheet glass and glazing with putty in squares not		wood	met	
exceeding 4 ft. sup per foot si	mor	1/0	1/2	)
24 oz. Ditto and ditto per foot si		1/11	1/3	
32 oz. Ditto and ditto per foot si		1/5	1/3	
1" Figured, rolled, and cathedral—un-	apes	1/09	-1	4
	iner	1/3	1/8	5
l' Rough cast and ditto per foot st		1/4	1/6	
tinted and ditto per foot so \$\frac{1}{6}\$ Rough cast and ditto per foot so \$\frac{1}{6}\$ Wired cast and ditto per foot so per foot so \$\frac{1}{6}\$ wired cast and ditto per foot so \$\frac{1}{6}\$ wired cast and where \$\frac{1}{6}\$ wired cast and wher		1/5	1/3	
I' Georgian wired cast and ditto per foot si		1/6	1/8	
Pot 2000 M	Post	210	-1	

GLAZIER—(continued)		
	To wood	
4" Georgian wired polished plate and ditto per foot super 4" Polished plate (glazing quality) and	5/1	5/3
4" Polished plate (glazing quality) and ditto per foot super	4/41	$4/6\frac{1}{2}$
PAINTER		
Whitening, Distemper and Paint on Wall	8	
Prepare and twice whiten plastered walls and		
ceilings per yar Prepare and twice distemper with washable	d super	-/111
distemper on plastered walls and ceilings per yar	d super	1/4
Ditto on brick or concrete per var	d super	1/7
Ditto on brick or concrete per yar Prepare, prime, and paint two coats oil colour	- I	-1.
on plastered walls and ceilings per yar Paint on Metal	d super	2/7
2 60000 000 242 0000		Add for
	Basic	each ad-
	price	ditional
Prepare, prime, and paint one coat oil		coat
colour on general surfaces per vard super	2/6	1/1
Ditto metal casements per yard super	3/10	1/71
Ditto members of roof trusses per yard supe	3/2	1/4
Ditto metal casements per yard supe Ditto members of roof trusses per yard supe Ditto balustrades one side per yard supe Ditto bars, etc., not exceeding 6" girth per yard ru	3/10	1/71
Ditto bars, etc., not exceeding 6" girth per yard run	1 - 8	$-/3\frac{1}{2}$
Ditto small pipe per yard rui Ditto large pipe per yard rui	1 - 8	-/34
Paint on Wood	1 1/3½	$-6\frac{1}{2}$
I dilli on 17 ood		Add for
	Basic	each ad-
Knot, prime, stop and paint one coat		ditional
oil colour on general surfaces of wood-	Price	coat
work per yard supe Ditto on skirtings, rails, frames, etc.,	r 2/9½	1/1
not avanding 2" girth	. /41	/13
not exceeding 3" girth per yard rui Ditto ditto for each additional 3" in girth per yard rui	1 -/44	-/13
Ditto on each equates one side	3/7	$\frac{-/1\frac{1}{2}}{1/5}$
Ditto on sash squares one side per dozen Ditto on large sash squares one side per dozen	6/6	2/6
Stain and Varnish on Wood	1 0/0	210
Prepare, size, stain and twice varnish on		
general surfaces of woodwork per yar Ditto on skirtings, rails, frames, etc. not exceed-	d super	2/10
ing 3" girth per y	ard run	$-/4\frac{1}{2}$
The same of the sa	*	

Ditto ditto for each additional 3" in girth .... per yard run -/4

### Announcements

In January, 1949, the Central Land Board advised charitable bodies in the lodging of "precautionary" claims under the Town and Country Planning Act, 1947, before June 30, 1949, in respect of investment land for which a direction is sought from the Minister of Town and Country Planning under Section 85(5) that it should be treated as functional (i.e., used directly for the purposes of the charity). Similar advice was given in the lodging of "precautionary" claims in respect of land where a charitable body asks the Minister (under Section 85 applies to it. Arrangements were made for questions 1-3 only of Form S.1 (and questions 23 and 24 where relevant) to be filled in, the form to be completed later if the application to the Minister was refused. It was also a condition that the application to the Minister should be submitted not later than March 31, 1950. The Board now announce that for this latter date September 30, 1950, should be substituted.

Clifford E. Culpin, FRIBA, practising as Culpin & Son, has taken into Partnership his chief assistant, Mr. W. W. Ryder, ARIBA. The practice will continue under the style of Culpin & Son, F/ARIBA, chartered architects and planning consultants, 3, Southampton Place, W.C.1.

A film entitled "Basic Military Pile Driving" has been made for the Director of Military Training, the War Office, as part of the Army's instructional film programme for 1949-50. It is primarily for use

by the Royal Engineers as a simple comprehensive introduction to the subject. The film is divided into six parts so that each part can be shown separately at the appropriate times during the different courses of instruction at the Engineer Schools and units; for the convenience of instructors some parts are themselves further divided by sub-titles into self-contained sections.

David Stern, A.R.I.B.A., has opened an office at 26, Wilfred Street, Buckingham Gate, S.W.1 (tel.: Victoria 5321) where he will practise under that title and also in association with Edward H. Barton & Partners, of the same address. Trade catalogues, etc., are invited.

To assist in demonstrating their methods in building cleaning and restoration, the firm of Mossops Ltd., have prepared a short colour film, which was shown at the Scottish Building Centre in Glasgow on March 21 to an audience including architects, surveyors, builders and others interested in this work. The film (the first of a short series) shows examples of completed work of various ages, including a building cleaned over twenty years ago, and still contrasting favourably with its uncleaned neighbours. The film also contains short sequences illustrating the progress of a job from start to finish—the preliminary survey, the arrival of men with equipment, the work in progress and the finished building are all shown in colour, thus enabling a clear impression of the results to be obtained. The film is linked with a permanent exhibit at the Building Centre, which includes, in its present form, photographs, models and specimens of

twenty widely varying building stones in common use, to illustrate the effect of cleaning.

Cecil C. Handisyde, A.R.I.B.A., A.A.DIP., has moved his offices to 68, Great Russell Street, W.C.1.

The Confederation of Master Painters, which constitutes representatives appointed by the Federation of Painting Contractors Ltd., the National Federation of Master Painters and Decorators of England and Wales, and the National Federation of Master Painters in Scotland, will in future be known as the Confederation of Painting and Decorating Trade Employers, and the offices will remain at 53, St. Stephen's House, Westminster, S.W.1.

The WDC announce that during 1949 they paid out £105,000,000. The Commission have now made 3,567,000 separate payments totalling £856,000,000. Contributions paid by property-owners during the war totalled £195,000,000. There were 371,000 claims paid for "cost of works" repairs during the year and 57,000 payments on account. The total for "cost of works" was £80,000,000, of which £76,000,000 was paid to private owners and £4,000,000 to local and other public authorities. Nearly three-quarters of this figure was for the repair and rebuildings of houses. Other principal items were: factories, £7,000,000; commercial buildings, £6,000,000; shops, £2,000,000; churches, £1,500,000. Value payments for "total loss" properties accounted for £25,500,000, of which £8,000,000 related to houses. The number

of cases where owners sent specifications of proposed repairs to the Commission for agreement before beginning the work rose from 59,000 in 1948 to over 83,000 in 1949.

Mr. John Lacey, A.R.I.B.A., A.M.T.P.I., has moved his office from 37, Hampstead Lane, N.6, to 1, Gower Street, W.C.I (tel.: Langham 5161).

Mr. Sidney W. B. Flavel, B.Sc., has resigned from the board of directors and from the employ of Sidney Flavel & Co. Ltd.

The Cement Marketing Company Ltd. has now vacated the offices in Ashley Gardens, S.W.1, and has returned to Portland House, Tothill Street, S.W.1 (tel.: Abbey 3456.)

The address of the London Branch of The Universal Asbestos Manufacturing Co. Ltd., Watford, has been changed to 8, Upper Grosvenor Street, Grosvenor Square, W.1 (tel.: Grosvenor 5411/2/3.)

The Amalgamated Society of Woodworkers, 161, Wilmslow Road, Withington, Manchester 20, have changed their telephone number to Didsbury 6174-5.

Messrs. B. Stevens & Partners, Chartered Architects & Surveyors, of 31, Cornfield Road, Eastbourne, have now opened an office at 49, Havelock Road, Hastings, where they will be pleased to receive trade catalogues.

### Buildings Illustrated

South Side Court and Southview Court, Clapham Common South Side, S.W.4 (pages 486-489). Architect: W. H. Beesley, A.R.I.B.A., General contractors: Flowitt & Co. Ltd. Sub-contractors: Reinforced concrete, balconies, floors, staircase, fireproof construction, Phillips Floors Ltd.; bricks, Erith & Co. Ltd.; artificial stone, The Kendalls Stone & Paving Co. Ltd.; structural steel, metalwork, H. & C. Davis Co. Ltd.; special roofings, Broderick Insulated Structures Ltd.; glass, E. A. Murphy; woodblock flooring, Vigers Bros. Ltd.; patent composition flooring, The Veitchi Co. Ltd.; patent flooring, Pilkington's Asphalte Co. Ltd.; central heating, grates, boilers, Ideal Boilers & Radiators Ltd.; gas fixtures, gasfitting, The South Eastern Gas Board; electric wiring, electric light fixtures, electric heiting, The London Electricity Board; ventilators, Greenwoods & Airvac Ventilating Co. Ltd.; plumbing, sanitary fittings, Clark & Fenn; door furniture, C. & S. Allgood; casements, Crittall Manufacturing Co. Ltd.; decorative plaster, Whitney-Fairchild (Marketing) Ltd.; metalwork, H. & C. Davis & Co. Ltd.; joinery, E. H. Smith (Croydon) Ltd.; wall tiling, S. A. Forbes & Sons; water supply, The Metropolitan Water Board.

Maisonettes at Roupell Park Estate (pages 490-494). Architect: Clifford E. Culpin, F.R.I.B.A., General contractors: MacNee & Partners Ltd. Sub-contractors: Reinforced concrete, F. Bradford & Co. Ltd.; bricks, Henry J. Greenham; artificial stone. Atlas Stone Co. Ltd.; roofing fell, D. Anderson & Son Ltd.; woodblock flooring, Acme Flooring & Paving Co.; patent flooring, Marley Tile Co.'s bituminous tiles; stoves, grates, B. Finch & Co. Ltd.; electric wiring, London Electricity Board; sanitary fittings, General Light Castings Ltd.; door furniture, Parker, Winder & Achurch Ltd.; casements, John Thompson (Beacon Windows) Ltd.; metalwork, George Wright (London) Ltd.; tiling, external terrazzo, Diespeker & Co. Ltd.

Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.I.

### ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

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PROFESSION or TRADE

ADDRESS

A.J. 20.4.50



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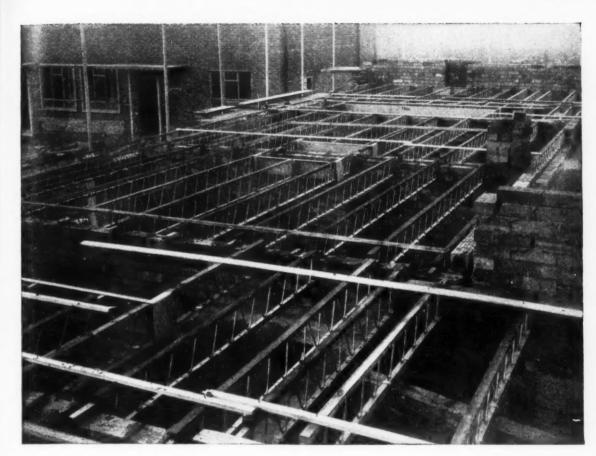
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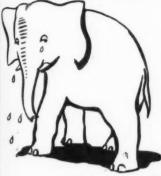
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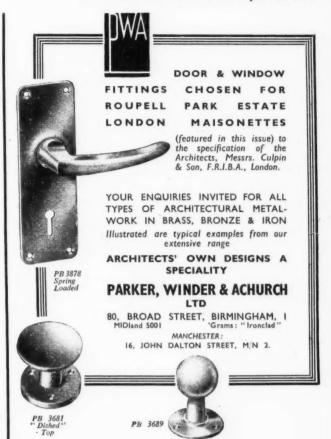
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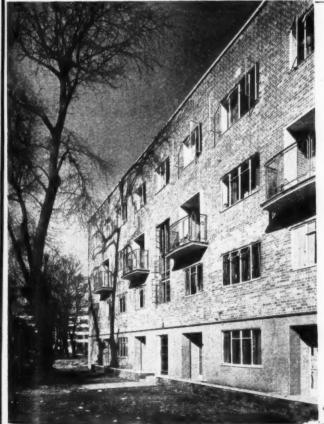
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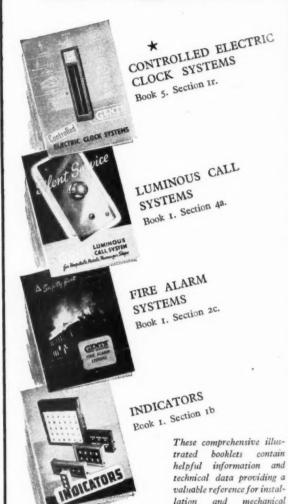
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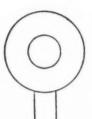
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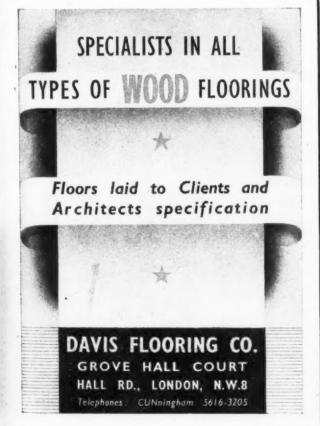
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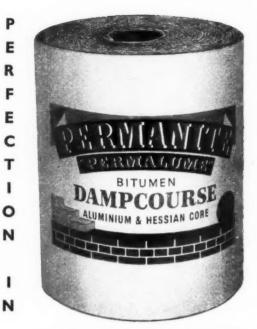
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As an example, these numbers could be coded thus: I= Enquiry; 2=Site surveyed; 3=Site plans prepared; 4=Sketch plans sent to client for approval; 5=Client's approval received; 6=Plans sent to Local Authorities for approval; 7=Approval received; 8=Specification and Bills of Quantity written up; 9=Drawing, Specification and Bills of Quantity sent to Contractors for Tender; 10=Tender accepted; 11=Building Licence obtained; 12=Work commenced.

And so on . . . If you wish, narrower sub-files could be opened up for each contractor, where the project is sufficiently large to warrant this. A slotted-in record card (on the front of each file) provides room for detailed data, thus eliminating cross-reference.

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

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

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The Incorporated Association of Architects and Surveyors maintains a register of qualified architects and surveyors (including assistants) requiring posts and invites applications from public authorities and private practitioners having staff vacancies. Address: Employment Register, Warn Park, Weytherft. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.

Applications are invited for nnestablished positions of (i) Architect, Grade III (salaries up to 2700 a year) and (ii) Architectural Assistance, in the Housing and Valuation Department. Commencing salaries in ether grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Buccessful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division, Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.I (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2259)

MINISTRY OF WORKS.

Vacancies exists for SENIOR and LEADING

Forms of application may be obtained from the Director of Housing. The County Hall, Westminater Bridge, 8.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2259)

MINISTRY OF WORKS.

Vacancies exist for SENIOR and LEADING ARCHITECTURAL ASSISTANTS in London, at Risley (Warrington) and at Capenhurst (Chesbire), for drawing office duties in connection with important Research Establishments.

Candidates should be of British nationality and have have here of the concancies for first-class of the control o

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF JUNIOR ASSISTANT
PLANNING OFFICER.

Applications are invited for the appointment of a Junior Assistant Planning Officer, Grade A.P.T., I (salary £390-£435 per annum), plus London weighting, in the Town Planning Section of the Borough Engineer's Department. Candidates must be competent draughtsmen, and have general knowledge and experience of Town Planning work.

Housing accommodation is not provided, but the Council will be prepared to consider an application for a subsistence allowance in an appropriate case from the person appointed who may be unable to obtain suitable accommodation. Application forms, obtainable from the undersigned, must be returned not later than Friday, 28th April, 1950.

H. A. EDWARDS.

H. A. EDWARDS, Town Clerk.

H. A. EDWARDS.
Town Hall, East Ham, E.6.

CITY AND COUNTY OF NEWCASTLEUPON-TYNE.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) SENIOR ASSISTANT ARCHITECTS.
Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).
(c) ASSISTANT ARCHITECTS.
Salary £520 per annum, rising to £570 per annum (A.P.T., Grade V).
(c) ASSISTANT ARCHITECTS. Salary £480 per annum, rising to £525 per annum (A.P.T., Grade IV).
The appointments will be subject to the

per annum, rising to £525 per annum (A.P.T., Grade IV). The appointments will be subject to the National Conditions of Service, as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful examination.

Applications, stating age, particulars of training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

Town Hall, Newcastle-upon-Tyne, 1.

Town Hall, Newcastle-upon-Tyne, 1. 3rd April, 1950.

COUNTY BOROUGH OF HALIFAX.
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Applications are invited for the following appointments:

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(£420-£465).

TOWN PLANNING ASSISTANT. Salary
Miscellaneous I (£315-£360).
Candidates should possess appropriate technical
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medical examination. The appointments will be
subject to the conditions of service adopted by
the Corporation and to the Local Government
Superannuation Act, 1937.
Housing accommodation will, if necessary, be
made available to candidates taking up the
Architectural position.
Applications, stating age, qualifications, present
position, salary and experience, accompanied by
copies of three recent testimontals, should be
appropriately endorsed and delivered to the
undersigned not later than Saturday, 29th April,
1950.

RICHARD DE Z. HALL, Town Clerk. Town Hall, Halifax.

CARDIGANSHIRE COUNTY COUNCIL Applications are invited for the following oppointments in the County Architect's Depart-

Applications are invited for the following appointments in the County Architect's Department, Aberayron:—

(a) QUANTITY SURVEYOR. Salary £760

(A.P.T., Grade VIII, maximum).

(b) ARCHITECTURAL ASSISTANT. Salary £595-£660 (A.P.T., Grade VI).

Applicants for (a) should have experience in taking off, abstracting, billing, measuring up and settling final accounts for school buildings, and should be an Associate R.I.C.S.

Applicants for (b) should have experience in the preparation of general and specialist specifications and in the preparation of Bills of Quantities, measuring up work, estimating and valuing, and the preparation of small water and sewage schemes. Preference will be given to applicants with qualifications of the R.I.C.S.

The Council is unable to provide housing accommodation.

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accommodation.

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

Applications, stating age, qualifications, experience, present appointment and salary, together with two recent testimonials, and suitably endorsed, are to be delivered to the undersigned, not later than 24th April, 1950.

ERIC CARSON,

Clerk of the Cardiganshire County Council.

Cambrian Chambers, Aberystwyth.

6th April, 1950.

BOROUGH OF ACTON.
BOROUGH ENGINEER'S DEPARTMENT.
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Applications are invited for the following appointments:—
ARCHITECTURAL ASSISTANT. A.P.T. Grade V (£529-£570 p.a.) of the National Scale plus London "weighting."
Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects, and be experienced in the designerection and maintenance of houses, flats are jubile buildings.
BUILDING INSPECTOR. A.P.T. Grade Public buildings.
BUILDING INSPECTOR A.P.T. Grade Public buildings.
Applicants must be experienced in the administration of building byelaws and the relevant Statutory provisions, and preferably hold the Building Inspector's Certificate of the Institution of Municipal Engineers, or its equivalent.
The commencing salary may be fixed within the grades, according to the qualifications are experience of the successful candidates.
Application forms and conditions of appointment may be obtained from the Borough Engineer, Town Hall, Acton, W.3, to whom the applications must be returned by 13th May, 1920. Canvassing will disqualify.

Town Hall, Acton, W.3.

80UTH-EAST METROPOLITAN REGIONAL

Town Hall, Acton, W.3.

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Place, London, W.1, not later than 8th May, 386,

BISHOP AUCKLAND URBAN DISTRICT

APPOINTMENT OF TEMPORARY
ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Temporary Architectural Assistant, in the surveyor's Department, to work under the direction of the Surveyor.

The salary for the appointment will be in accordance with Grade V (£520 to £570 per annum) of the A.P.T. Division of the National Joint Council's Scheme.

Applicants must be Associate Members of the Royal Institute of British Architects, and housing accommodation, if required, can be arranged within a reasonable time after the appointment is made. The accommodation which will be provided must be vacated on the termination of the appointment. The appointment will be subject to the Local Government Superannuation Adjustice.

Applications, stating age, qualifications, ast

Applications, stating age, qualifications, past and present appointments and experience, and giving the names of two persons to whom reference can be made, must reach the undersigned not later than Monday, the 5th May, 1950. Canvassing, either directly or indirectly, will be a disqualification.

R. W. BLYTHE, Clerk to the Council.

R. W. BLYTHE,

Clerk to the Council

13th April, 1950.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

PLANNING STAFF.

Applications are invited for positions of PLANNING OFFICER, Grade I (£864-569).

Grade II (£700-£494). Grade II (£550-£700), and TECHNICAL ASSISTANT (up to £580). The Grade I positions are superannuable. Candidates for Grade I positions should have architectural and town planning qualifications, and will be engaged on Reconstruction Areas and Detailed Planning Candidates for Grade II and III positions should have architectural or surveying qualifications will be engaged on Development Plan, Development Applications and Detailed Planning qualifications in addition, as will be engaged on Development Plan, Development Applications and Detailed Planning Particulars and application forms (work of Development Applications and Detailed Planning Particulars and application forms from the Architect (AR/P/P). The County Hall, Weiminster Bridge, S.E.I., enclosing stamped addressed foolscap envelope. Canvassing the Applications of County Council.

qualifies. (385)

LONDON COUNTY COUNCIL.

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Applications are invited for positions of ARCHITECT, Grade III (2550-2700) and On new schools and other public buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications. Application forms from the minster Bridge, S.E.I, enclosing stanged addressed foolscap envelope, Canvassing figuralifies.

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KYER, Town Clerk

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50-£700), and £580). The indidates for tectural and I be engaged ed Planning. itions should feations with ddition, and an, Develop-I Planning. for work on ed Planning.

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URBAN DISTRICT COUNCIL OF CORBY.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the undermentioned appointments on the permanent staff of the Council's Engineer and Surveyor.
(1) ENGINEERING AND SURVEYING ASSISTANT. Salary in accordance with Grades V and Va. A.P.T. Division of the National Scale of Salaries (£520 to £610), the commencing salary being at the minimum of Grade V. Applicants must have had at least 5 years' experience of Municipal Engineering, including road and building construction, and must be competent in surveying, levelling and draughtsmanship. Candidates must possess the testamur of the Institution of Municipal Engineers or other equivalent qualifications.

of Municipal Engineers or other equivalent qualifications of the Municipal Engineers of the qualification of the Male OR FEMALE). Salary in accordance with Grade I, Miscellaneous Division of the National Scale of Salaries (£315 to £360). Applicants must be neat and expeditions draughtsman, well experienced in the bracing of Architectural and Engineering drawings and tracing from ordnance maps, and must be able, also, to undertake lettering thereon of a high standard.

Housing accommodation will be made available to the selected married candidates, if required.

The provisions of the Local Government Superannation Act, 1937, will apply to both appointments.

ments.

Forms of application can be obtained from the undersigned, and requests therefor should indicate the position for which application is being made.

Completed forms must be received not later than noon on Friday, the 28th April, 1950.

G. B. BLACKALL.

Clerk of the Council.

Council Offices, Corby, Northants.

6th April, 1950.

council Offices, Corby, Avidance.

6th April, 1950.

Applications are invited for the appointment of ASSISTANT ARCHITECT. Salary within the range £840×£25 to £990 p.a., according to experience. Candidates should be Members of the R.I.B.A. or equivalent, and preferably experienced in hospital work. The post is superannuable under the National Health Service Superannuable under the National Health Service Superannuable age, present salary, and brief statement of qualifications and experience, should be addressed to the House Governor, London Hospital, E.l. 4031

CITY OF ST. ALBANS.

the House Governor, London Hospital, E.1. 4031

CITY OF ST ALBANS.

TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited from suitable persons for the position of Temporary Architectural Assistant, in the Department of the City Engineer and Surveyor, at a salary in A.P.T., Grade III (i.e., £450 per annum×£15 to £495).

The appointment is expected to last at least three years.

The appointment is expected to last at reast three years.

Consideration will be given to the provision of housing accommodation, if required.

Candidates should have had experience in architectural work, preferably with a Local Authority, and have passed the Intermediate Examination of the Royal Institute of British Architects.

The appointment will be subject to the National Scheme of Conditions of Service, to one month's notice on either side, to the Local Government Superannuation Act, 1937, and to the successful applicant passing a medical examination. Applications, stating age, qualifications and experience, together with two recent testimonials, and the names of two referees, must reach the undersigned not later than Tuesday, 25th April, 1950.

W. B. MURGATROYD,

Town Clerk.

8, St. Peter's Street, St. Albans, 6th April, 1950.

Applications are invited for the post of ASSISTANT ARCHITECT. Candidates must be fellows or Associates of the Royal Institute of British Architects, with wide knowledge and experience of ecclesiastical and domestic buildings. Satisfactory probationary period will qualify for a permanent appointment, with superannuation benefits subject to medical examination. Salary within the scale of \$295 \times 235 = 21,300. Applications in writing, stating age, detailed experience and previous appointments, together with copies of three testimonials (but not originals), should be sent not later than the 1st May, 1950, to the Establishment Officer, Church Commissioners, 1, Millbank, Westminster, S.W.1. CHURCH COMMISSIONERS.

HUNTINGDONSHIRE COUNTY COUNCIL.

TOWN AND COUNTRY PLANNING
ASSISTANT.

Applications are invited for the appointment of a SENIOR ASSISTANT on the staff of the County Planning Officer, at a salary in accordance with Grade A.P.T., VI. of the National Scale of Salaries, i.e., £595 to £560 per annum.

Applications, stating age, education, technical qualifications and experience, past and present appointments, accompanied by copies of two recent testimonials or the names and addresses of two referees, to be submitted as soon as possible to Mr. T. H. Longstaff, M.I.C.E., F.R.I.B.A., M.T.P.I., County Planning Officer. Walden House, Huntingdon, but in any case not later than Monday, 24th April, 1950.

It is probable that housing accommodation may be available.

County Buildings, Huntingdon.

6th April, 1950.

4008

CITY AND COUNTY OF THE CITY OF
EXETER.

Applications are invited for the appointment of
SENIOR ASSISTANT ARCHITECT, on the permanent staff of the City Architect's Department.
Salary A.P.T., Grades V-VI (i.e., £520 p.a., rising
to £660 p.a.).

Candidates should be Associate Members of the
Royal Institute of British Architects (or
equivalent), and preference will be given to those
experienced in Local Government work.

The appointment will be subject to one month's
notice on either side, and to the provisions of the
Local Government Superannuation Act, 1937.

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

Canvassing will disqualify, and candidates must
disclose whether, to their knowledge, they are
related to any member of the Council or to the
holder of any senior office under the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full
details of experience and the earliest possible date
when available, together with copies of recent
testimonials, should be sent to H. B. Rowe,
F.R.I.B.A., A.M.I.Struct.E., City Architect,
Municipal Offices. Exeter, not later than 3rd May,
1950.

C. J. NEWMAN, Town Clerk.

Exeter. April, 1950.

April, 1950.

BOROUGH OF SURBITON.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT, A.P.T., V.

Applications are invited for this permanent post. Salary in accordance with Grade A.P.T., V, of the National Scheme of Conditions of Service, £520 × £15 (2) × £20 – £570 per annum, plus London "weighting." Housing accommodation will be provided, if necessary, at an economic rent. Conditions of appointment and forms of application may be obtained from the undersigned.

Applications should be delivered to Mr. R. Thirlway, M.I.Mun.E., M.I.Struct.E., Borough Engineer and Surveyor, Council Offices, Surbiton, by 29th April, 1950.

Canvassing, either directly or indirectly, will disqualify.

R. H. WRIGHT.

R. H. WRIGHT. Town Clerk Council Offices, Surbiton.

Council Offices, Surbiton.

HUNTINGDONSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANT, GRADE III.
Applications are invited for the appointment of an Architectural Assistant. Salary Grade III.
A.P.T., £459 × £15 to £495 per annum.
The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

of the Local Government Superannuation Act, 1937.

Applications should be submitted to S. J. Hands, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by first post on Friday, 28th April, 1950, with two recent testimonials or the names and addresses of two referees.

JOHN KELLY,
Clerk of the County Council.
County Buildings, Huntingdon.

CITY OF MANCHESTER.

Applications are invited from persons having the requisite qualifications and experience for the following appointments on the National Joint Council Scale:—
ASSISTANT ARCHITECTS. Grade VI (£595-£660 per annum).

ASSISTANT ARCHITECTS. Grade V (£520-£570 per annum).

525 per annum). ASSISTANT ARCHITECTS. Grade I (£396-

2525 per annum).

ASSISTANT ARCHITECTS. Grade I (£395-£435 per annum).

The appointments are subject to the National Scheme of Service Conditions and the Standing Orders of the Council.

The successful candidates will be required to contribute to the Corporation's Superannuation Fund, and if under the age of 30 years to the Manchester Municipal Officers' Widows' and Orphans' Pension Fund.

Applications, stating age and qualifications and experience, together with copies of two testimonials, must be submitted to Mr. A. Mackenzie, L.R.I.B.A., Director of Housing, Town Hall, Manchester, 2, endorsed as to the position applied for, not later than 5th May, 1950.

Canvassing in any form is prohibited and relationship to any member of the Council or Senior Officer must be disclosed to me in writing.

PHILIP B. DINGLE,

Town Clerk.

April. 1950.

April. 1950.

EDINBURGH COLLEGE OF ART.

ANDREW GRANT BEQUEST SCHOLARSHIPS.
The Board of Management may award Four
Senior Open Scholarships, for advanced study
and/or research, of £500 each per annum for one
year at the Edinburgh College of Art. to persons
engaged in any branch of art (including Architecture and Town and Country Planning) who
have completed a period of not less than two
years' professional and/or industrial experience.
They are open to men and women, married or
single, of any nationality.
The College comprises Schools of Drawing and
Painting, Design and Crafts, Sculptare, Architecture, and Town and Country Planning.
Further information may be had from the
Secretary, Edinburgh College of Art. Lauriston
Place, Edinburgh, to whom application on the
prescribed form should be sent not later than
31st May, 1950.

COUNTY BOROUGH OF GREAT YARMOUTH.
EDUCATION COMMITTEE.
ARCHITECTS' DEPARTMENT.
Applications are invited for the following appointment on the permanent staff in the Department of the Schools' Architect, Mr. F. Jackson, A.R.I.B.A.:
PRINCIPAL ASSISTANT ARCHITECT. Salary Grade A.P.T.. VIII, £685×£25-£760.
Candidates should be Associates of the Royal Institute of British Architects, with a knowledge of modern school construction. The successful candidate will be required to act as deputy to the Schools' Architect.
Previous local authority experience is not essential.
The appointment will be terminable by one month's notice on either side, and subject to the provisions of the Local Government Superanuation Act 1937, and the passing of a medical examination.

month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, and the passing of a medical examination.

Canvassing will be deemed a disqualification, and any candidate must disclose any relationship to any member of or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and if appointed liable to dismissal without notice.

Applications, stating age, qualifications, experience, and giving details of past and present appointments together with the names of two persons to whom reference may be made, must be delivered to the undersigned not later than Thursday, 4th May, 1950.

D. G. FARROW,

Education Offices. Great Yarmouth.

URBAN DISTRICT OF EAST BARNET.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) ARCHITECTURAL ASSISTANT. A.P.T., Grade IV, £490-£525, plus the appropriate London weighting.

Housing accommodation will be rented to the successful applicant if deemed necessary.

(b) ARCHITECTURAL ASSISTANT. A.P.T.,

weighting.

rented to the successful applicant if deemed necessary.

(b) ARCHITECTURAL ASSISTANT. A.P.T.,

Grade III, 2450-2495, plus the appropriate London weighting.

Applicants should be qualified by examination, and preference will be given to those having previous experience with Local Authorities.

Each appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. Successful candidates will be required to pass a medical examination.

Forms of application should be obtained from the undersigned and returned by not later than Saturday, 6th May, 1950.

C. M. BARNES, O.B.E., M.I.Mun.E.,

M.R.S.I.,

Town Hall, Station Road,

Van. Bernet. Hertfordshire.

Town Hall, Station Road,
New Barnet, Hertfordshire.

\*\*ROROUGH OF ILFORD.

\*\*APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT (GRADE IV).

\*\*Applications are invited for the position of temporary Architectural Assistant on the staff of the Borough Engineer.

\*\*Salary A.P.T., Grade IV, £480×£15—£525, plus appropriate London weighting.

Candidates should possess approved qualifications and have general Architectural experience in Municipal Buildings, particularly with regard to the preparation of contracts and of working drawings.

drawings.

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

Forms of application obtainable from the Borough Engineer, Town Hall, Ilford, should be returned to the undersigned not later than the 6th May, 1950.

K. F. B. NICHOLLS.

K. F. B. NICHOLLS. Town Clerk.

Town Hall, Ilford, Essex. April, 1950.

Town Hall, Ilford, Essex.

April, 1950.

COUNTY BOROUGH OF HUDDERSFIELD.

EDUCATION COMMITTEE.

Applications are invited for the following appointments to the Staff of the Education Architect (Geo. Crossley, F.R.J.B.A.).—

(a) ONE ASSISTANT ARCHITECT. A.P.T., Grade VI (£595-£660).

(b) ONE ASSISTANT ARCHITECT. A.P.T., Grade IV (£460-£255).

(c) ONE ARCHITECTURAL ASSISTANT. A.P.T., Grade IV (£460-£256).

The posts offer an opportunity for gaining experience in the design and erection of School buildings in modern construction.

The appointments will be subject to one month's written notice on either side, expiring on the last day of any month; to the successful applicants passing a medical examination: to the provisions of the Local Government Superannuation Act, 1937, and to the Conditions of Service of the National Joint Council.

Applications, stating age, qualifications, present appointment, experience, etc., together with copies of two recent testimonials, endorsed (a) and (b) "Assistant Architect," or (c) "Architectural Assistant," should be submitted to the undersigned as early as possible, but not later than 10 a.m. Monday, the 1st May, 1950.

H. KAY, Director of Education.

Education Offices, Peel Street, Huddersfield. 4035

CITY AND COUNTY OF THE CITY OF
LINCOLN.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
a SENIOR ARCHITECTURAL ASSISTANT on
Grade VI. A.P. and T. Division of the National
Scale of Salaries (£595 to £66), on the established
staff of the City Architect's Department.
Candidates should preferably be registered
Architects and have a good knowledge and experience of Schools or Housing.
The appointment will be subject to the Local
Government Superannuation Act, 1937, and the
successful applicant will be required to bass a
medical examination.
Applications, stating age and experience,
together with the names of two persons to whom
reference may be made, should be delivered to
P. F. Burridge, F.R.I.B.A., City Architect, Stamp
End, Lincoln, not later than 24th April, 1950.
Canvassing, either directly or indirectly, will
disqualify.

J. HARPER SMITH.

J. HARPER SMITH, Town Clerk

Town Clerk's Office, Lincoln. March, 1960.

Town Clerk's Office, Lincoln.

March, 1960.

March, 1960.

IMPERIAL WAR GRAVES COMMISSION.
There are vacancies in the Quantity Surveying Branch in London for QUANTITY SURVEYORS with good training and experience as follows:—
(a) One post. Salary £750-£1,000 per annum, plus extra duty allowance of 3 per cent. of salary for 454 hour week. Applicants must be over 35 years of age and have had pre-war experience in taking off quantities without supervision for buildings of a high architectural standard. Must also be capable of taking complete charge of contracts from their commencement to completion and supervising staff.
(b) Two posts. Salary £475-£750 per annum, plus extra duty allowance of 3 per cent. of salary for 454 hour week. Applicants must have had experience in taking off on good permanent buildings. Pre-war experience an advantage.

(c) Two posts. Salary £330-£450 or £400-£525 per annum. Applicants should be capable of squaring dimensions and abstracting and billing with the minimum of supervision. In the higher scale applicants should have passed the Intermediate Examination of the R.I.C.S. (Quantities) or other similar recognised examination.

Applicants for post (a) should be Fellow or Associates of Royal Institution of Chartered Surveyors, Quantities Sub-division. Applicants for post (b) should be Associates in the game subdivision or have passed a recognised final examination, with Quantities as typical subject. In both posts a knowledge of stonework an advantage.

Starting pay will be assessed according to age, qualifications and experience. Although the above are not established posts, the duration will not be less than five years.

Applications should be addressed to Appointments Officer. Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Bucks.

CITY OF LEICESTER.

Applications are invited for the appointment of MAINTENANCE ASSISTANT in the City Surveyor's Department. The salary will be in accordance with Grade A.P.T., IV to VI (£486 to £660), according to qualifications and experience, and the appointment is subject to the provisions of the Local Government Superannuation Act, 1937. Applicants should have a good knowledge of architectural practice and be experienced in the maintenance of buildings, preparation of specifications, plans, and supervision of work. Applications, including age, qualifications and experience, together with copies of testimonials, should reach the undersigned not later than 29th April, 1950.

the undersigned

JOHN L. BECKETT, M.I.C.E.,

City Surveyor.

4002

Town Hall, Leicester.

Town Hall, Leicester.

FIFE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT,
CUPAR.

Applications are invited from parties having suitable qualifications for appointment as ARCHITECTURAL ASSISTANT Candidates must be qualified Architects holding A.R.I.B.A. and registered architects. Previous local authority experience would be an advantage. Salary £570, rising by annual increments of £25 to £710 per annum. Housing accommodation will be made available for the successful applicant. The appointment is superannuable, and the successful candidate will require to pass a medical examination. Applications, stating age, experience and qualifications, accompanied by revent testimonials, to be lodged with the undersigned by 27th April, 1950. No canvassing.

J. M. MITCHELL.

County Buildings, Cupar.

J. M. MITCHELL.
County Buildings, Cupar.
Sth April, 1950.
4001
SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD, invite applications for the appointment of BONUS SURVEYOR, required immediately for house-building contracts in Scotland.
Experience is essential in site measurements, fixing of incentive targets for all trades, preparing statistics, and applicants must be able to supervise the work of Bonus Clerks, Salary scale £490× £25-£252. Applications, stating age, qualifications and experience, together with the names of three referees, should be lodged with the Secretary, 15/21. Palmerston Place, Etinburgh, 12, within 14 days of the appearance of this advertisement.

BOROUGH OF WIDNES.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
a ARCHITECTURAL ASSISTANT, in accordace with Grade A.P.T., IV, of the National Scale
I Salaries (£480-£525).

of Salaries (£480-£525).
Candidates must have passed the R.I.B.A. Intermediate Examination or its equivalent at one of the recognised Schools of Architecture, and have worked in an Architectural office for not less than two years.
Housing accommodation will be available to a married applicant if required.
The appointment will be subject to the provisions of the I.G.O. Superannuation Act, 1937, and to the candidate passing a medical examination.

tion.

Applications, stating age, married or single, education, technical training, qualifications, present and previous positions with dates and details of experience, together with the names of two referees, should be sent to T. A. Brittain, Dip. Arch., A.R.I.B.A., Borough Architect. Brendan House, Widnes Road, Widnes, not later than Saturday, 29th April, 1950.

Canvassing, directly or indirectly, will disqualify

qualify

FRANK HOWARTH, Town Clerk Town Hall, Widnes.

Town Hall, Widnes.

COUNTY BOROUGH OF WOLVERHAMPTON.
EDUCATION COMMITTEE.
APPOINTMENT OF SUPERINTENDENT OF
EDUCATIONAL BUILDINGS.
Applications invited for appointment as Superintendent of Educational Buildings. Candidates should have had practical, technical and costing experience and possess ability to prepare sketch drawings, specifications, and all details for repairs, minor structural alterations, etc.
Duties include, inter alia, responsibility for upkeep and maintenance of educational buildings and heating boilers, and supervision of carctakers. Actual building repairs, alterations, etc., carried out through contractors. Superintendent responsible for effective supervision. Salary in Grade A.P.T., V(a), of National Scales (£550, by increments of £20 to £610), plus car allowance. Successful candidate may qualify for subsistence and travelling allowances if put to additional expense owing to inability to obtain local accommodation for his family. Application form and Conditions of Appointment obtainable from the Director of Education, North Street, Wolverhampton, on receipt of stamped addressed foolscap envelope. Completed applications should be returned not later than 14 days from the appearance of this advertisement.

J. BROCK ALLON,
Town Hall, Wolverhampton.

Town Clerk.

Town Hall, Wolverhampton. April, 1960.

April, 1960.

WARE URBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade A.P.T., V. of the National Scheme (ES20-£570 per annum).
Applicants should have sound experience of housing work, the preparation of working drawings, the supervision of work under construction, and other architectural work of a local authority, and should be Registered Architects holding A.R.I.B.A. or other equivalent qualification.
The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937.
The successful candidate will be required to pass a medical examination.
Application forms may be obtained from Mr. W. J. Davis, A.M.I.C.E., M.I.Mun.E., A.M.T.P.I., Engineer and Surveyor, The Priory, Ware, and applications, together with copies of three recent testimonials, must be received by the undersigned not later than the 29th April, 1950.
Canvassing, directly or indirectly, will disqualify.

LESLIE G. SOUTHALL,

LESLIE G. SOUTHALL, Clerk of the Council. The Priory, Ware. 5th April, 1950.

FLINTSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of SENIOR QUANTITY SURVEYORS (two vacancies), in the County Architect's Department, at a salary in accordance with Grade A.P.T., IX (£750 per annum, rising to £900 per annum).
Applicants must be Fellows or Professional Associates Quantities Sub-Division) of the Royal Institute of Chartered Surveyors, and must be thoroughly experienced in the preparation of Bills of Quantities, Specifications and Schedules of works for large contracts carried out by Local Authorities, including measurement, adjustment, and the preparation of interim and final accounts.
The appointments will be subject to: (a) The National Scheme of Conditions of Service, as modified by the County Council. (b) the provisions of the Local Government Superannuation Act, 1937, and (c) a satisfactory medical examination. Applications will be considered from tregistered disabled persons.

Applications will be considered from registered disabled persons.

Applications, on a form to be obtained from the undersigned, accompanied by a copy of a recent testimonial, and the names and addresses of two other persons to whom direct reference can be made, are to be submitted to me not later than the 1st May, 1950.

W. HUGH JONES,

Clerk of the County Council.
County Buildings. Mold. 4026

LEEDS REGIONAL HOSPITAL BOARD.
Applications are invited for the following appointments in the Headquarters Staff of the Board:—

Board:—
PRINCIPAL ASSISTANT ARCHITECT.
Candidates, who must be registered Architects
with recognised architectural qualifications, must
have had considerable experience in hospital design, possess administrative ability, and
capable of supervising the constructional work
in the Drawing Office. Salary 2800 per sunum
rising by annual increments of \$25 to a maximum

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in the Drawing Office. Satary 250 per annum, rising by annual increments of £25 to a maximum of £900 per annum.

SENIOR ASSISTANT ARCHITECT.
Candidates, who must be registered Architects with recognised architectural qualifications, must have had considerable experience in hospital design and construction. Salary in accordance with Grades A.P.T., VII-VIII, £635-£760 per annum. DESIGNER-DRAUGHTSMAN (MECHANICAL). Candidates should have passed, or be preparing for the A.M.I.H. and V.E. examination or its equivalent, and must have received a good technical training and have experience of domestic hot and cold water supplies, gas and steam services, heating and ventilating generally, and must be capable of preparing schemes, estimates, specifications and drawings, and of supervision. Hospital experience is desirable. Salary in accordance with Grade A.P.T., VI, £555-£660 per annum.

specincations and drawings, and of supervision. Hospital experience is desirable. Salary in accordance with Grade A.P.T., VI, 2595-2660 per annum.

DESIGNER-DRAUGHTSMAN (ELECTRICAL). Candidates should have passed, or be preparing for the A.M.I.E.E. examination or its equivalent, and must have received a good technical training. They should be experienced in electrical installations, be capable of preparing schemes, estimates, specifications and drawings, and of supervision. Hospital experience is desirable. Salary in accordance with Grade A.P.T., VI, £95-£660 per annum.

ESTIMATOR.

Candidates should be experienced in the preparation of estimates for all types of building projects, and final accounts. Preference will be given to candidates who possess or who are preparing for appropriate qualifications, such as A.R.I.C.S., L.I.O.B., etc. Salary in accordance with Grades A.P.T., III-IV, £450-£25 per annum. The appointments will be subject to the National Health Service (Superannuation) Regulations, 1947/49, to such Terms and Conditions of Service as may be laid down from time to time, and the successful candidates (if not already in the National Health Service) will be required to pass a medical examination. The appointments will be terminable by one calendar month's notice on either side.

Applications, stating age, qualifications, experience and present salary, together with the names of two referees, should be forwarded to the undersigned not later than Monday, 1st May, 1950. Canvassing in any form, either directly or indirectly, will disqualify.

WM. A. SHEE,

Leeds Regional Hospital Board, 29/31, Eastgate, Leeds, 2.

29/31, Eastgate, Leeds. 2.

DERBYSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned appointments on the permanent staff.
Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.
(a) SENJOR

for Local Authorities, as adopted by the County Council.

(a) SENIOR ASSISTANT ARCHITECTS. Grade VIII, £685. £25 to £750 per annum. Applicants must be fully qualified by examination, and be experienced in work connected with County buildings and in particular new Schools.

(b) ASSISTANT ARCHITECTS. Grade V. £250 £15 (2) and £20 (1) to £570 per annum. Applicants must have had a good general architectural experience, preferably on Education buildings, and have passed the Intermediate Examination of the Royal Institute of British Architects, or its equivalent, at one of the recognised Schools of Architectura, and it is desirable that they should be registered architectunder the Architects' Registration Council.

(c) ARCHITECTURAL ASSISTANTS. Grade II, £420. £215 to £465 per annum.

Applicants to have had a good architectural experience and to be first-class draughtsmen, and it is desirable that they should have attended a full time course of architecture and have passed the R.I.B.A. Intermediate Examination, or its equivalent, at one of the recognised Schools of Architecture.

The abnopintments will be terminable by one

the R.I.B.A. Intermenance equivalent, at one of the recognised Schools of Architecture.

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

Canvassing members of the Council, directly or indirectly, will be a disqualification for annointment.

appointment.

The County Council is not in a position to assist successful applicants with housing

assist successful applicants with housing accommodation.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 28th April, 1950.

1980.
Envelopes and applications must be endorsed stating clearly the vacancy for which the application is made.
F. HAMER CROSSLEY, Dipl. Arch.(L'pool.), A.R.I.B.A...
County Architect.

St. Mary's Gate, Derby. 13th April, 1950.

lxviii

PEMBROKESHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the underentioned appointments on the Permanent

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Staff:—
ASSISTANT ARCHITECTS.
One Grade VII, A.P. and T. Division. Salary
£535 p.a., rising by annual increments of £25 to

One Grade VII, A.P. and T. Division. Salary £35 p.a., rising by annual increments of £25 to £70 p.a., One Grade VI, A.P. and T. Division. Salary £50 p.a., rising by annual increments to £660 p.a. One Grade VI, A.P. and T. Division. Salary £50 p.a., rising by annual increments to £660 p.a. One Grade V. A.P. and T. Division. Salary £50 p.a., rising by annual increments to £570 p.a. Applicants should be Members of the R.I.B.A. by examination and/or holding equivalent sademic qualifications with experience of contemporary architectural and or structural design. ONE ASSISTANT I AND AND BUILDINGS SURVEYOR. Grade III, A.P. and T. Division. Salary £450 p.a., rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £495 m.a. rising by annual increments of £15 p.a. to £15

WALTER BARRETT, County Architect. County Architect's. Department, County Offices. Haverfordwest.

HUYTON-WITH-ROBY URBAN DISTRICT

APPOINTMENT OF SENIOR AND GENERAL

ARCHITECTURAL ASSISTANTS.

Appointments:— invited for the following

appointments:—
Sensity of the following appointments:—
SENIOR ARCHITECTURAL ASSISTANT.
Salary in accordance with Grade A.P.T., V.
£530-£570 per annum. Candidates must comply with the scheme of conditions of service and be registered architects, and should have experience in a Municipal engineer's office, particularly in respect of housing design. construction, and the control of contractors. Housing accommodation will be made available to the successful candidate if required.

control of contractors. Housing accommodation will be made available to the successful candidate will be made available to the successful candidate if required.

GENERAL ARCHITECTURAL ASSISTANT. Salary in accordance with Grade A.P.T., III, 2450-2496, according to experience. Candidates must be comply with the scheme of conditions of service for local government officers, and must have for local government officers, and must have assed the R.I.B.A. Intermediate Examination, or its equivalent at one of the recognised schools of architecture, and with less than one vear's subsequent experience in an architect's office, will be appointed on A.P.T. II. Applicants, having had a minimum period of on year in architect, and with the above qualifications, or who have completed or are serving articles, or who have worked for a minimum period of three intermediate Examination or its equivalent, will be appointed on Grade A.P.T. II equivalent, will be appointed on Grade A.P.T. II government Superannuation of the Sandard Applications, stating age, qualifications, details of experience, and the names of two persons to whom reference may be made, should be received by the undersigned not later than the 29th April, 1560.

Canvassing disqualifies.

H. E. H. LAWTON,

Clerk of the Council.

H. E. H. LAWTON, Council Offices, Derby Road, Huyton.

Jath April, 1950.

14th April, 1950.

4054

SWADLINCOTE DISTRICT URBAN DISTRICT

SWADLINCOTE DISTRICT URBAN DISTRICT

APPOINTMENT OF ARCHITECTURAL

APPOINTMENT OF ARCHITECTURAL

Applications are invited for the position of Architectural Assistant in the office of the Surveyor to the Council. The appointment is to the strongery staff, and subject to satisfactory instance. Salary in accordance with Grade III council's Scale of Salaries.

Applicants should hold the Intermediate Exfications. Experience of field survey work will be an added availatage.

Applications, stating age, training, experience, and applications, stating age, training, experience, and present appointments, and date availater than noon on Saturday, the 6th May, 1950. Institute instance, but candidates should give the mades three persons to whom reference can be made.

Canyassing, directly or indirectly, will disquality. Candidates must in their applications state if to their knowledge they are related to

made.
Canvassing, directly or indirectly, will disCanvassing, directly or indirectly, will disquality. Candidates must in their applications
state if to their knowledge they are related to
any member or the holder of any senior post
any member of any senior post
ander the Council.
A modern semi-detached house will be available to the successful candidate, if required.

J. SANDIFORD, Clerk of the Council, Clerk's Office, Swadlincote, near Burton-on-Trent.

BATTERSEA BOROUGH COUNCIL.

APPOINTMENT OF SENIOR ASSISTANT
ARCHITECT.

Applications are invited for the appointment on the Council's permanent staff of a Senior Assistant Architect, A.P.T., Grade VIII, of the National Joint Council's Scale of Salaries, at a salary of £685, rising by annual increments of £25 to £760 per annum, plus London weighting.
Candidates for the members of the R.L.B.A appointment must be members of the R.L.B.A appointment must be members of the R.L.B.A appointment must be grade will be according to the qualifications and experience of the successful candidate.
Forms of application, giving full particulars of the appointment, may be obtained from the Borough Engineer and Sarveyor. Town Hall, Battersea, S.W.II, and should be returned on completion to the undersigned in a suitably endorsed envelope by 26th April, 1950.

R. G. BERRY,

Town Clerk.

LITTLEHAMPTON URBAN DISTRICT
COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT (GRADE A.P.T., V).
Applications are invited for the above appointment on the permanent staff of the Engineer and Surveyor's Department. The Council may provide housing accommodation. Preference will be given to applicants who have passed the Final Examination of the Royal Institute of British Architects and have had previous experience of local authority housing schemes. Experience in the preparation of bins schemes. Experience in contracts and preparation of interim and final will be subject to the Sirable. The appointment will be subject to the National Scheme of Condifications and previous experience, and accommodations of Service. Applications, stating age, qualifications and previous experience, and accommodations of three recent testimonials and endorsed "Architectural Assistant," should each dendersigned not later than Saturday. 29th April, 1950.

D. WILLOUGHBY,
Council Offices. Littlehampton.

Council Offices. Littlehampton.

6th April, 1950.

6th April, 1950.

BOROUGH OF WEDNESBURY.

ASSISTANT ARCHITECT.

in the Borough Architect/Engineer's Department of an ASSISTANT ARCHITECT, at a salary of an ASSISTANT ARCHITECT, at a salary of the National Scales.

The successful candidate will be required to the National Scales are discovered to the Local Government Superannuation for the purpose of Applications, stating age, qualifications, experience and present position, accompanied by two received not later than 20th April, 1950.

ARTHUR BOOTH, F.R.I.B.A..

Borough Architect/Engineer.

12th April, 1950.

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Tenders for Contracts

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Completed tenders, which must be returned not later than 10 a.m. on Tuesday, 25rd May, 1950, should be addressed to the Town Clerk, 15, Fisher Street, Carlisle, in a sealed envelope endorsed ing."

FRANK ASHTON, M.A.

FRANK ASHTON, M.A.,
19. Fisher Street, Carlisle, Director of Education
40K

19. Fisher Street, Carlisle.

COUNTY BOROUGH OF ROCHDALE.

Tenders a invited for the ERECTION OF A
GRAMMAR SCHOOL FOR BOYS (559 places) at

GRAMMAR SCHOOL FOR BOYS (1950 places) as Balderstone.
Balderstone.
Bills of Quantities may be obtained from the Borough Surveyor, Town Hall, Rochdale, on payment of a deposit of two gaineas, which amount not subsequently withdrawn.
Tenders in sealed envelopes, endorsed "Tender Grammar School for Boys—Balderstone," must be delivered to the Town Clerk, Town Hall. Rochdale, not later than 9 am. on Tuesday, the 25rd May, 1950.

K. B. MOORE,
Town Clerk.

K. B. MOORE, Town Clerk,

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SENIOR ARCHITECTURAL ASSISTANTS required to Box 3343.

Senior and be supervised in the preparation of surveys, sketch plans and working drawings, and be able to supervise work in progress, apply in writing, stating qualifications and salary required, to Chief Architect, 31, 8t. Peloraburgh Place, London, W2.

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A SSISTANT to Technical Editor of "The

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ASSISTANT to Technical Editor of "The Architects' Journal"; qualifications required: Interested in building construction, R.I.B.A. Inter. standard, or equivalent qualifications; experience in architect's or builder's office an advantage. Replies to Otterell Butler, 9-13. Queen Anne's Gate, S.W.I. Otterell Butler, 9-13. STUDENT or JUNIOR ARCHITECT for editorial work; applicants to have a bias towards building technology and the science of building; slarry according to qualifications and experience. Box 493.

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Chartered Architects and Surveyors, 20, North Street, Romford, Essex.

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stating age, qualifications and experience. to Box 3969.

A RCHITECTURAL DRAUGHTSMAN reduced with experience of detailing Precast quired, with experience of detailing Precast ences and splications giving experience, references and splications giving experience, references and splications giving experience, references and splications of the Manager o

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A RCHITECTURAL ASSISTANTS required in South Devon offices; must have passed R.I.B.A. Intermediate Examination. Full details of experience and salary required to Box 4658.

A SSISTANT ARCHITECT required; salary according to age and experience. Write to Westmore & Sanders, 134. Cheapside, E.C.2. Telephone No.: Monarch 3337.

phone No.: Monarch 3337.

BRITISH EUROPEAN AIRWAYS have an immediate vacancy in their Head Office Architects' Section for an ARCHITECTURAL ASSISTANT; essential qualifications include ability to develop schemes from sketch drawings, prepare working drawings of all scales; a good knowledge of building construction will be required, and the work will involve some specification writing; the salary will be not less than £520 per annum. Applications, giving full details of qualifications and experience, should be addressed to the Personnel Manager, B.E.A.. Reyline House, Ruislip, Middlesex.

4023

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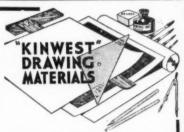
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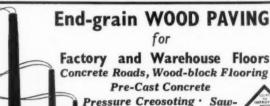
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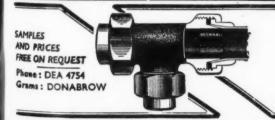
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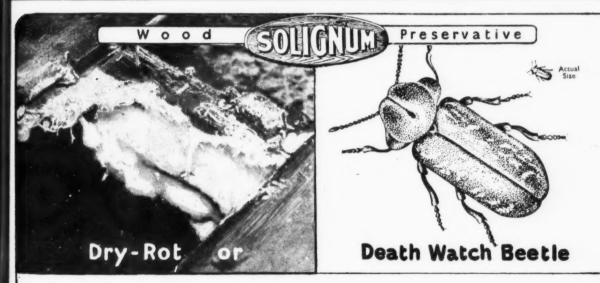
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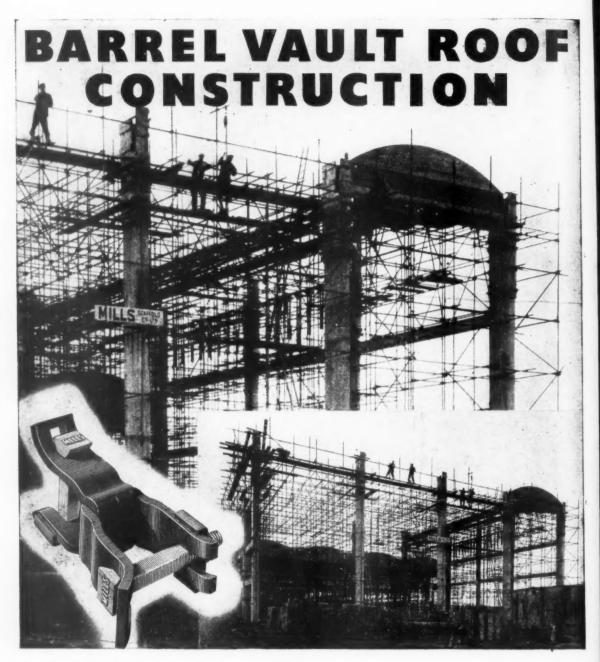


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