# ARCH





standard contents

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

### NEWS and COMMENT

Diary News

Architects' Commonplace Book

Astragal's Notes and Topics Letters

Societies and Institutions

### **SECTION** TECHNICAL

Information Sheets Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENTBUILDINGS

HOUSING STATISTICS

Architectural Appointments Vacant

No. 2809] [Vol. 108 THE ARCHITECTURAL **PRESS** 9,11 and 13, Queen Anne's Gate, Westminster, S.W.1. 'Phone: Whitehall 0611

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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.

Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676 IES Illuminating Engineering Society. 32, Victoria Street, S.W.1. Abbey 5215 IGE Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. Sloane 8606

**IHVE** Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158

Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450
Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783 IIBD ILA

Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071 Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197 I of Arb.

IOB Museum 7197 Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. Monarch 7391

IRA Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 ISE Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29 LIDC Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.

Whitehall 7264 London Master Builders' Association. 47, Bedford Square, W.C.1. Mi MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1. LMBA Museum 3891 MARS

Euston 2158-9 MOA Ministry of Agriculture and Fisheries, 55, Whitehall, S.W.1. Whitehall 3400 MOE MOH

Ministry of Education. Belgrave Square, S.W.1.

Ministry of Health. Whitehall, S.W.1.

Ministry of Labour and National Service. St. James's Square, S.W.1.

Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.

Gerrard 6933

Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711

Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.

Whitehall 8411 MOLNS MOS MOT

MOTCP MOW Ministry of Works. Lambeth Bridge House, S.E.1. Natural Asphalte Mine-Owners and Manufacturers Council. Reliance 7611 NAMMC

Abbey 1010 Abbey 5277/8 National Association of Shopfitters. 9, Victoria Street, S.W.1.

National Buildings Record. 37, Onslow Gardens, S.W.7.

Kensington 8161

National Council of Building Material Producers. 2, Caxton Street, S.W.1. Abbey 5111

National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.

Langham 4041 NAS NBR NCBMP

NFBTE **NFBTO** 

National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451
National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3
National House Builders Registration Council. 82, New Cavendish Street, W.1.

Langham 4041
Molecow 1380 NFHS NHBRC

National Physical Laboratory. Head Office, Teddington. McNational Smoke Abatement Society. Chandos House, Buckingham Gate NPL Molesey 1380 NSAS

S.W.1. Abbey 1359 NT

National Trust for Places of Historic Interest or Natural Beauty.
42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245
Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House,
S.E.1. Reliance 7611 PEP PWB

Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9936
Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.

Edinburgh 20396
Welbeck 5721 RCA RIAS

Royal Institute of British Architects. 66, Portland Place, W.1. Welbeck 5721
Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.Whitehall 5322
Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1. Whitehall 3935
Royal Society. Burlington House, Piccadilly, W.1. Regent 3335
Royal Society of Arts. 6, John Adam Street, W.C.2. Temple Bar 8274
Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Sloane 5134
Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101
Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. Regent 6347
Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Western 1571 RICS RFAC RSA

RSI RIB **SBPM** 

SCR Society of Engineers. 17, Victoria Street Westminster, S.W.I. Abbey School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chartry Western 1571 SE Abbey 7244 SFMA

Chancery 5313 Structural Insulation Association. 14, Moorgate, London, E.C.2. Central Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, Central 4444 Metropolitan 8344

SNHTPC Scottish National Housing & Town Planning Council. Hon. sec., Robert Pollock, Town Clerk, Rutherglen. Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. SPAB

Holborn 2646 Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Temple Bar 5006 TCPA City 6146 (3 lines) TDA Timber Development Association. 75, Cannon Street, E.C.4.

Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
Timber Trades Federation. 81, Cannon Street, E.C.4. City 1476
War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. TPI TTF WDC Mayfair 8866

WEDA Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4. City 4263/4 ZDA Zinc Development Association, Lincoln House, Turl Street, Oxford, Oxford 47988



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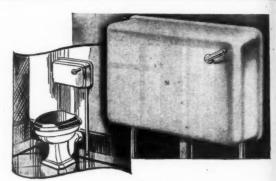
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7×7	34	10-00	20:00	-35	-55	88-15	31-48	25-19	9-00	2-97	1:77	105-8
8 x 8	45	13-23	20-50	-39	164	152:76	55-02	38-19	13:75	3-39	2:04	106-0
10 × 10	62:63	18-42	23-25	-43	-72	338-97	119-94	67-79	23-98	479	2-54	108-2
12 × 12	82:55	24-28	25-53	-47	-79	652:00	228-00	108-60	38-00	5-18	3-07	109-6
14×12	100	29-41	25-45	-55	-92	1048-40	265-20	149-80	44-21	5-97	3-00	107-0
16 x 12	110	32:35	29-10	-55	1-00	1504-60	288-30	188-10	48-05	6-82	2-99	106-8
10 × 12	122	35-88	30-50	-59	1-08	2094-50	311-40	232:70	51-90	7-64	2-95	106-0
20 × 12	135	39-71	31-746	-63	1-16	2808-00	334-60	280-80	55:78	8-41	2-90	104-0
22 x 12	150	44-12	33-84	-65	1-28	3768-00	369-70	342-50	61-46	9-24	2-89	103-8
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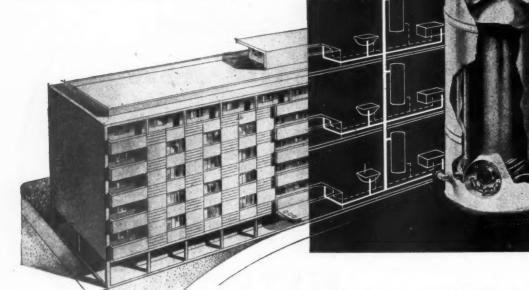
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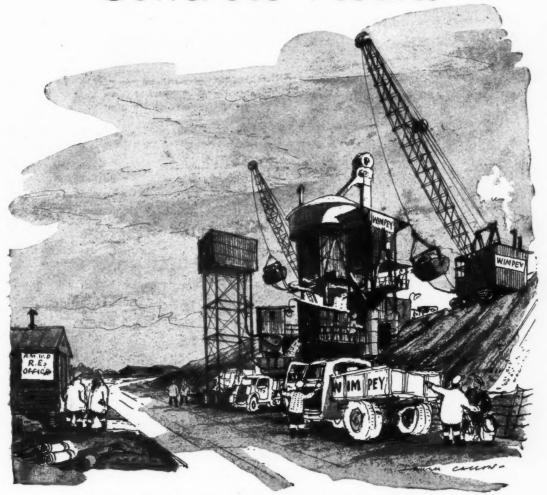
This tank is supplied direct from the common downservice pipe which feeds the cold water taps. As the illustration shows, this system does not require separate expansion pipes from each flat to the roof tank; furthermore, one common down-service pipe can be arranged to serve all the cold water taps in the block and the feed to the water-heaters can also be taken from this common service pipe.

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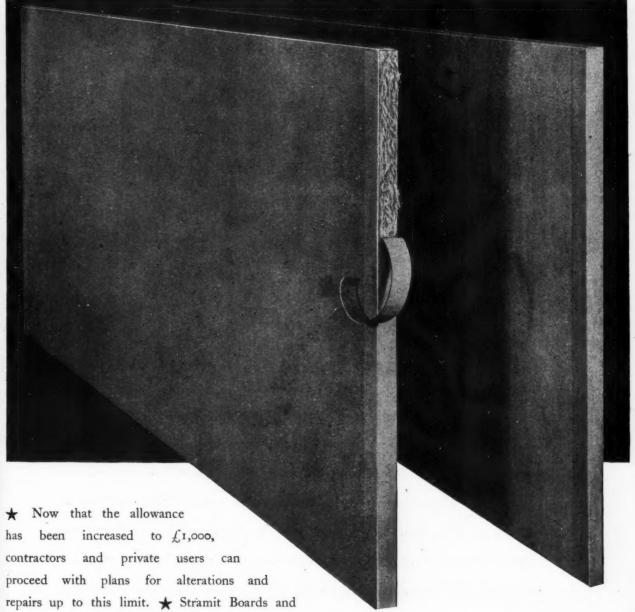
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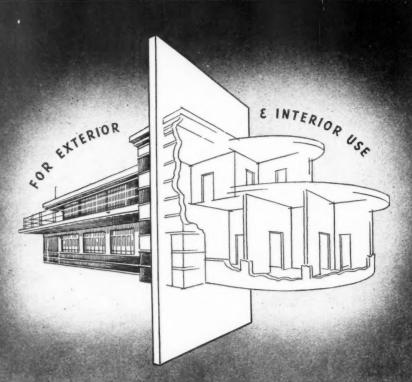
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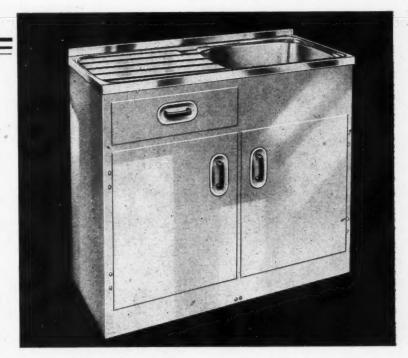
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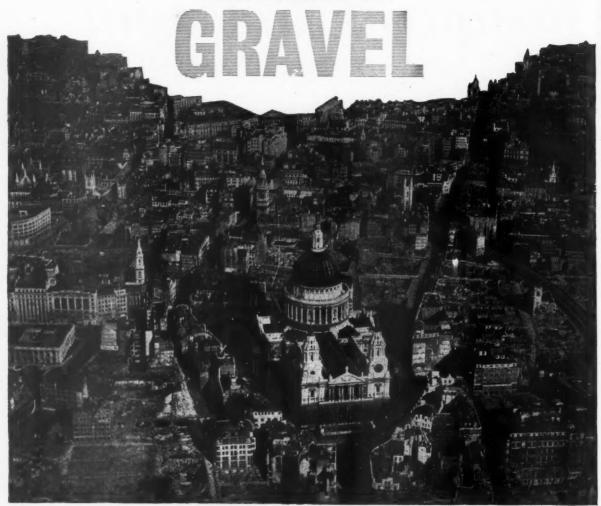
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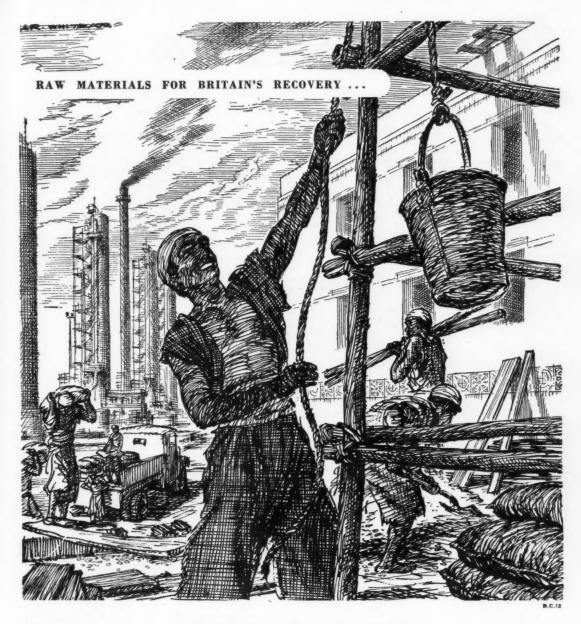
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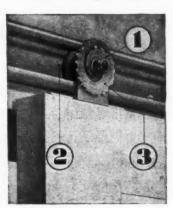
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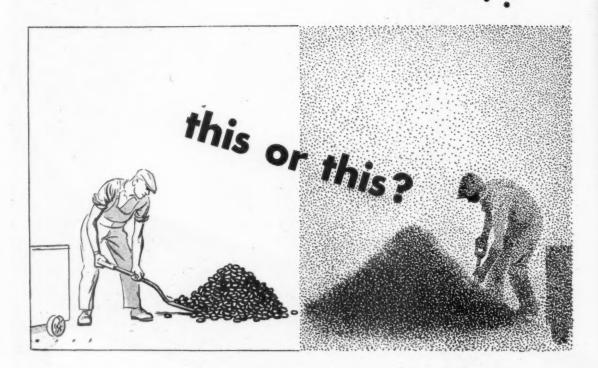


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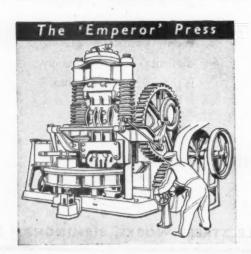


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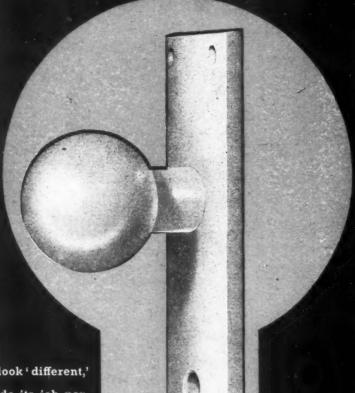






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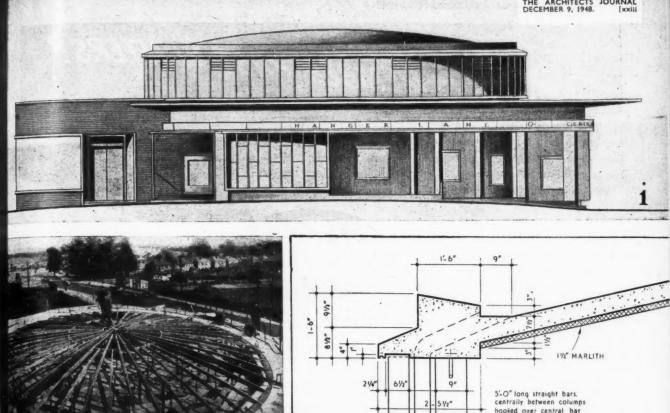
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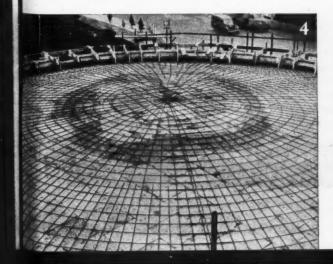
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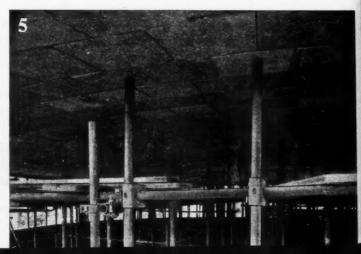
The illustrations show: 1. Elevation of design for permanent station. 2. Wooden formwork for the reinforced concrete dome. 3. Section through the top ring beam of the dome. 4. Reinforcement and permanent shuttering for the dome in 1½" Marlith. 5. A view from underneath the dome showing the Marlith slabs before plastering.

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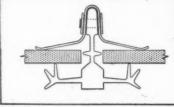
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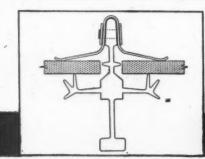
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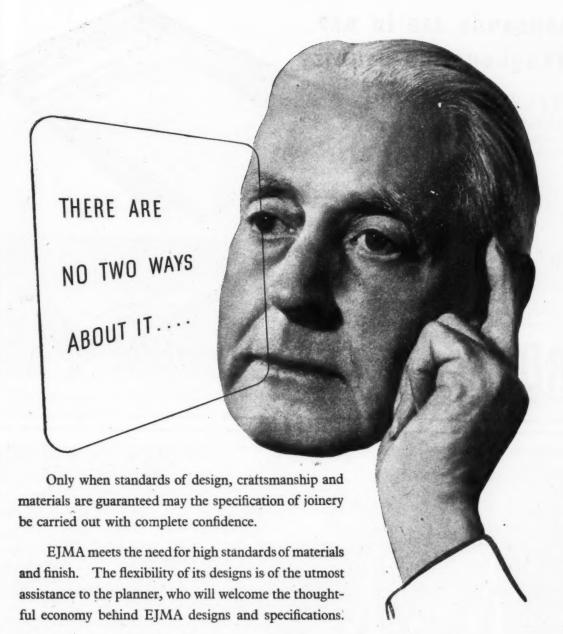
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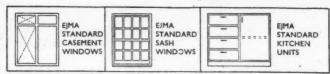
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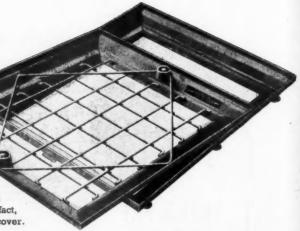


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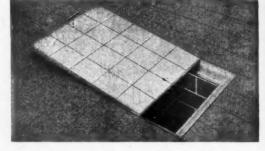
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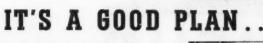


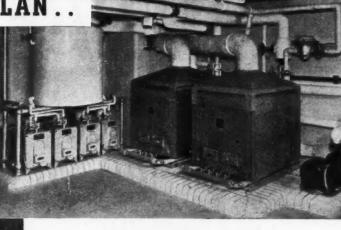
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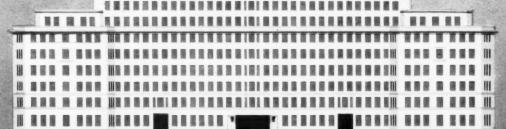
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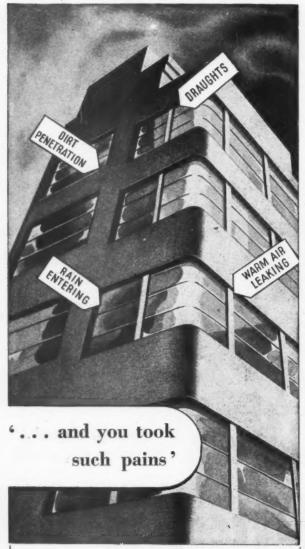
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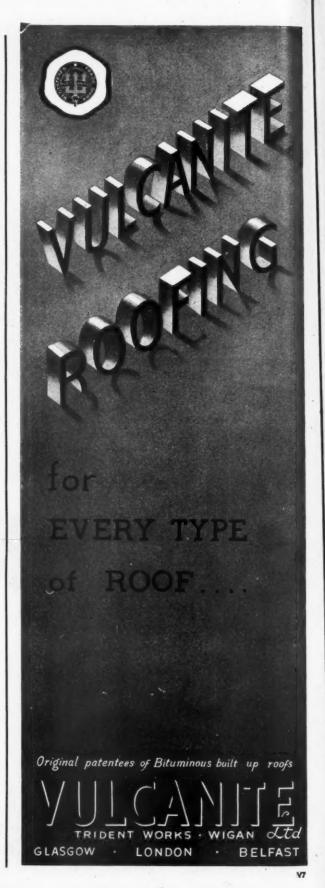
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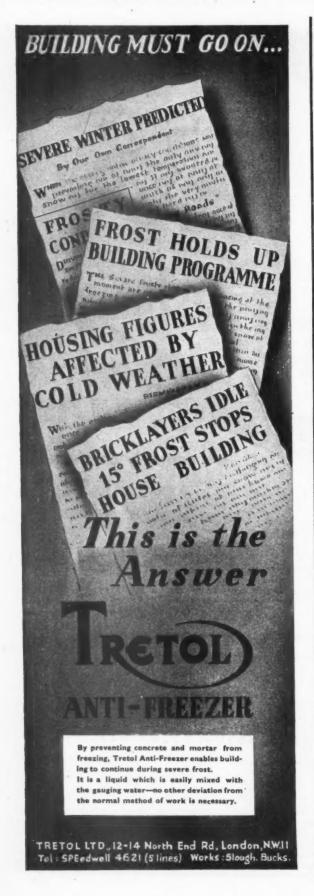
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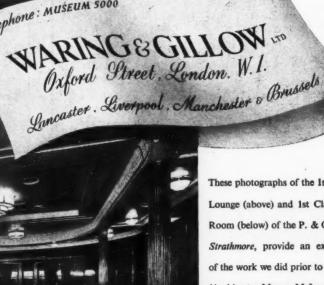
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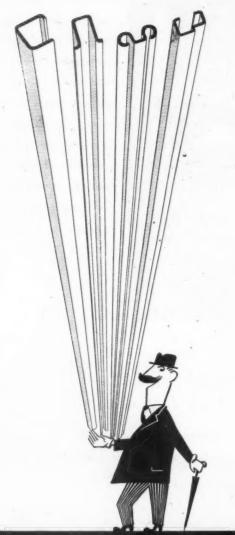


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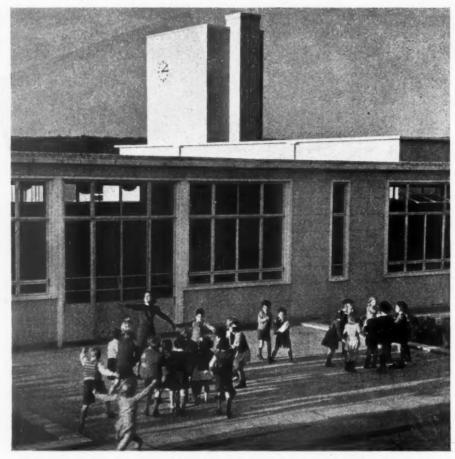
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# DIARY FOR DECEMBER JANUARY AND FEBRUARY

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

GLASGOW. H. Ferrington. Wind Presures on Buildings in Practice and Design. At the Ca'doro Restaurant, Glasgow. (Sponsor, ISE.) 6 p.m. Dec. 13

LONDON. Danish Art Exhibition. At the Victoria and Albert Museum, S.W.7. (Sponsor, Victoria and Albert Museum.)

UNTIL JAN. 2

National Federation of Housing Societies: Arts and Crafts Exhibition. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.)

UNTIL DEC. 18

Poplar Builds Exhibition. At the Central Public Library, 126, Poplar High Street, E.14. (Sponsor, Poplar Borough Council.)
UNTIL DEC. 18

150 Years of Lithography Exhibition. At the Victoria and Albert Museum, South Kensington. UNTIL DEC. 31

Ruilding Good Houses Exhibition. At the Science Museum, South Kensington. (Sponsor, BRS.)

UNTIL DEC. 31

A Series of Papers on Industrial Design. M. Hartland Thomas. Industrial Design and the Engineering Industries. Dec. 15. Milner Gray. The Industrial Designer and Consumer Goods. Jan. 19. Gordon Russell. The Industrial Designer's Responsibility. Feb. 2. Robin Darwin. The Training of the Industrial Designer. Feb. 16. John Gloag. British Industrial Design and World Markets. March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

R. Nicholas. The Validity of Building Density and other Theoretical Standards. At Caxton Hall, Westminster, S.W.1. (Sponsor, TPI.) 5.30 P.M. DEC. 9

S. Kennedy. Premises for the Operation and Maintenance of Public Service Vehicles. Henry Spurrier Memorial Lecture. At the Jarvis Hall, RIBA, 66, Portland Place, W.1. (Sponsor, Institute of Transport). 5.30 p.m. Dec. 9

P. W. Macfarlane. Regional Planning Problems of the North East Coast. At the Housing Centre, 13, Suffolk Street, S.W.I. (Sponsor, HC.) Lunch, 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d. Dec. 14

Dr. Oscar Faber. The Code of Practice for the Structural Use of Normal Reinforced Concrete in Buildings. At 11, Upper Belgrave St., S.W.1. (Sponsor, ISE and Reinforced Concrete Association.) 6 P.M. DEC. 14

Sir Malcolm Trustram Eve. The Town and Country Planning Act, and the Work of the Central Land Board. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 P.M. DEC. 14

Exhibition: 40,000 Years of Modern Art. At the Academy Hall, Oxford Street, W.1. (Sponsor, Institute of Contemporary Art.)
FROM DEC. 21

International Architectural Student Congress. Dec. 30. 11 a.m. Opening by President, RIBA, at the RIBA; 3 p.m. Opening of International Exhibition of Students' Work by the President of the AA, at County Hall, Westminster; 5.30 p.m. British Council Reception for Delegates. Dec. 31. 10 a.m. John Summerson. Historic London; 11.30 a.m. Leo de Syllas. Modern London; Afternoon: First Plenary Session. Jan. 1. 11 a.m. Talk by the Minister of Works; 12.00, Richard Sheppard. Prefabrication; 2 p.m. Open Debate on Architectural Theory. Jan. 2. Visits to Bath, Cambridge, Canterbury and Oxford. Jan. 3. Town Planning Day. 10 a.m. Talk by Dame Evelyn Sharp. 11.30 a.m., Max Lock. Talk on his Planning and Survey Group. 2 p.m. B. Lubetkin. Peterlee New Town. 4 p.m. Summing Up by Arthur Ling. Both these talks will be in the Holborn Town Hall. 5.30 p.m. Tea Party at the Building Centre. Jan. 4. 10 a.m. Professor J. D. Bernal. Technical Progress. Afternoon: Visits to BRS, the Herts Schools and British Railways Prefabricated Stations. Jan. 5-7. Sessions at the RIBA. Jan. 6. British Council Film Show. Jan. 8. Final Session at the RIBA. Except where otherwise stated, the Congress will meet at the RIBA, 66, Portland Place, W.1.

MANCHESTER. Timber as an Engineering Material. Post Advanced lectures in Building and Civil Engineering. F. D. Silvester. Selection and Grading of Timber. Dec. 15. P. O. Reece. Loads, Designs and Stresses. Jan. 6: R. T. Walters. Structural Design. Ján. 26: F. D. Silvester. Connections. Feb. 9: P. O. Reece. Plywood. Feb. 23: B. Alwyn Jay. Posts and Preservation. March 9: P. O. Reece, Comparative Efficiency of Timber in Relation to Other Materials. March 23. At the College of Technology, Manchester. (Sponsors, TDA in collaboration with the Regional Advisory Council for Technical Education.)

SIA Exhibition of Designs and Textiles. At the Cotton Board, York Street, Manchester. (Sponsor, The Cotton Board.)

UNTIL DEC. 11

## NEWS

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

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

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

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

RELICS FROM THE
HOUSE OF COMMONS have
been presented to the US Congress and each of the 48 states.
They are intended as souvenirs of the common traditions of this country and the
United States, and of comradeship in two
wars. The relics consist of pieces of stone
and lead from the fabric of the House
mounted in American mahogany cases.
They will hang in the Capitols in Washington, and each of the States. It is also
planned to present stones from St. Paul's
Cathedral to American episcopal cathedrals,
from Eton to American colleges, and from
the Temple to the American Bar Associations.



DESIGN FABRICATION ERECTION 257 FAMILIES will live in the block of flats now being built at Cromer Street for the Borough of St. Pancras, London, using 1350 tons of steel. Architects: Robert Hening, M.B.E., Anthony M. Chitty, M.A., F.R.I.B.A., A.M.P.T.I., Town Planning Consultants. General Contractors: Stewart & Partners Ltd., London.



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RIVETED OR WELDED

### From AN ARCHITECT'S Commonplace Book

THE BIRTH OF A MATERIAL. [From A History of Cast Iron in Architecture, by John Gloag and Derek Bridgwater (Allen & Unwin).] Prior to 1750 cast iron had been used very little in engineering and building, and was employed chiefly for tools, utensils, fire-backs and andirons, grave slabs, and, particularly, cannon and implements of war. For other uses it was a new material and was regarded with the same cautious expectation that until recently was aroused by reinforced concrete, and is now aroused by such substances as plastics. But the seventy-year period from 1750 to 1820 is crowded with the names of adventurous, innovating, mechanical engineers, civil engineers and architects who appreciated the possibilities of the new material. Men like the Darbys, John Wilkinson and his brother William Wilkinson, John Smeaton, John Roebuck, Matthew Boulton, James Watt, Brindley, Cranage, George Stephenson, John Rennie, Tom Paine, Andrew Meikle, Ransom, Thomas Telford, Murdoch, Richard Trevithick, John Rastrick, David Mushet, William Wilkins, John Nash, Sir Robert Taylor, George Dance, Sir John Soane, James Gibbs, the brothers Adam and Sir Robert Smirke. These men used cast iron for engineering, for building and for decoration. Apart from the purely engineering uses in machine and engine construction, the material was employed for the first time for bridges, canal banks, locks and lock gates, aqueducts, stanchions, beams, lintels, sills, windows, tram and railway lines, columns, and often took beautiful and highly decorative forms as railings.

The Minister of Town and Country Planning has expressed hope for quicker progress in REBUILDING THE CITY OF LONDON.

Mr. Silkin was speaking at a luncheon at Guildhall House given by Mr. C. Ernest Link, chairman of the Improvements and Town Planning Committee of the Corporation; he said that all concerned wanted the City of London, which was the jewel of the British Commonwealth of Nations and its financial and commercial centre, to be rebuilt as quickly as possible in a way of which future generations might feel proud. There was no reason why submission of the City Plan to the LCC should wait for three years, the date laid down for the completion of the County of London plan, although there were some features about it which had to be examined in relation to the County of London plan as a whole. But plans for separate parts of the City might be presented as they were ready.

The Ministry could not commit itself completely on the City plan because there were road plans, in it which required consideration, but subject to the possible effect of the road proposals, the plan was broadly all right, and they were now in a position to go ahead with certain communicary nurchases.

The Chairman of the LCC Housing Committee has spoken further about the LCC HOUSING PROJECT at Wimbledon and Putney Heath illustrated and described in last week's JOURNAL. Mr. C. W. Gibson, who was speaking at a Council meeting, said that although the scheme had been criticized in a leader in The Times, the technical press had approved the scheme. He denied the charge of too much uniformity in the buildings, and emphasized that the natural features of the landscape would be utilized to the best possible advantage. The task was difficult, he said, only because of the limitations imposed by economy. The scheme had already been approved by the Town Planning Committee of the LCC. Mr. Gibson stated his belief that the scheme, when completed, would be the finest of its kind in the country.

go ahead with certain compulsory purchases in the bombed areas.

Earlier at the meeting, the Chairman of the Town Planning Committee, Mrs. I. M. Bolton, replying to a question on the future of Holland House, said that no definite proposal for development by the Government of part of the grounds had been submitted

to the Council, and it was not known, therefore, whether it would conflict with the proposals already approved by the Town Planning Committee.

The draft development plan, now under

The draft development plan, now under consideration by the Town Planning Committee, suggested some development on the Kensington High Street frontage. It would not be in the public interest for the Council to make any statement of its intentions at the present time.

The Journal has received a report on architectural conditions in PORT ELIZABETH, South Africa. The value of the buildings awaiting erection in this fast-growing industrial city is estimated at £20 million. Most of the plans are still on their drawing boards. The work is being delayed by shortage of architectural staff, dearth of building materials,

lack of skilled labour, and Government building control. Among the projects in hand are four banks, two schools, thirteen blocks of flats, five shops, a couple of big department stores, four garages, seven hotels, a pair of cinemas, four churches, three clubs, thirteen factories, a £400,000 hospital, four wool stores and warehouses, a large number of dwellings and numerous extensions and alterations to buildings in the central business quarter of the city. Several of the architects have declared that they are almost two years behindhand with their work. Arrears of building have been mounting up since the beginning of the war. The £20 million estimate is exclusive of the big national housing schemes for the city, projected or under way. Among the factories is one to cost £140,000 and two which will cost £50,000. More than £3 million worth of buildings are awaiting permits, and a new £3 million railway statior may have to be built. More than half the central part of the city badly needs reconstruction.





The International Architectural Student Congress is to be held in London between December 30 and January 8, and its programme is printed in this week's diary. The Congress is sponsored by the International Union of Students and the Architectural Students Association. The Congress will meet at the RIBA, where the plenary sessions will be held and most of the papers read. An international exhibition of students work will be no view concurrently at the County Hall, Westminster, and visits to Bath, Cambridge, Canterbury and Oxford, and to places of interest in London, have been organized for the visiting delegates. The photographs above are of two of the delegates: left, Raymond Reverdin, from the School of Architecture, Geneva University; and right, Iris Nyström, from Helsinki.

Nice Embroidered Work"

The interior of King's College Chapel at Cambridge has recently been cleaned for the first time in its history. The chapel is one of the finest examples of late perpendicular gothic in the country, and the complexity and detail of its vaulting and window tracery is equalled only by that of Henry VII's Chapel at Westminster Abbey, which Wren referred to aptly, but disparagingly, as "a nice embroidered work." The photograph above of the vaulting of King's Chapel, taken since the cleaning was completed, shows how well the description applies to perpendicular architecture at its best. The cleaning was done by Mr. W. F. Haslop, of Rattee & Kett, the Cambridge contractors.

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# The RIBA Council have set up a committee to consider the present and future of PRIVATE ARCHITECTURAL PRACTICE.

The terms of reference are: "To consider the present and future position of architects in private practice and to make recommendations." The following members were appointed to the Committee:—Chairman: Sir Percy Thomas. Four Official Architects: Mr. C. H. Aslin; Mr. J. H. Forshaw; Mr. Leonard Howitt; Mr. R. H. Matthew. Four Architects in Private Practice: Mr. L. Grahame-Thomson; Mr. Howard Robertson; Mr. Ralph Tubbs; Mr. R. H. Uren. With the intention of affording the committee wide discretion as to their investigations the terms of reference are general in

mittee wide discretion as to their investigations, the terms of reference are general in nature and the committee have been given a directive for the purpose of guidance. The directive requires a thorough investigation without undue delay, and six months is given as a time limit for the work. The committee's attention is also drawn to the findings of the Committee of Private Practioners and Official Architects set up in 1943 which were published in the RIBA Journal of September, 1945.

The committee's attention is drawn to the normal means through which a private architect obtains work and any steps that can be taken to increase the work becoming available through such channels. Special attention is drawn to the relationship between private practising and official architects and the need for co-operation with a view to securing full employment and a general improvement in the standard of architecture. Opportunities and facilities for young architects to set up in private practice are also to be considered. The committee are empowered to take evidence from a wide field, including national and local government officers and officials of nationalized industries.

#### NEWS IN BRIEF

The Dean and Chapter of Manchester Cathedral have issued an appeal for £100,000 towards the repair of the cathedral which, they say, is second only to Coventry in the extent of its war damage.

The Ministry of Works has announced that it has agreed to carry out an immediate inspection of the castle and town walls of Conway, and that the Corporation has agreed to grant the necessary facilities.

The RIBA Conference for 1949, is to be held at Nottingham in the early part of the year. The Lord Mayor of Nottingham has offered full facilities on behalf of the city.

The National Advisory Council for Technical and Commercial Education are considering the provision of a degree course for builders. This was announced recently by Councillor A, Ballard, chairman of Sheffield Technical Education Committee at a meeting of the Yorkshire Educational Association for the Building Industry.

The National Physical Laboratory's "Open Days" in 1949 will be held on the following dates:—Thursday, May 26, 1949, for representatives of industrial organizations; Friday, May 27, 1949, for members of university staffs and Government departments.

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# MULTIPLE USE ON THE SOUTH BANK

SOCIOLOGISTS and planners are looking more and more towards the principle of multiple use as the more towards the principle of multiple use as the answer to the problem: how to achieve what only planning can achieve without having to put up with the inhibiting effects of over-planning. Whether the question is one of preserving the character and beauty of areas scheduled as National Parks without finding that the very act of preservation has destroyed the area's vitality, or whether the question is an urban one such as that of bringing order and efficiency into an obsolescent city centre without losing the liveliness of character on which the best English townscape depends, the same principle of multiple use applies. In the one case the planner's task becomes one of reconciling public access and development programmes with the continued agricultural productivity of the land; in the other case it becomes one of preventing such necessary measures as use-zoning, trafficplanning and density control from destroying that distinctiveness of character in different urban areas on which a satisfactory environment depends from the psychological, social and æsthetic points of view.

A recent article in *The Times* points out that a good illustration of the need for applying this principle is afforded by the South Bank of the Thames, where the LCC are now launching their long-promised attempt to reanimate this semi-derelict area. Their plans include laying out the land between Westminster and Waterloo bridges as a cultural and administrative centre, and these plans will succeed or fail according to whether the London public's traditional unwillingness to cross the river in search of pleasure and refreshment can be overcome. Southwark was once an active recreation centre, but for several centuries, though the South Bank is as near to the Strand as Piccadilly, the river has been an impassable psychological barrier. The holding of the 1951 Exhibition on the South Bank should, however, do much to break this barrier down. When the exhibition is over, the LCC's new concert hall will

remain as the nucleus of the intended cultural centre, and alongside it is to be built the national theatre. But a concert hall and a theatre do not make a new West End. They need life and lights in the surrounding streets and cafes and restaurants to serve them. The rest of the waterfront has been leased to the Ministry of Works for building Government offices, and the danger is that the concert hall and the theatre will find themselves struggling against the gloom of the empty pavements, unlighted windows and closed front-doors of office buildings after hours. Applying the principle of multiple use, the Ministry of Works might well consider using the ground floors of the new Government offices for shops and cafes, and perhaps the first floors—with the magnificent views across the river—for restaurants. They would serve the needs of the thousands of civil servants working in these buildings and

of the residents in the new housing estates nearby; they would bring the public across the river and on to a reanimated waterfront, and keep the South Bank alive after the civil servants have gone home.

The LCC's plans also include a great hotel close to Waterloo Station. This, too, will fail if visitors to London find themselves emerging from it into streets deserted after office hours. Imagination on the part of the Ministry of Works can prove that a new Whitehall is not incompatible with a new West End and ensure that London's biggest opportunity in the way of central redevelopment is not thrown away.



The Architects' Journal
9, 22 and 23, Queen Anne's Gate, Westminster S.W. 2
Phone: Whitehall of 22

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A QUESTION TO MR. GIBSON

I am puzzled by the remarks made by Mr. Gibson, Chairman of the LCC's Housing Committee, at last week's Council meeting, when the Putney-Wimbledon housing project was discussed. He referred to a critical leading article that had appeared in The Times (which, incidentally, did not condemn the project, as Mr. Gibson suggested, but only expressed misgivings as to the architectural standard likely to be reached), and then he went on, according to the press report, to say that the technical press had given approval.

Now in this context the technical press can only mean the architectural papers, but the architectural papers dealing with the project had not yet been published when Mr. Gibson spoke. I would like to ask him just what he had in mind. If he was making an optimistic forecast he was sadly wrong. My own comments pub-

lished last week, which were then in the press, expressed the same misgivings as *The Times*, and those of my colleagues were outspokenly critical.

Mr. Gibson also made the old plea that it is all a question of money. But he must surely know that good design is not the same thing as expensive design. And how does he account for the far higher standard set by several of the London Boroughs, who, presumably, have no more money to spend?

FURTHER SKIRMISHING

A further addition has now been made to the cases in which the LCC seems to be using odd methods to fulfil its housing responsibilities. About 40 acres of the Eyre Estate, between Finchley Road and Avenue Road, is to be taken for high density flats; and that is about all the information so far available.

I do not think any responsible person fails to recognize the difficulty which faces the LCC in finding housing sites within the County, or the need for speed, or the fact that some of the present residents in any chosen area are likely to object to any proposal and their objections must not be overvalued. But the urgency of the job must not and need not prevent the new estates being very well laid out and designed, and the LCC should try to enlist the help of, and work with, all other willing local agencies, including landowners, in making the new residential neighbourhoods successful as a whole.

The LCC Housing Committee may say they are doing or will do these two things—particularly at public enquiries

and in broad and vague terms. As regards the first; architects and town planners cannot be blamed if they tend to judge the LCC by the flats already completed, and these seem to call for very special assurances about future intention. As regards the second, the Eyre Estate proposal will provide a good test case. The Eyre Estate has a long and creditable record in estate management and has prepared a redevelopment scheme of its own. It should therefore be possible for the old and the new type of residential estate developers to produce in co-operation a scheme for redevelopment in stages which would in time place on this excellent site a mixed income neighbourhood which would be a model of its kind.

TELEVISING ARCHITECTURE

At the re-opening, recently, of the Royal Institute Galleries in Piccadilly the BBC television news-reel cameramen filmed the event for a future programme. The galleries, damaged by the bomb which gutted St. James's Church next door, have had their roof lights restored and have been redecorated throughout. Although on this occasion the cameramen concentrated mainly on the exhibits of the Royal Society of Portrait Painters, who were holding their first exhibition since the war in these galleries, nevertheless a fairly clear view of the exterior and interior was shown.

The BBC are to be congratulated on this start they have made in showing buildings on the screen, but should surely go further and describe buildings in their entirety. The possibilities of exploring the architectural qualities of a building and of design criticism via a television screen are waiting to be developed. A view of the object under discussion might go far to spread the appreciation of good design by those who can afford television sets, who might also, presumably, be able to afford a little patronage of the arts themselves.

PLAN 3

The latest number of *Plan*, the magazine of the Architectural Students' Association, contains a nice balance of information, theory, comment and humour. The analysis of the character of possible employers for the benefit of

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Victoria Square, showing part of the car park which at present occupies the entire square. See Astragal's comment below.

students looking for jobs is excellently done. There are also a number of illustrations of schools in various parts of the world. It is difficult to identify a national style except in the case of Denmark and France, though not all countries follow the same model. The Austrian example is by Brazil out of Corb, while the Chicago Institute of Design owes much to Mies van der Rohe and Breuer. The illustrations form a background to the International Architectural Students' Congress to be held next month in London. There is, I gather, also to be an exhibition of students' work from many foreign architectural schools.

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#### AN ENLIGHTENED SOUAREARCHY

So many of the London squares have suffered in the past from the apathy (or worse) of those who live in them that it is reassuring to hear of a case of another kind. The heroes of the tale are the residents of Victoria Square, that pleasant stuccobackwater off Buckingham Palace Road. Architecturally, Victoria Square is perhaps not quite first class. But its total effect is altogether admirable-or rather it could be. All it wants is some central feature in the form of a tiny garden or cobbled layout, in place of the existing waste of tarmac. And it is some such feature that the residents want to give it.

At present Victoria Square is used as a car park. It would be more than a pity if such use should be allowed to continue for the sake of what can only be an infinitesimal contribution to the solution of Westminster's parking problems. All men of good will must hope that the residents will get their way.

" ALICE THROUGH THE FIBRE GLASS "

"I have heard of fibre and I have heard of glass," said Alice, "but I have never heard of fibre glass; what does it mean?" "It means," said Humpty Dumpty, "whatever I choose it to mean." "That must be very confusing."

"Not at all," replied Humpty Dumpty, "it means anything but he and she."

Alice considered for a while and then said: "But what has he and she to do with fibre glass?"

"Nothing at all," said Humpty Dumpty, "at least not much and not often, but you know how old-fashioned even peach-looking glass is nowadays."

In pursuit of her education as an architect, having once penetrated the fibre glass, Alice enjoyed (perhaps that is not the happiest word) many experiences. Those who can get tickets for this year's AA Pantomime to be held at the Mary Ward Settlement Hall, Tavistock Place, will see what they were. They will be initiated into the mysteries of architectural education as practised under the sign of the Cherry Beret.

**ASTRAGAL** 

## LETTERS

W. W. Scott-Moncrieff, F.R.I.B.A.

#### One Hundred Years Ahead

SIR.—Talking of perspective, allow me to quote from the leading article of the Architects' Journal for December, 2048: Quote begins:

"Looking back over the architectural history of the past hundred years, we must begin by recording that extraordinary which existed our country impediately.

mania which seized our country immediately after what they used to call World War II and which took legislative form in the so-called "Town and Country Planning Act."

"Hordes of officials and an immense

bureaucratic organization were established at public expense whose principal function was to direct where and how people should

was to direct where and how people should live and what they should live in. At that time it must be remembered the Atom. Bomb had just been brought to perfection. "In those days they used to laugh at Victoria and Albert. In fact they were so impressed with their own importance and so intrigued by laughing at previous generations—"old fashioned" was the cry—that they completely failed to realize how foolish they were themselves.

"It is difficult now, in these enlightened times to imagine their supine belief in Science as god and benefactor and that all their hideous inventions would bring to

Science as god and benefactor and that all their hideous inventions would bring to them a millenium of no labour—it was all to be "saved"!—and all men were to re-enter Paradise by a road prepared for them by standardization, not only of robot products, but of human beings themselves. "Scientific approach" was the cliché. This was the password and open sesame to the New Era.

New Era.

"It is, of course, easy to be wise after the event, but the main object of the Act was, by crushing taxation, to build new cities and to herd people together in what they called "communities," and this, if you please, when every nation was rising against nation and the Atom Bomb was about to burst.

"No sooner did the 3rd bomb burst (the

"No sooner did the 3rd bomb burst (the first two had previously been dropped on the Japanese with a success that flattered the professors), than they saw—in a flash—their mistake. There was panic and the cry went up: 'Disperse—disperse!'

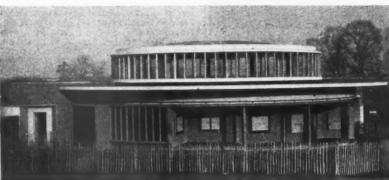
"At this distance of time we can appreciate fully the irony of that period, for it was immediately obvious that the only way to reduce the slaughter was to string out the population along both the main and subsidiary roads. These thin threads of habitations proved difficult of devastation by the Atom and enabled food and necessities to be distributed quickly both by air and to be distributed quickly both by air and road.

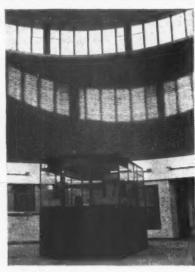
Alas! Had what they called 'ribbon "Alas! Had what they called 'ribbon development,' been allowed to develop naturally there would have been an immense saving of life, limb and suffering. As it so turned out, the people had been taxed to penury in order to bring them to a mass slaughter too terrible to

them to a mass slaughter too terrible to recall.

"We have learnt in our generation, after bitter experience indeed, that every legislator is a potential spanner in the works of Destiny; that, if we will not lay the axe to the root, it is simplest and wisest to leave people alone and, above all, that legislation can never be a cure for the evils of mankind, and as for "Science"—well, well!"

Quote ends. W. W. SCOTT-MONCRIEFF Horham, Diss, Norfolk.









Work on the extensions to the London Central Line Tube is proceeding steadily and the new section to West Ruislip was recently opened by the Minister of Transport. In addition to the building of new stations, thirteen former steamine stations are being modernised. The photographs on this page show examples of both types. Top: the new façade to Perivale Station, designed by Brian Lewis. Late grechitest to the designed by Brian Lewis, late architect to the GWR. Centre: the new station at Hanger Lane, with, left: a view of the interior showing the with, left: a view of the interior showing the booking office originally planned by Mr. Lewis, and redesigned to suit post war conditions by Dr. F. F. Curtis, Chief Architect for Western Region. Above: one of the new platforms at Ruislip Gardens, designed by A. S. Quartermaine, Chief Engineer of Western Region, Assistant Engineer: H. Savoge. Bottom, left: a platform at Loughton Station, by J. Murray Easton, of Stanley Hall, Easton and Robertson, which was rebuilt just before the war and is now being redecorated. The British Railways Western Region have been responsible for all design, construction, and civil engineering work at the west end of the line; at the east end it has been shared between the British Railways Eastern Region, London Transport, and the Eastern Region, London Transport, and the Essex County Council.

#### LONDON TUBE STATIONS

#### IN PARLIAMENT

Mr. John Platt-Mills (Ind.—Finsbury) asked the Minister of Town and Country Planning, during question time in the Com-mons, what progress had been made in carrying out the recommendations of the Abercrombie Plan for the decentralization of population and industry in the Greater London Area, and, in particular, in which areas there had been a reduction in the

density of the population to the recommended figure of 136 persons per acre.

Mr. Lewis Silkin replied that work on site preparation was in progress at four new towns around London. Corporations had been set up for two other such new towns and two more proposals were under consideration.

In general, schemes for the expansion of selected towns were being worked out by the local authorities concerned, and a phased building programme for all developments proposed for the accommodation of population and industry from London was also in preparation. No permanent reduction of the density of population in inner areas was possible until the economic situation permitted the large-scale building of houses in

the new towns and other reception centres.

The Minister was also asked by the same Member when it was proposed to announce the constitution and personnel of the planning board, recommended in the Abercrombie Report, to be set up to carry out the proposals contained in the Greater London Plan.

Mr. Silkin recalled that a committee, under the chairmanship of Mr. Clement Davies (Leader of the Liberals in the House), was set up in 1946 to consider the appropriate machinery for securing concerted action in the implementation of a regional plan for London as a whole. Their deliberations had been delayed by the changes made in planning administration by the Act of 1947,

and he had not yet received their report.
"Until I have their report, which I hope to receive shortly, I cannot come to any conclusion in this matter," the Minister added.

Mr. Silkin told another Member that he was considering the report of his inspector on the public inquiry into the proposal for a new town at Basildon, Essex, and he hoped to give a decision in two to three

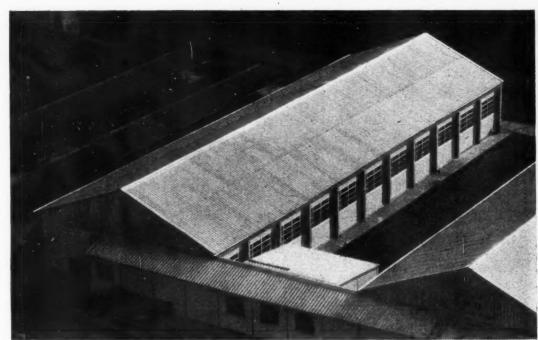
weeks' time.
The Minister of Works, Mr. C. W. Key, informed Mr. F. J. Erroll (Con.-Altrincham and Sale) that eleven steel framed buildings were at present under construction in Lon-don for use as Government offices. The don for use as Government offices. The total area of office space which would be provided by these buildings was about

1,340,000 square feet.
Sir Waldron Smithers (Con.—Orpington) demanded: "How many tons of steel are being wasted on homes for bureaucrats?"
Mr. Key: "No steel is being wasted because it is absolutely essential to provide these buildings in order that we may derequisition the great amount of office space requisition the great amount of office space which we have under requisition at the

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which we have under requisition at the present time."
When Mr. William Ross (Lab.—Kilmarnock) asked why 1,000 workers employed in the manufacture of aluminium houses had been discharged at Blackburn (Dumbarton) Ltd.'s factory, the Secretary of State for Scotland, Mr. Arthur Woodburn, said it had been decided that the resources available for building houses should bence available for building houses should henceavailable for building nouses should nence-forward be concentrated on the building of permanent houses. As a result, the build-ing of temporary and permanent sub-standard size houses was coming to an end. A proportion of this firm's workers was being discharged as its orders for the aluminium houses reached completion.

The firm were, however, developing a new type of house which, if successful, might enable them to re-employ a number of their discharged workers.



Typical office block.

# OFFICES AT BRENTFORD

DESIGNED BY WALTER H. WILLIAMS

GENERAL. — The BOAC buildings now in course of construction on the Great West Road, Brentford, comprise the following:
(a) eight office buildings, each approx. 99 ft. by 33 ft. overall;
(b) a connecting main corridor linking the eight buildings, the total length of this corridor being approx. 430 ft. (width 4 ft. 9 in. overall); (c) seven cloakroom buildings, each 12 ft. by 16 ft. 6 in., situated between office buildings.

CONSTRUCTION.—The foundation is of the orthodox type. Isolated column footings are of reinforced concrete, cast in situ, the mix being 1:2:4. Tapered pockets are left in these footings for the reception of the precast columns supporting the superstructure with subsequent concreting to form a monolithic joint between the precast column and the concrete footing. The ground floor slab is 4 in. thick plain concrete laid on an 8-in. layer of hard core. This slab, concreted in 9 ft. by 12 ft. bays, has a ½ in. sand cement screed with a frothed resin board floor finish.

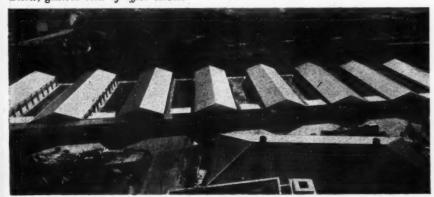
The superstructure (which uses only 12 cwt. of steel per building) comprises the following: precast pre-stressed concrete columns;

foamed cement wall panels; double sheeted aluminium partitions with glass wool fillings; insulated false ceiling; aluminium windows; aluminium roof trusses and corrugated aluminium roof sheets (chosen for durability of insulating properties) and fibre board on aluminium purlins, with aluminium gable sheeting to eaves level.

Precast pre-stressed concrete col-umns. These are 7 in. by 12 in., with rebates provided in the internal face to receive the wall panels. The main reinforcement consists of a cable of 121 in. diameter high tensile steel wires (ultimate stress 100 tons per sq. in.). A precast concrete anchorage cone is embedded in the base of each column, and the cable wires run through this anchorage cone and project approx. 2 ft. beyond for ease of fixing to the stressing jacks. To the top of each column is fixed a light alloy casting, filled with concrete and having a precast concrete anchorage cone embedded at the top. The cable is threaded through this casting and through the end anchorage cone, and by a process of pre-stressing, the column and the top aluminium casting are forced into a complete unit.

The internal partitions consist of three types, plain panels, window

Below, general view of office blocks.



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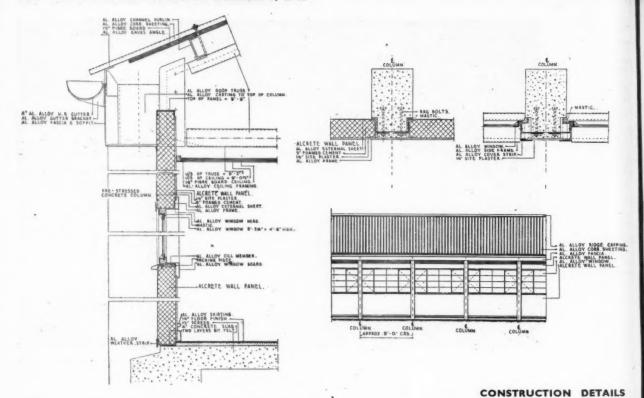
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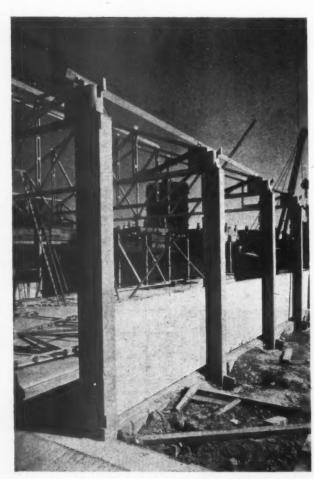
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Left, detail of prestressed concrete columns and foamed concrete wall panels. Below, interior before the erection of partitions.

panels and door panels, made up as follows: A framework consisting of extruded channel sections riveted together, with a skin of light alloy on each side of the channel section, the space between being filled with a blanket of glass silk. The window panels have three channel sections for the fixing of the glazing, and rubber glazing strips are used for the fixing of the glass. Door panels have aluminium door frames, brake-pressed to the requisite profile; timber doors are fixed in the normal manner on site.

The general contractors are Messrs. Structural and Mechanical Development Engineers, Ltd. For sub-contractors see page 544.



OFFICES AT BRENTFORD BY WALTER H. WILLIAMS

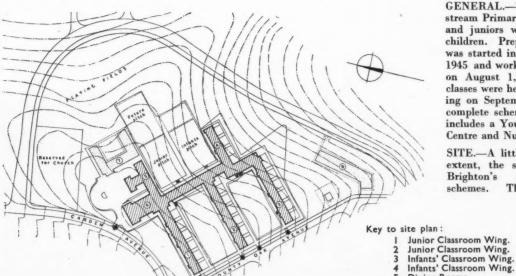


From the south.

# SCHOOL AT BRIGHTON

SITE PLAN

D. J. HOWE, BOROUGH ENGINEER & SURVEYOR P. BILLINGTON, BOROUGH SCHOOL ARCHITECT



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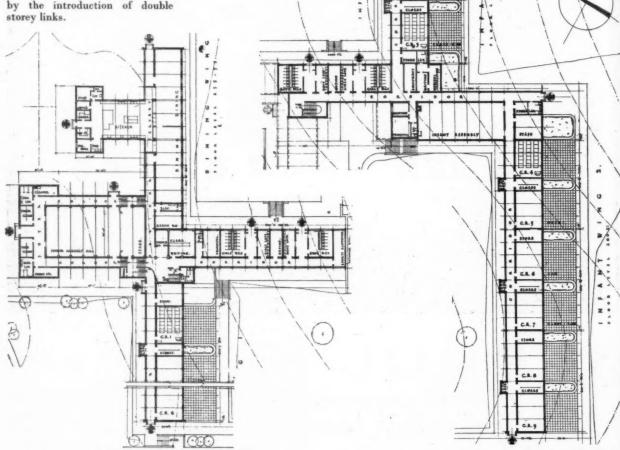
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GENERAL.-This is a threestream Primary School for infants and juniors with places for 840 children. Preparation of the plans was started in the last quarter of 1945 and work on the site began on August 1, 1947. The first classes were held in the new building on September 6, 1948. The complete scheme for the site also includes a Youth and Community Centre and Nursery School.

SITE.—A little over 13 acres in extent, the site is the first of post-war housing Brighton's schemes. The school site rises

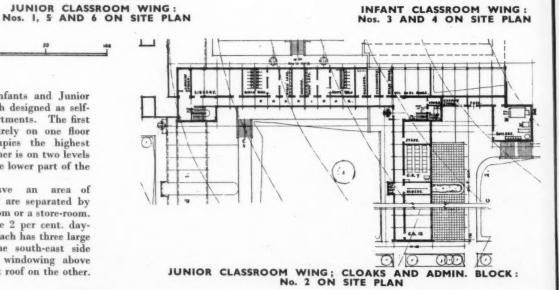
- Dining Rooms.
  Junior Assembly Hall.
  Future Community Centre.
- Future Nursery School.

steeply from the north-west to the south-east. Over the area occupied by the present buildings, the rise is in the region of 60 ft. This difficulty has been overcome by terracing the buildings and planning the accommodation on three levels. At the changes in level the main buildings, of single storey construction, are connected by the introduction of double storey links.



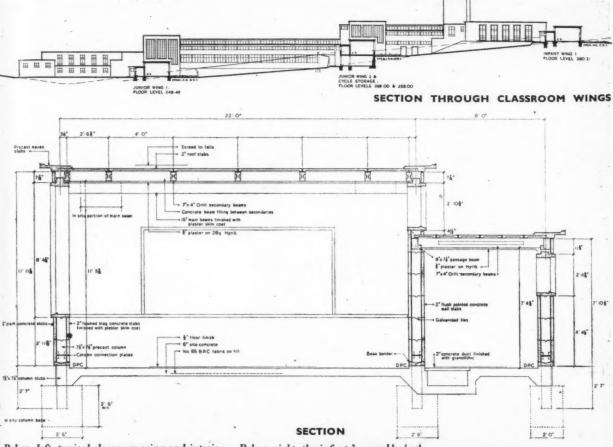
PLAN.—The Infants and Junior Schools are both designed as selfcontained departments. The first is planned entirely on one floor level and occupies the highest position, the other is on two levels and occupies the lower part of the

Classrooms have an area of 600 sq. ft. and are separated by a small cloakroom or a store-room. Classrooms have 2 per cent. daylight factor. Each has three large windows on the south-east side and clerestory windowing above the corridor flat roof on the other.

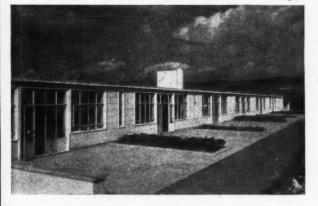


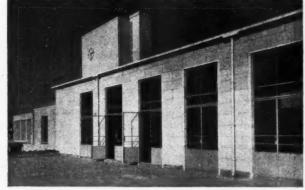
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SCHOOL AT BRIGHTON: D. J. HOWE, BOROUGH ENGINEER;



Below, left, typical classroom wing and interior. Below, right, the infants' assembly lad.

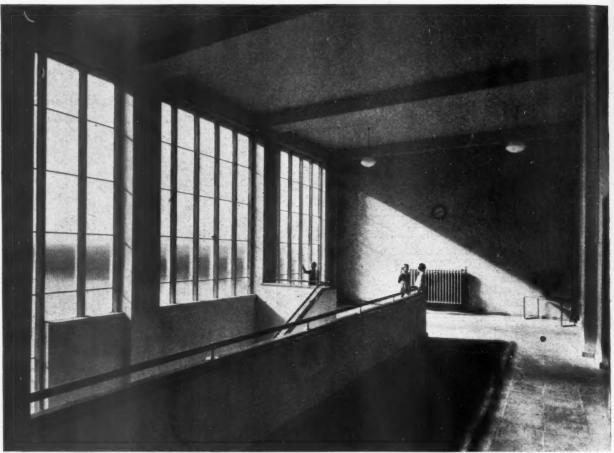








P. BILLINGTON, BOROUGH SCHOOL ARCHITECT



Staircase hall, between the infant and junior wings.

CONSTRUCTION.—This school is the first to be built on a system of construction which uses a framing of precast concrete columns, main beams, and secondary beams and precast concrete roof slabbing. Stub columns with steel connecting plates welded to the top ends of the reinforcement are first concreted into the foundation and floor slabs. The precast columns, 7½ in. square, have steel connecting plates at the foot corresponding to those on the column stub and similarly welded to the reinforcement. The joint is formed by bolting. Connections between columns and the 16 in. deep main beams are formed in situ. Secondary beams 7 in. × 4 in. supported

by the main beam carry the 2 in. thick precast roof slabbing. The cladding to the frame consists of a 2 in. outer concrete slabbing with finish of Hopton Wood stone and an inner slabbing either of dense or foamed slag concrete.

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The general contractors were Kirk & Kirk, Ltd. For sub-contractors see page 544.

Below, the school from the south.



S C H O O L A T B R I G H T O N



The office block from the north-west.

# FACTORY AT DAGENHAM

DESIGNED BY:

F. R. S. YORKE

E . R O S E N B E R G

C: S. MARDALL

GENERAL.—The labour employed on this estate is predominantly male. To achieve a balance of labour new light industry for the employment of women is being planned.

PLAN.—The clothing factory is a single storey structure with a two storey office building. There is accommodation for approximately 275 women and 20 men. The factory will expand on the south and ultimately employ 450 workers. The raw material comes in by lorry and enters the factory at the south-west corner. From the store (10) it goes in a straight line production through the designing rooms (11), cutting (12), machining (13), finishing and pressing (14) to the despatch (15). The office staff and workers enter at the north-west corner; after changing in the locker room the

Below, the canteen from the north-east.



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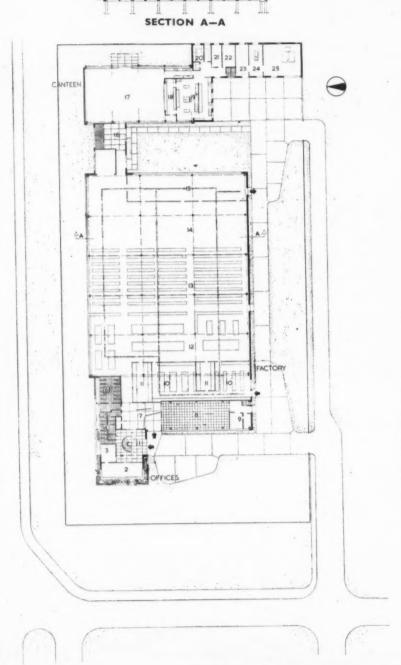
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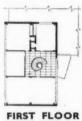
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#### R Y T DAGE N HAM



workers clock-in in the crush hall (7). The entrances and the time recorders are supervised by one time-keeper. On the ground floor of the office block there is a showroom (2), with a waiting and fitting room (3). The canteen is designed to serve lunches for 200 workers in one sitting. The factory is lit by a large window in the north wall, and by three asymmetrical south-north monitors. To prevent the sun from entering the factory the monitors have 1 ft. 6 in. deep vertical steel sheet baffles spaced every 3 ft. 0 in. There are no windows in the south wall.

CONSTRUCTION. - Foundations—pre-cast concrete Superstructure—reinforced piles concrete frame; column spacing; factory 30 ft. by 40 ft., lockers 20 ft. by 20 ft., office block 18 ft by 20 ft., canteen barrel vaults 20 ft. by 42 ft. Floor in situ R.C., roof hollow tiles. Circular stairs R.C. All exterior walls are 11 in. cavity. Internal partitions in lightweight foamed slag and steel. Monitors are in aluminium.



INTERNAL FINISHES.—The floors of the offices are of composition block and that of the entrance is stone. Those of the lockers and lavatories are cement tiles and the factory and canteen floors are of bitumen tiles. All walls and ceilings are plastered. Floor panel heating is used throughout.

#### GROUND FLOOR PLAN (Scale: 4 = 1'0")

- I. Entrance Hall.
- 2. Show Room.
- 3. Waiting and Fitting.
- 4. Staff Lavatories.
- 5. Men's Lavatories.
- 6. Women's Lavatories.
- 7. Crush Hall.
- 8. Lockers.
- 9. First aid.
- 10. Stores.
- 11. Designing.
- 12. Cutting and sorting.
- 13. Machining.
- 14. Finishing and pressing
- 15. Dispatch.
- 16. Crush Hall.
- 17. Canteen.
- 18. Servery.
- 19. Kitchen. 20. Stores.
- 21. Office.
- 22. Staff.
- 23. Mechanic.
- 24. Generator. 25. Boilers.

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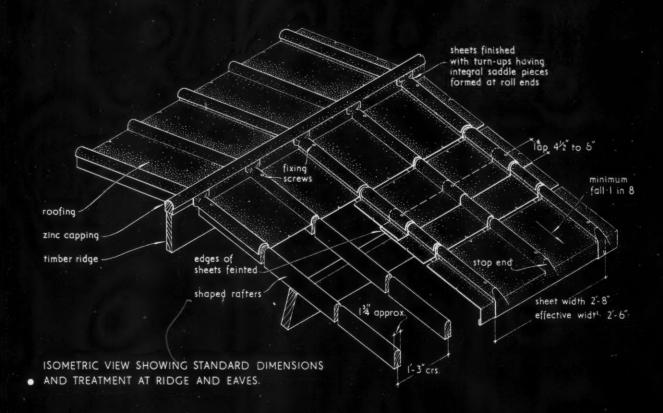
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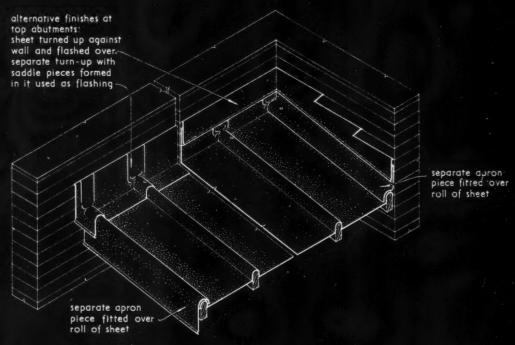
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The Architects' Journal Library of Information Sheets 125. Editor: Cotterell Butler, A.R.I.B.A.





ISOMETRIC VIEW SHOWING FINISHES AT TOP OR SIDE ABUTMENTS AND AT VERGE.

#### 10.J3 ITALIANIZED ZINC ROOFING

This Sheet describes the system known as Italianized zinc roofing. It enables the zinc sheets to be laid direct on to rafters without the use of boarding. These roofs last as long as those laid by other systems and, although insulation against sound and heat are less good, they have the advantage of economy since boarding is not required for supporting the zinc sheets. Additionally, the sheets, formed away from the site, can be laid quickly and easily. These advantages obtain even if, as is sometimes the case, boarding or other decking material is added to improve insulation. Alternatively, the sheets may be used in the same way as corrugated galvanised steel sheets and laid direct on to purlins, which would have to be suitably spaced to support them. For information on zinc roofing generally, including finishes, see Sheets 10.J1 and 10.J2.

#### Construction

Structural support: The supporting roof structure consists of rafters with half-round tops spaced at 1 ft. 3 in. centres and normally  $1\frac{3}{4}$  in. wide and of depth to suit the purlin spacing. The minimum fall should be 7° (1 in 8). Steeper pitches are permissible as zinc does not creep. Laps should be  $4\frac{1}{4}$  in. to 6 in. in the direction of the fall. The larger lap is essential with falls below  $20^{\circ}$  (1 in 3).

Sheets: No. 16 zinc gauge sheet (No. 19 I.S.W.G.), weight approximately  $1\frac{1}{2}$  lb. per square foot, is recommended to ensure adequate rigidity where no decking is used. No. 14 zinc gauge (21 I.S.W.G.) is suitable for covering boarded roofs. Standard Italianized sheets are made from the usual standard sheets 8 ft. long by 3 ft. wide, and their finished size is 8 ft. long by 2 ft. 8 in. wide. The effective width covered by each sheet is 2 ft. 6 in.

#### Fixing

The standard 2 ft. 8 in. wide sheet has three \(\frac{1}{2}\)-round rolls formed longitudinally, one on each edge and the other in the centre, spaced at 1 ft. 3 in. centres. The rolls are nominally 1\(\frac{1}{4}\) in. wide and 1\(\frac{1}{4}\) in. high.

The sheets are fixed to the rafters through the top of each roll by galvanised screws (2 in. × No. 14) fitted with specially shaped dished zinc washers and spaced at 2 ft. 6 in. centres maximum. The holes are punched from the under-side of the sheet through the tops of the rolls, and are slotted to allow for expansion. By punching from the under-side the holes are given a slight turn-up which acts as a water check. A widely specified method of fixing is to use 9 screws per sheet; i.e. 3 across each lap joint and 3 across the middle of the sheet. The top sheets are either fitted with a turn-up to finish against a timber ridge, which is then covered with a zinc capping, or they may fit against a parapet wall, when the turn-up is flashed in the usual way. The rolls are finished by a saddle piece formed partly by machine and then completed by hand; alternatively, a separate turn-up with saddle pieces formed in it can be used in much the same way as a flashing. The bottom sheet can be finished with turn-downs suitable for a fascia finish or for carrying into a gutter. The ends of the rolls can be closed with stop-ends usually formed by hand, although some manufacturers have special tools for closing the ends of the rolls by machine. At verges and against parapets separate apron pieces are fitted to the side edges of the sheets. In both cases the apron piece is shaped to fit over the top of the roll on the sheet.

#### Laving

When laying the roof, work is preferably commenced on the side of the roof furthest from the prevailing wind. The bottom sheet is laid and screwed down on one side only. The next sheet is laid over the free corrugation and so on until all the lower sheets are in position. The sheet above is then fixed allowing for a lap of  $4\frac{1}{2}$  in. to 6 in. according to the fall of the roof, the ends of the sheets at the lap being slightly feinted. The laying of the second row of sheets is then completed and subsequent rows until the roof is covered.

In the case of boarded roofs, wood rolls may be used in short lengths at the lap between sheets, or alternatively omitted altogether, provided care is taken during screwing down. On such roofs the ends of sheets between the rolls are sometimes joined by a simple welt.

#### Sound Transmission

In recent years it has been found that the sound transmission through metal roofs can be lessened by the use of sound proofing (anti-drumming) mastics such as those used on motor car bodies. They are applied by brush or by spraying, either before or after erection, and are comparatively cheap.

#### Applications

Italianized zinc roofing is suitable for covering large buildings such as warehouses, garages and railway stations. It has been widely used in the United Kingdom by the Port of London Authority and the railway companies. Several such roofs at the London docks are still in sound condition after 50 years' exposure.

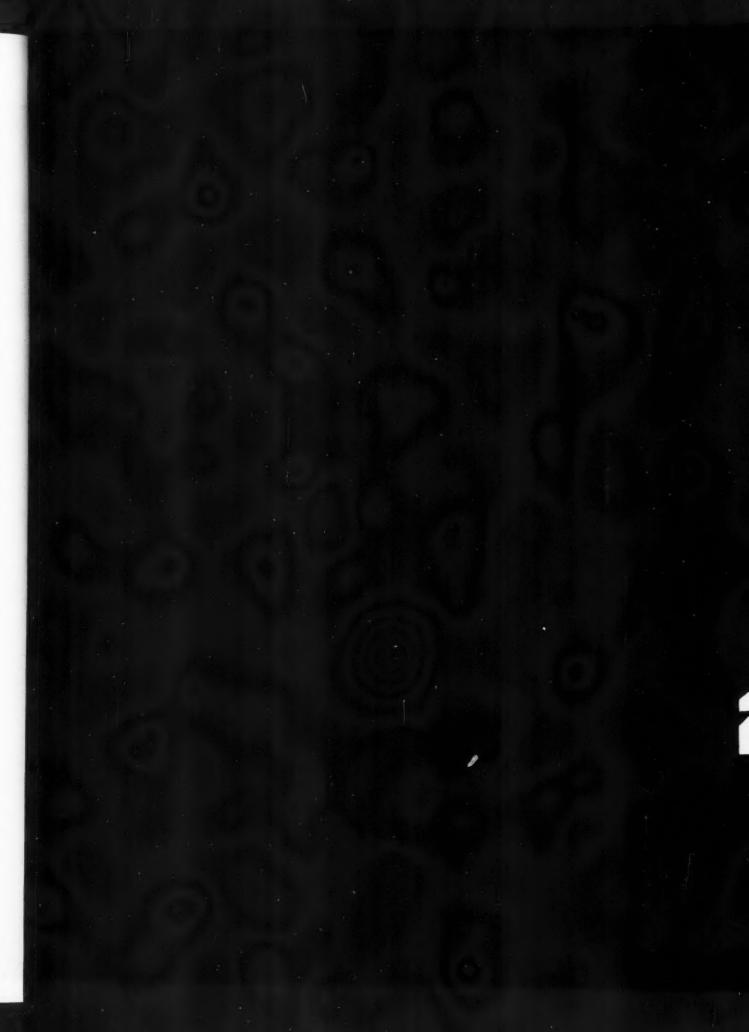
#### Further Information

The Zinc Development Association is available to answer questions and to advise on technical problems dealing with this subject generally. Publications are available on request.

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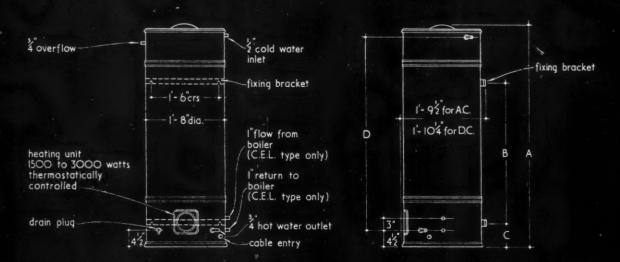
#### Zinc Development Association.

Address: Lincoln House, Turl Street, Oxford. Telephone: Oxford 47988.





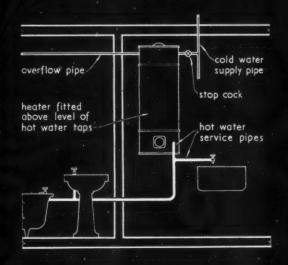
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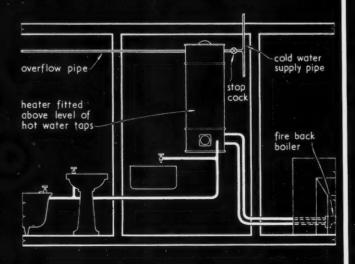
FRONT AND SIDE ELEVATION OF U.D.B.- B.T. AND C.E.L- B.T. WATER HEATERS WITH BALL TANKS.

type	capacity	A	В	С	D	
Ú.D.BB.T.	20 gallons	3'- 6½"	2'-0"	4½"	2'-112"	
U.D.BB.T. and C.E.LB.T.	30 gallons	4'- 82"	3'- O"	6"	4'-12"	
U.D.B B.T. and C.E.L B.T.	35. gallons	5'- 3'2"	3'- O"	1'- 04"	4'-82"	

CAPACITIES AND DIMENSIONS OF U.D.B.-B.T. AND C.E.L.-B.T. WATER HEATERS WITH BALL TANKS.



TYPICAL INSTALLATION OF U.D.B.- B.T. HEATER (ALL ELECTRIC).



TYPICAL INSTALLATION OF C.E.L.- B.T. HEATER (COAL AND ELECTRIC).

SADIA AUTOMATIC ELECTRIC WATER HEATERS: U.D.B. - BALL TANK AND C.E.L. - BALL TANK TYPES. Manufacturer: Aidas Electric Ltd.

# 32.D10 ·SADIA· AUTOMATIC ELECTRIC WATER HEATERS: U.D.B.-BALL TANK AND C.E.L.-BALL TANK TYPES

This Sheet, one of a series on automatic electric water heaters, describes a range of types fitted with built-in cold water tanks suitable for operation direct from the main or from the storage tank in the roof. Two models are available with the ball tank, the U.D.B.-B.T., manufactured in 20, 30 and 35 gallon capacities, and the C.E.L.-B.T. (coal-electric), specially designed for use in conjunction with a saddle or back-boiler and available in 30 and 35 gallon capacities.

#### Design

Both models consist of a tinned copper container for hot water and a tinned copper ball tank for cold water insulated from each other and connected by a cold water feed pipe. There is an internal vent or expansion pipe from the hot water container to the ball tank. This vent is air lagged to prevent loss of heat. Both the container and the ball tank are fitted inside a steel outer case with access, in front of the cylinder, to the heating unit.

In the C.E.L. type a patent drum calorifier is mounted inside the hot water container. This calorifier is self-filling and self-venting, and does not require a separate cold water feed and vent pipe for the primary circulation. It is fitted with flow and return connections for the pipes from the solid fuel boiler. Both models are suitable for wall fitting or for standing on the floor.

### Construction

The hot water container is of 18 gauge copper sheet with copper-welded seams, tinned inside and out by immersion in pure molten tin, and twice tested at 100 lb. per sq. in. pressure. The cold water storage tank of tinned copper is automatically controlled by a ½ in. J.C.S.W.R. ball valve fitted on the right side with plumber's union for ½ in. lead pipe. The overflow, fitted with ½ in. plumber's union for lead, is on the left side 1 in. lower.

The space of 2 in. between the hot water container and the outer case, and of 3 in. between the top of the container and the bottom of the ball tank is packed with re-granulated cork as heat insulator.

packed with re-granulated cork as heat insulator. The outer steel case is rust-proofed both inside and out and finished in white enamel, relieved by two blue bands. A moulded rubber ring is fitted to the base of the apparatus in order to ensure a close, dirt-free contact with the floor. The heaters are also fitted with brackets for wall mounting.

The hot water outlet is brought out through the outer casing near the bottom ( $\frac{3}{4}$  in. male B.S.P.). Coupling unions screwed  $\frac{3}{4}$  in. female B.S.P. thread for iron pipe, or compression unions for  $\frac{3}{4}$  in. copper tube can be supplied as an extra.

C.E.L. model only: The hot water outlet and the flow and return are always on the same side, usually on the right, but if required heaters with all three connections on the left side can be supplied without extra cost.

The connections for the flow and return pipes are both screwed 1 in. male B.S.P. thread. Coupling unions, screwed 1 in. female B.S.P. thread for iron pipe or compression unions for 1 in. copper tube can be supplied as an extra.

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#### Wiring and Loading

The heaters are completely wired internally in closed conduits, the electrician having only to connect a pair of leads to the terminals together with an earth wire. Screwed conduit can be used right up to the heater. The heating unit near the bottom is thermostatically controlled and has a standard loading of 2,000 watts, which, if specified when ordering, can be increased to 2,500 or 3,000 watts without extra cost. All elements are units of 500 watts each and interchangeable and withdrawable even when the heater is full. The standard heaters are suitable for A.C. supply only. For D.C. supply, heaters can be supplied with a mercury switch type thermostat and a projecting cover plate as an extra.

#### Operation

Both the U.D.B. and the C.E.L. types operate on the displacement principle, the cold water entering at the bottom of the inner cylinder displacing the hot water which is drawn off from the top through the hot water draw-off pipe.

### Application and Installation

Typical installation arrangements are shown in the illustrations.

These models do not require an external vent or expansion pipe and may be supplied with cold water from the water mains or from another storage tank at a higher level. Either model should be fitted above the level of all the hot water taps which it has to serve. Overflow pipes are required.

The heaters are particularly adapted to installation in blocks of flats, as a saving in plumbing costs results from the elimination of the expansion pipes and the use of a common down service pipe to supply cold water from a storage tank in the roof to all the cold water taps as well as the ball valves on the heaters. C.E.L. Model: This model is specially designed for use as an alternative to the traditional hot water cylinder in a solid fuel fired water heating system.

Compiled from information supplied by:

#### Aidas Electric Ltd.

Address: Sadia Works, Rowdell Road, Northolt. Middlesex.

Telephone: Waxlow 1607
Telegrams: Aidaselect, Greenford, London.



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

## TPI

# James W. R. Adams

November 11. PRESIDENTIAL ADDRESS to the Town Planning Institute, delivered by James W. R. Adams in the Assembly Room at Central Hall, Westminster.

James W. R. Adams: My father de-scribed town planning as "the Art of shaping and guidplanning as "the Art of shaping and guid-ing the physical growth of towns and rural communities in harmony with social and economic needs." He added that in its narrowest geographical scope it took the form of site planning and, in its widest scope, of regional planning. "Regional" "Regional" scope, of regional planning. "Regional" in this context, of course, is used in the widest geographical sense of the word, and such planning can include therefore "national planning." I am one of those who agree with Bernard Shaw's view that failure to define the meanings of words, the wide divergencies in the meanings confailure to define the meanings of words, the wide divergencies in the meanings conveyed to different people by any given term, are responsible for much of the trouble in the world today. The word Art is so much misused, apart from the fact that it has long ceased to represent its original meaning, that it is well-nigh impossible for a group of persons to discuss the question of whether town and country planning is an Art in its own right without getting hopelessly confused. To those who are sufficiently interested in this matter of what constitutes "Art," I commend a work by T. M. Greene, published in 1947 by the Princeton University Press, entitled The Arts and Art of Criticism. Mr. Greene defines "major" and "minor" arts and "pure" and "mixed" arts. To the commonly accepted five "major pure arts" (generally known as the fine arts), music, painting, sculpture, literature and architecture, Greene adds the dance as a sixth pure art. pure art.

#### THE ART OF TOWN PLANNING

The American landscape architects and our own Past-President, Thomas Mawson, whose pupil I am proud to have been, have claimed that landscape architecture is also a fine art in its own right. This is not the time and place to speak of these claims, but it is interesting to observe that Greene describes landscape architecture as "a highly developed minor art which has, on notable occasions, achieved relative self-sufficiency." No one would claim that town and country planning is a "pure major" art, that is that it should, like the dance, be added to the generally accepted five fine arts; but the fact that it is a "mixed" art does not affect its claim to be regarded

as an art in its own right.

An interesting point which becomes apparent when one examines this question, is that pure art as well as mixed art may involve knowledge and practice of one or more of the pure and applied sciences; mathematics in the case of music for example. This is particularly true of architecture among the pure arts, and of town and country planning among the mixed arts. Hence the important relationship to town and country planning of engineering and land surveying, of geography and economics, of political economy and sociology, of history and anthropology, and of law and administration. as sciences, in addition to its intimate relationship with architecture and landscape architecture as arts.

You may have observed incidentally that I have refrained from describing the practices I have just mentioned as "exact" sciences. It was apparent to me when examining the list that some were quite obviously exact sciences and some were equally obviously not; I found a special difficulty, however, when I came to the law. I wonder whether my legal friends would agree with me in describing the law as a "precise" rather than an "exact" science? Let me make it than an exact science? Let me make it clear at this point that I do not disagree with one of the younger contemporary writers, Alex Comfort, when he says that thought is a cultural unity, and when he deplores the mistaken idea that there is a fundamental hostility between science and art. I agree with him that we miss nowa-days the cultural unity in men of education who tried to embrace the theory of nature and the theory of esthetics and called the combination "philosophy." I don't think, however, that those who wish to recapture this unity realize that the development of the "theories of nature," which we can describe as modern scientific thought and achievement, is such that it is no longer possible for mortal minds adequately to com-prehend the whole field of science and art.

#### THE NEED FOR DESIGN

The practitioner of town and country planning, of course. may be especially gifted or trained or experienced in one or more of the arts and sciences with which he is con-cerned, but I suggest that in any event he must be above all things a designer; if you don't dislike the somewhat ambiguous term, an artist. If he is only an artist without a really sound knowledge of most of the relevant sciences, then (as a town and country planner) he will be a bad designer. If, on the other hand, he is a good scientist but is not an artist, then he will not be a bad designer; he will be quite incapable of designing anything at all. I leave you to judge which of the two would cause the planer. This matter of design is basic. There is nothing to be gained by failing to look unpleasant facts in the face; many town planners, including some especially gifted as designers of communities, have been frustrated by the lack of opportunities to practice their art. This has been particularly true of those employed in the central government department concerned with town planning, and sometimes, only to a

slightly lesser extent, in the case of those advising local authorities, whether as consultants or officers

We must also recognize that in the last resort it is the individual that matters. There may well be members of the legal profes-sion who are such gifted and imaginative artists that for that reason they are bad law-There are certainly members of the town planning profession who are such good "sea lawyers" that they are bad designers of communities. The aim of our Institute has been, and is, to produce the all-round planner, skilled in design and with a general knowledge of the many arts, sciences and crafts that are involved. Emphasis has been placed on design because that must be the focus of knowledge; but the Institute also recognizes the necessity of the designer understanding that which is to be focused, even if only to enable him to appreciate the free scope that must be provided for the specialists in those other arts, sciences and

crafts.
Mr. Leon Zach, an American landscape architect, has said that the teaching of basic ideals and the development of "design sense" is common to all the design professense is common to all the design profes-sions. In my opinion this is the fundamen-tal issue, and that is why, in the Institute's view, shared, I am happy to say, by the representatives of the Legal Members on the Council, no administrator or organizer who is not a designer in the technical sense, and indeed no one else, however competent an engineer, surveyor, geographer, economist or sociologist, unless he is also a trained designer of towns and rural communities, should be entrusted with the task of formulating the plan. In the Institute's view, the town planning profession is a design profession in its own right.

We must, of course, recognize the important new relationship to town and country planning of certain professions additional to those which have been in the past specially allied to the Institute. I think that the economists and the sociologists have, either directly or through their supporters, made their claims known to the members of the

planning profession,

#### THE PLANNER'S TASK

As I have already said, the analysis of the problems that confront us must be made by specialists of many kinds; the acquisition of the land, the building and embellishment of each community, the services they require and the communications which connect them must be carried out by lawyers, valuers, surveyors, architects, landscape architects and engineers. It is, however, the town planner who designs each community and group of communities. As Sir Raymond Unwin said, a plan, if successful, must reveal a definite design and can only be made (in the case of towns) by a town planner who is a trained designer—"one whose imagination has been cultivated in the art of creating out of a mass of details a unified design, bringing them all-into proper proportion and rela-

Do not let us delude ourselves into thinking that a town planner is or should be a "superman" who alone can resolve the conflicts to which I have referred and prepare a blue-print to solve the problems pare a blue-print to solve the problems involved; or, indeed, that men can solve these problems unaided. When the Minister of Town and Country Planning urged upon us a "humane" administration of the new powers placed at our disposal, many of us, I hope, interpreted that word "humane" in a very wide sense, as indicating the need of recognizing that man is a spiritual as well as a human being. I do not think I am wrong in thinking that Mr. Silkin wished us so to interpret his wise advice. But for this very reason, man has a high destiny even on this earthly plane, and however humble may be the part to be played by town planners in the slow progress to this destiny, it cannot be gainsaid that they can by their failures do much to hinder that progress.

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in practice may well find this book a good investment, few students are likely to be able to afford it.

# TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the stems for filing and paste them up in classified order. Headings below.

# INFORMATION CENTRE

I SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 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: Asplied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: GENERAL SUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHT-ING. 25 WATER SUPPLY, SANITATION. 25 ERWICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

### 14.22 materials : concrete CONCRETING: COLD WEATHER

Concreting and Bricklaying in Cold Weather. A. J. Newman, National Build-ing Studies Bulletin No. 3. (HMSO, 1948.

Effect of frost and cold weather. Simple and special precautions described in some detail. A very useful short description of theory and practice.

Though there is nothing very new in this bulletin, it goes into rather more detail than some recent papers on the subject, giving in particular enough information about practical points to be of direct use on a job.

Under concreting it deals first with the effect of both cold weather and frost, noting especially the great reduction in rate of strength gain at low temperatures. Practical measures to be taken as a precaution include simple covering and protection, the use of calcium chloride and the use of preheated water and/or aggregates. It is also pointed out that it is an advantage to use rapid hardening cements.
The precise effect of

using chloride is discussed and the limitations of this method are noted. Methods of using it both as "flake" and in solution are described. A useful table summarizes the methods which can be used for pre-heating. This gives maximum temperatures for heating, recommendations for methods of applying the heat and remarks on practical points. Another table gives a useful indication of the safe time for stripping formwork under various conditions, and there are some notes on methods of keep-

ing the concrete warm after it is in position.

The section dealing with brickwork is much shorter as the problems are less difficult. Calcium chloride is not recommended. The chief points, apart from careful protection of completed work, are, the use of a rather stronger mortar—e.g., 1:1:6 instead of 1:2:9, covering of bricks in the stack and avoidance of wetting the bricks before laying. For very severe conditions some pre-heating of sand and/or bricks may be used.

#### 15.42 materials : applied finishes and treatments FLOOR FINISHES

Flooring Materials. F. R. S. Yorke and C. R. Fowkes. (Faber & Faber, 1948, £2 2s. 0d.)

Description of almost all floor finishes as types but without trade names. general discussion of such problems as factory floors. Lists of BS and Codes of Practice and long tabulated list of finishes recommended for various conditions of use. Photographs and diagrams. 234 pp.

By present day standards this is a lavish production. The main part consists of a short section on each type of floor finish. Each of these sections contains very brief notes under standard headings as follows: Composition, Thickness, Sub-Floor, Laying Composition, Inickness, Sub-Floor, Laying, Noise, Warmth, Resistance to Chipping and Cracking, Resistance to Abrasion, Resistance to Oils, Water and Chemicals, Non-slip, Appearance, Cleaning and Maintenance, Uses, BS Code of Practice. Inevitably a good deal of this information will be fairly familiar to many readers but there is some familiar to many readers but there is some dealing with the newer forms of flooring which is not yet well known, and the information about polishes and other finishes and on cleaning methods is valuable as it is difficult to find elsewhere.

Following this survey of individual materials there is a list of relevant British Standards and British Standard Codes of Practice and then some rather brief notes.

Practice and then some rather brief notes about flooring in certain types of buildings such as schools and hospitals and various types of industrial buildings and finally a long tabulated list of rooms of almost all types with recommended floors listed under four headings of: Jointless, sheet, tiles and slabs, wood.

The whole book undoubtedly forms a very useful quick reference and is the most comprehensive collection of information there is on the subject. It loses a certain amount of value by omitting all reference to proprietary names, which makes it difficult to relate some parts to actual materials and it might also have been improved if it had included a preliminary section dealing with fundamental problems such as bonding, wear and tear, cleaning, slipperiness, etc., in a general way. It also seems an omission that the very tricky problem of finishes suitable for use on panel heated floors is hardly mentioned. Any discussion of the respective merits of various finishes clearly would have led the authors into difficult and delicate situations but it is a pity that they could not have given some opinions even if in rather general terms. Illustrations are mainly in the form of photographs which are almost all of interest for their architecture but very seldom add anything useful to an understanding of the text. If the inclusion of these photographs is partly responsible for the high price it is unfortunate for though a consideration architecture. tunate for though a conscientious architect

#### 16.40 materials: miscellaneous

## SAND-LIME AND CONCRETE BRICKS

Sand-lime and Concrete Bricks, G. E. Bessey, National Building Studies No. 4. (HMSO, 1948, 6d.)

Manufacture, properties and use briefly described. 11 pp.

This is a brief and simple explanation of the manufacture, properties and use of sand-lime and concrete bricks which forms a useful summary of the more essential information about two materials which have been gaining in popularity. As there are some essential differences from the properties of clay bricks this bulletin should be of interest to those who are not already familiar with the subject. (There is a longer and more technical description of sand-lime bricks in National Building Studies Special Report No. 3.) [See 16.35.]

#### 17.43 construction: general SCHOOL CONSTRUCTION

Report of the Technical Working Party on School Construction. (Ministry of Education, HMSO, 1948. 1s. net.)

Suggestions for standardisation and prefabrication in school building.

The Working Party was appointed by the Minister of Education in November, 1946, with the following terms of reference:
"To consider and make recommendations

on the technical details of the principles of school construction suggested in the 1943 Report on Standard Construction for Schools in the light of the present materials position

in the light of the present materials position and of the long term building programmes required by the Education Act, 1944."

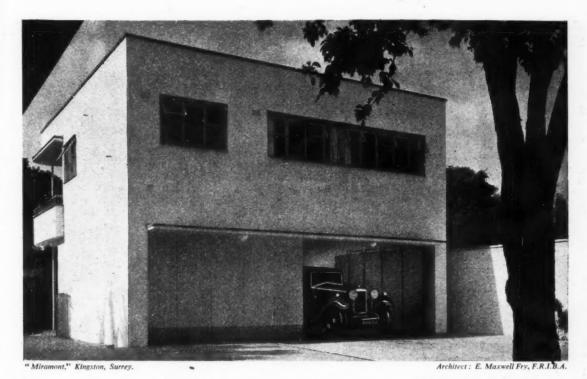
The report deals first with developments since the publication of the Wood Report. MOW Post-War Building Studies No. 2, HMSO, 1944 (see 1505), known as the Wood Report. As a consequence of the Education and 1944 agreements of the Education and 1944 agreements. Act 1944, a programme of capital expenditure on school buildings of the order of £1,000,000,000, spread over 15 years, is anticipated. This is equivalent to an average expenditure of £70,000,000 a year, which between its not likely the school of £70,000,000 a year, which, however, is not likely to be reached for some years to come. In view of the large amounts involved and the present shortage both of building materials and labour, considerable use of prefabrication may be inevitable. This may well apply even when normal conditions return.

Costs have risen steeply since the end of the war, and the working party has been conscious of the importance of financial economy. It sees the main scope for economy in (a) a review of the building regulations so as to reduce the number of sizes of room prescribed and avoid small differences in area such as those between 520 and 540 sq. ft. and 700 and 720 sq. ft. (b) standardisation to enable bulk ordering and prefabrication, and (c) economical planning by the designer.

Regarding standardisation and prefabrication, the report does not suggest the mass production of something like a "national school" or one set of controlling dimen-sions. Prefabrication for educational buildsions. Prefabrication for educational buildings should be conceived as the mass production in factories of ranges of components which can be assembled to form either part or the whole of the required structure. The basic requirement of prefabrication on a large scale is "either a national standard or a standard which is used by a sufficient number of consumers to result in substantial orders or a really to result in substantial orders or a really large order from one or two local education authorities."

The Wood Report has selected two

approaches to standardisation.



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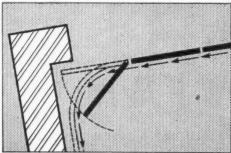
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Catalogue No. 48 contains diagrams, photographs and complete specification data.



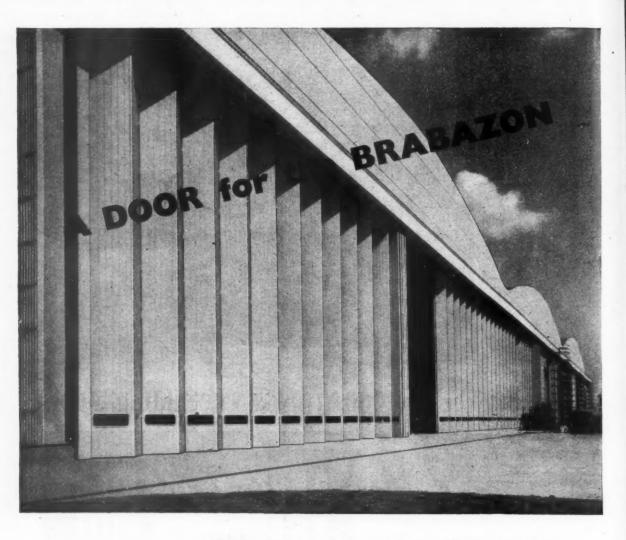


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conceives of the school as a connected structural whole, to which any dimensional factor adopted can be applied throughout." "The second conceives of the school rather as a group of separate plan units which may be left unconnected or connected by in situ work as desired." The first approach is based on a fixed dimension in two directors forming a seid. The dimension in ions forming a grid. The dimension sug-gested in the Wood Report was 8 ft. 3 in. If this dimension is applied rigidly throughout the structure, there is a danger that an excessive and therefore uneconomical amount of accommodation will be provided. therefore uneconomical The present report is in favour of a smaller dimension, i.e. 3 ft. 4 in. The calculations which justify this suggestion are explained

the second approach seems to be simpler and more economical for school building. This leads to dimensions controlling the plan and the outline of the various parts.

Bay measurements used or contemplated vary between 8 ft, and 12 ft., the choice depending to some extent on the number of spans used. Calculations suggest that, of spans used. Calculations suggest that, if the spans for teaching accommodation are limited to two, it would be economical to use a 10 ft. structural bay with internal spans of 24 ft. 9 in. and 22 ft. 9 in. nal spans of 24 ft. 9 in. and 22 ft. 9 in. For a complete range of school accommodation, including hall and gymnasium, it would be necessary to add spans of 40 ft., 30 ft. and 17 ft. 6 in., probably with a small span for corridors. Details of this suggestion are also included in Appendix I. For assembly halls the suggestion is made that they should be treated as separate plan and structural units complete in themselves. and structural units complete in themselves. They need not bear any relation to the system used for the rest of the school. The report deprecates the use of make-

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shift buildings and stresses the importance

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of architectural amenity. Monotony must be avoided. Much can be done by paying more attention to the surface textures

and colours of factory produced units. In a foreword by the Ministry of Educa-tion, the Minister accepts, in general, the working party's main recommendation and welcomes particularly the emphasis on flexible planning and references to research.

This report is certainly a very important and useful contribution to the design of school buildings and will be of considerable School buildings and with a sassistance to all architects and local authorities concerned with such work.

One word of warning is, however, necessity in the such words.

One word of warning is, however, necessary with regard to Appendix II, which covers types of simple framed structures, walls, floors and roofs. In Tables VI, VII and VIII, various comparative weights and sizes are given for steel and reinforced concrete frames respectively. It is a striking feature of Table VI that the difference in the weights of steel between steel and in the weights of steel between steel and precast concrete frames is very small, and quite contrary to common experience. The explanation may be found in Table VII, where further details are given for typical frames for single and double storey constructions for 26 ft. 8 in. span and 10 ft. structions for 26 ft. 8 in. span and 10 ft. bays. According to this table, the horizontal member of a single storey riveted ordinary frame is an R.S.J. 10 in. by 4½ in. by 25 lb., and in a welded portal frame an R.S.J. 9 in. by 4 in, by 21 lb. The total load for which these frames have been designed is 65 lb./sq. ft., i.e. 650 lb/.ft. and it would be interesting to find out by what method the dimensions mentioned what method the dimensions mentioned have been arrived at. In fact, they are quite inadequate, both from the point of view of working stresses and rigidity. The deflection of such members would be prohibitive.

The size of the corresponding horizontal member of a reinforced concrete frame is given as 14 in. by 7 in. With such dimensions, equal reinforcement top and bottom is necessary, which is not an economical use of reinforced concrete. Thus, on the one hand, the weights for structural steel frames given in Table VI are too low, those for reinforced concrete too high. This is very important since, apart from the consequences of adopting the dimensions suggested in Table VII, the data in Table VI would be completely misleading when used as a basis for application for a licence. Perhaps this serious error is due to the fact that no member of the committee appears to

no member of the committee appears to have been a structural engineer?

The weights of steel in Table VIII are, quite different from those in Table VI, but no explanation of the discrepancy is given. Another unsatisfactory feature of Table VIII is the classification of various types of structure with regard to fire resistance.

The following selection of examples from this table is of interest:

Fire resistance abricated trusses fabricated columns with Fabricated fair Fabricated trusses with rolled stanchions good Riveted ordinary RSI frames very good

Reinforced concrete (4 very good Admittedly, there is a slight difference between the three types of steel structure considered, but they all fall into the category of "Unprotected Incombustible Construction, representing the lowest standard of ncombustible construction from the fire resistance point of view," to quote from Post-War Building Studies No. 20, clause 63 (see 17.10). Such structures are classified as Type 6, whereas reinforced concrete structures of the types described belong in the worst case to Type 3, "to be considered fully protected in relation to low fire loads." To put unprotected steel frames on equal footing with reinforced concrete frames is, to say the least, misleading.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

#### OUESTIONS ANSWERS AND

OWNERSHIP OF FENCE

The tenant of the house on plot "B" has made a small gate in fence X-Y to gain access to plot "E" which he owns. The landlord of plot "B" demands that the gate should be removed (although the fence was lying flat and has been repaired by the

tenant).

The deeds of plot "E" state that between "D" and "E" there is a party fence and that the owner must maintain the fence between "E" and "F".

(1) Who owns the fence between "B" and "E"—not mentioned on the deeds

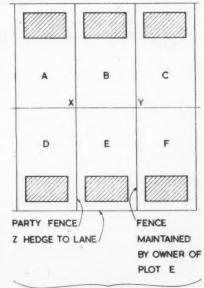
i.e., fence X-Y?

(2) If it is a party fence has the owner of "E" the right to make a temporary gate in the fence?

(3) Who is responsible for the mainten-ance of the party fence between "D" and "E"?

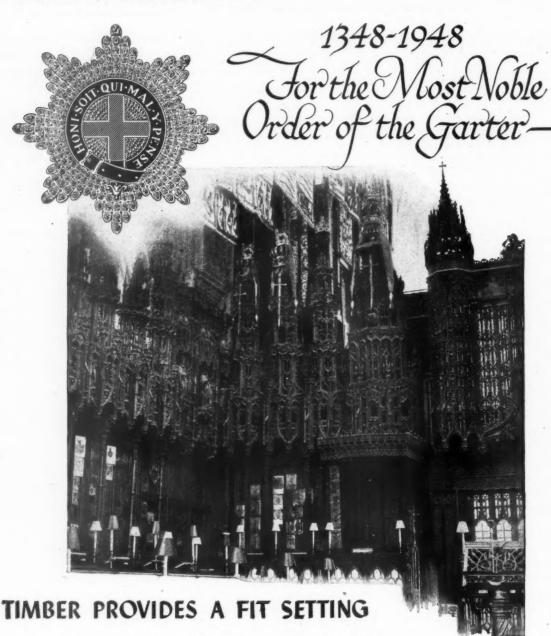
The deeds do not refer to the hedge "Z".

In the absence of anything to the A contrary it is presumptive evidence that in the case of a wooden fence the posts that in the case of a wooden fence the posts stand on the land of one owner. The nails are therefore "driven home," i.e., towards the property to which the fence belongs. It would therefore be presumed that the fence between "B" and "E" belongs to the owner of the property towards which the nails are driven. In our opinion there would be no right to make a gate in the fence whether or not it is a party fence. fence whether or not it is a party fence. If the deeds describe the fence between "D" and "E" as a "party fence," then presumably the maintenance is a joint matter between the owners of "D" and "E".



AS SHOWN ON DEEDS OF PLOT E

Site plan referred to in Questions and Answers 2968



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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

#### INDUSTRY THE

#### THE PUBLIC WORKS EXHIBITION

From the architect's point of view the Public Health and Municipal Engineering exhibition is not as essential as the Building exhibition. Street cleaning vehicles, sign-posts and rubbish carts are presumably a matter for the surveyors and engineers, but this exhibition also always has a large dis-play of contractors' plant and equipment varying from shovels (hand) to the largescale earth moving equipment and asphalt mixing plants, and it is interesting to see the full range of weapons now at the con-

tractor's disposal.

During the last year or so a good deal of attention has been paid to the possibilities of mechanizing the smaller building jobs, and there is now available a large range of power hoists and concrete, swins all speciments and concrete skins all speciments. wheelbarrows and concrete skips all specifically designed to help the housebuilder who has seldom, in the past, made very much use of mechanical devices. MOW, too, have been carrying out a whole lot of experimental work at their field research station at the Thatched Barn and have evolved, among other things, a multi-purpose machine, based on the old 6 h.p. Ransome tractor, which has various attachments to convert it into a small bulldozer, a hoist, or a concrete dump wagon. Their display at the exhibition also showed the prestressed concrete joists for housing work which are still under development and which should do a great deal to help the timber shortage. The general impression conveyed by the show was that plant is better designed, not only in appearance but from the engineering point of view. American equipment makes greater use of welding than the typical British design, but it is noticeable that far more attention is being paid to detail work and the boxing in of moving parts which were all too often lubricated only by sand and water. The correct proportioning of con-crete mixes is also made simpler by accurate weigh-batching plants, though these are generally suitable only for fairly large-

scale jobs. Petrol engines, as in other industries, are being displaced by diesels, even in the smaller sizes, while for heavy work they may almost be taken for granted. One was glad, incidentally, to see that as well as diesels, Aveling Barford are still producing the good old-fashioned steam roller with the prancing silver horse on the front, even though the sample shown had been bought by a Dutch firm.

#### COMMUNAL LAUNDRIES

In the years between the wars it was frequently said that it was of no use to provide communal laundry facilities on housing estates because the tenants hardly ever used

Nowadays in housing schemes it is almost standard practice to provide some sort of communal laundry, and they seem in practice to be freely used, perhaps because of the clothes shortage or maybe as a result of high commercial laundry prices. The equipment may consist of no more than a range of coppers and drying cabinets, but several London borough councils have installed Bendix washing machines. This firm is now trying to develop this side of the market, and has issued a useful leaflet showing a typical layout for 20 machines in a Hammersmith scheme, and containing data on the water and electricity supplies required. Apart from coining the rather regrettable name of "launderette," the scheme seems excellent, as the machines, which are almost completely automatic, can be placed close together and take less space than the average copper.

Water consumption is not heavy, the washing and rinsing of the 9 lb. load taking 11 gallons of hot and 12 gallons of cold water, while current consumption is 300 watts. (Bendix Home Appliances, Commercial Installations Dept., 90a, Park Lane, London,

#### CONSTRUCTIONAL STEEL AND **METALWORK**

After the rather mean little leaflets of the war years it is something of a relief to be sent a good solid volume which is capable of standing in a shelf on its own. Issued by Farmers of Lewisham it deals with constructional iron and steelwork of all kinds, as well as architectural metal work. Divided into sections, it covers iron staircases, steel doors, constructional steelwork of all kinds from pipe hangers to roof trusses, balustrading and grilles, railways and fencing, special gates, and a miscellaneous section devoted to canopies, ornamental lamps and mesh surrounds for tennis courts. (S. W. Farmer & Son Ltd., Stairway House, Courthill Road, Lewisham, London, S.E.13.)

#### ALUMINIUM CASTING

High Duty Alloys have recently re-equipped their gravity die casting shop at Slough and are turning out castings in large quantities. Perhaps not all designers realise how accurate die castings can be from a dimensional point of view, and the chair frame illustrated on this page may provide some idea of what can now be done. The back, seat and legs are cast separately and the for Goodearl Brothers. (High Duty Alloys Ltd., Slough, Bucks.)

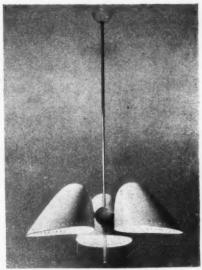
#### LIGHT FITTINGS

Visitors to the RDI show at Burlington House will have noticed one or two of the new range of Versalite fittings designed by Mr. A. B. Read for Troughton and Young. The two basic shade shapes, one of which is illustrated on this page, have been arranged in a number of different ways as wall and ceiling fittings and also as floor and desk lamps. Comment on the designs and desk lamps. Comment on the designs is needless, for Mr. Read can always be relied upon to produce the sort of thing architects would like to have for themselves, fairer than that one cannot say. Incidentally, it is something of a relief to find new designs for use with filament lamps now that scarcely a week goes by without some new fluorescent horror twice as vulgar as the one the week before. (Troughton & Young Ltd., 143, Knightsbridge, London

#### TESTING BUILDING MATERIALS

Now that it has become fairly standard practice to specify materials and fittings to BSS, it is perhaps important to have some form of routine testing carried out on the job. Reputable manufacturers may be trusted not to let themselves down, but there are a number of materials, particularly sands and aggregates, where size variations may occur from time to time, and it may be advisable to arrange for occasional independent checks.

There are, of course, several fairly well known independent testing houses, but new-comers in this field are the Ellis Research and Testing Laboratories who specialize in



One of a new range of Versalite fittings designed by A. B. Read for Troughton and

the testing of building and road materials and are equipped for tests of all kinds according to BSS and to other requirements. (Ellis Research and Testing Laboratories, Dacre House, Victoria Street, London,

#### ALUMINIUM PASTE

A recent booklet issued by British Aluminium deals with the properties of aluminium paste and the paint produced from it. Before the war, aluminium paint was becoming fairly well known as an excellent primer for nearly all purposes, and it is a little surprising to find that the booklet does not lay any great stress on this aspect of its use. As a weatherproofer, however, and as a good light reflector it has many uses, particularly for factory interiors, and for external work it is of particular value for preventing heat absorption by tanks containing petrol or other volatile substances. Brief notes are also given on the actual painting technique. (The British Aluminium Co. Ltd., Salisbury House, London Wall, London E C.) London, E.C.2.)



A chair gravity die cast in Hiduminium by High Duty Alloys. The weight, back, seat and legs, is 7lb. 10 ozs.

This regular feature, prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors, summarises basic prices for materials and gives labour rates for the London District and Grade Classifications outside

London. Detail prices of materials are given quarterly.

	BASIC PRICES AND RATES OF WAGES, 1948										
BASIC MATERIALS	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.
Portland cement (6 tons and over) per ton 2-in. unscreened ballast per yard cube Fletton bricks (at station) per 1,000 Stoneware drain pipes (British Standard, 2 tons and over) Standard list+ Roofing tiles Standard list- Roofing tiles per 1,000 Steel joists (basic sections ex mills) per ton Lime greystone Steel for Standard list- Sheet lead (5 cwt1 ton lots) Iron rainwater goods and soil pipes List 3100 AB+	60/6 11/- 14/5 73/- 42½% 90/-+ 100% £17 % 84/9 £107 10s.	60/6 11/- 14/5 73/- 42½% 90/ 110% £17 13s. 84/9 £107 10s.	60/6 11/- 14/5 73/- 42½% 90/-+ 110% £17 16s. 6d. 84/9 £107 10s.	84/9 £107 10s.	60/6 11/- 14/5 73/- 42½% 90/-+ 110% £17 16s. 6d. 84/9 £130 15s.	£130 15s.					
White lead paint per gallon		43/3	42/9	42/9	42/9	42/9	42/9	70 % 42/3	70% 42/3	70% 42/3	70% 42/3
RATES OF WAGES (LONDON)— Within 12 miles radius Craftsmen per hour Labourers	2/10½ 2/3½ 2/3½ 2/10 2/3½	2/10½ 2/3½ 2/3½ 2/10 2/3½	2/10½ 2/3¾ 2/10 2/3¾	2/10½ 2/3¾ 2/10 2/3¾	2/10½ 2/3½ 2/10 2/3½	2/10½ 2/3¾ 2/10 2/3¼	2/11* 2/4* 2/10½* 2/3¾*	2/11 2/4 2/10½ 2/3≹	2/11 2/4 2/10½ 2/3¾	2/11 2/4 2/10± 2/3‡	2/11 2/4 2/10½ 2/3¾

Prices of materials above include for delivery to site in the Central London Area, and the rate of wages are for London only.

Current rates of wages outside London are as follows: Liverpool and District, Craftsmen, 2/11;

Labourers 2/4.

**GRADE CLASSIFICATIONS** Craftsmen Labourers

\* This increase took effect from beginning of pay week next following July 11, 1948.



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# Announcements

The first of a series of exhibitions of modern fluorescent lighting methods and equipment has been held in Manchester. Every aspect of design and equipment was included and a new no-glare fitting was shown for use as an adjustable lamp on the drawing board. Future exhibitions are to be held in Newcastles. Birmingham and Glasgow. The sponsors are Messrs. Miller Hepworth, Ltd., of Oldham, Lancs., and Hi-craft of London.

The directors of Messrs. Eastwoods Limited announce that Mr. George William Adson Miller, F.C.I.S. (managing director), has been appointed to the chairmanship of the group in succession to the late Mr. Sidney Garcke, c.B.E. Mr. Miller joined the parent company as secretary in 1923, became a director of Messrs. Eastwoods Cement Limited in 1933, general manager in 1940, and has been managing director since 1943.

Among the exhibits on the stand of Holoplast at the shipbuilding exhibition at the Salon Nautique, Paris, was a shell cabin in cream sprayed Holoplast panels with hammered finish. In the cabin were two cupboards of striped sapeli veneered panels, one enclosing a wash basin, etc. Lining the sides of the stand were photomontage panels mounted on cream sprayed Holoplast showing the applications of Holoplast in the Mauretania, the Queen Mary and other vessels.

The G.E.C. has issued a booklet show-

The G.E.C. has issued a booklet showing in pictorial form some of its recent achievements in electrical equipment for power generation, control, distribution and application. It is, of course, impossible to illustrate all of the firm's extensive and important achievements. Nevertheless, those chosen fully justify the claim of the

G.E.C. to supply "Everything Electrical." The firm employs \$0,000 people, has main works in London and nine other towns in this country, and overseas manufacturing facilities in Australia, India, South Africa, China, France and Eire.

Wentworth Castle, Stainborough, Yorks—dating in part back to the 17th century and at one time the seat of the Earl of Strafford—has been acquired by the Barnsley Education Committee for use as a training college for women teachers. This mansion is believed to have been the site of the first electric lighting system in Yorkshire. The original installation, carried out between the years 1882-1886, was executed by Mr. Wilson Hartnell, M.I.M.E., of Leeds, Yorkshire, and the fittings used bore the hallmark "Faraday & Sons," who, some electrical authorities believe, was related to Michael Faraday. The present lighting scheme has been carried out by the Barnsley District of the Yorkshire Electricity Board, and planned by the British Thomson-Houston Co. Ltd., who also supplied the necessary equipment.

Mr. J. M. Osborne, A.M.I.C.E., Managing Director of Dorman Long (Africa), Ltd., and a director of the parent company, Dorman Long & Co. Ltd., Middlesbrough, has been appointed Chairman of Dorman Long (Africa), Ltd., in succession to the late Viscount Greenwood.

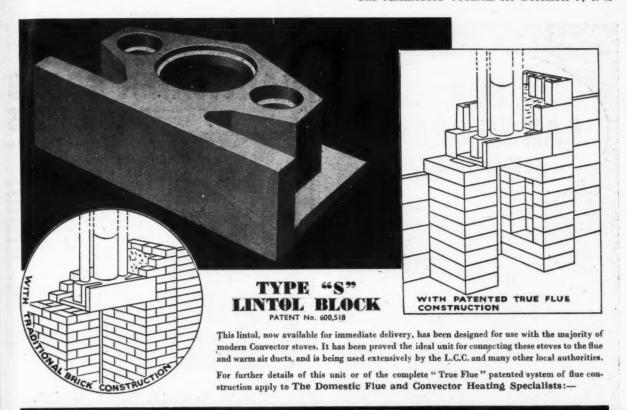
The following changes have been made in the directors and staff of Copperad, Limited. Additional directors, Mr. G. A. Mansfield (London director), with headquarters at 87, High Holborn, W.C.1; Mr. William White (Edinburgh director), with headquarters at 30, Rutland Square, Edinburgh, 1. Mr. John Barnes, who was previously at the London office, now takes up duties at the head office and works at Colnbrook as sales manager.

## Buildings Illustrated

Offices at Brentford (pages 529-530). Architect: Walter H. Williams, L.R.I.B.A. The general contractors are Messrs. Structural and Mechanical Development Engineers, Ltd. Sub-contractors: Site work and erection, Frank Bilton (London), Ltd.; site clearing and demolition, Wimpey and Co., Ltd.; clectrical installation, Holliday, Hall and Stinson, Ltd.; floor finish, Semtex, Ltd.; aluminium windows, Williams and Williams, Ltd.; false ceiling, Anderson Construction Co., Ltd.; aluminium alloy extensions for roof trusses, Southern Forse, Ltd.

aluminium alloy extensions for roof trusses, Southern Forge, Ltd. Carden School, Brighton (pages 531-534). Designed by D. J. Howe, M.I.C.E., M.I.MUN.E., Borough Engineer and Surveyor, and P. Billington, A.R.I.B.A., A.M.T.P.I., School Architect, General Contractors, Kirk & Kirk Ltd. Main sub-contractors: Precast concrete units, Tiling and skirtings, Orlit Ltd.; Electrical installation, Hall & Stinson Ltd.; Heating and hot water, G. N. Haden & Sons Ltd.; Flooring, Semtex Ltd.; Acoustical treatment, May Acoustics Ltd.; FloorTile Fixing, Zanelli (London) Ltd.; Glasscrete, J. A. King & Co. Ltd.; Structural steelwork, Banister Walton & Co. Ltd.; Steel doors, windows, wc, partitions, etc., Henry Hope & Sons Ltd.; Interior and exterior decorations, E. B. Blackwell Ltd.; Plasterers, W. A. Telling Ltd.; Roofing, Everseal Products Ltd.; Plumbing, Servants (Brighton) Ltd.; Paving, paths and playground, William F. Rees Ltd.; Glazing, Franklins; Sanitary fittings, Shanks & Co. Ltd.; Handrailing, cloakroom fittings, etc., S. Grahame Ross Ltd.; Reinforcement and false ceilings, Hy-Rib Sales; Special Paint, Clark-Gay & Co.; Paint suppliers, Arthur Sanderson & Sons, Ltd.





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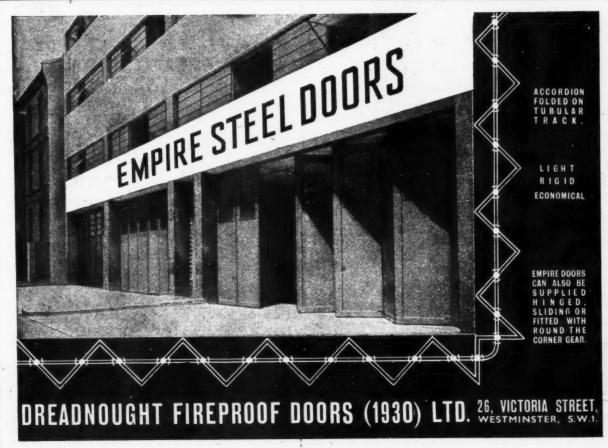
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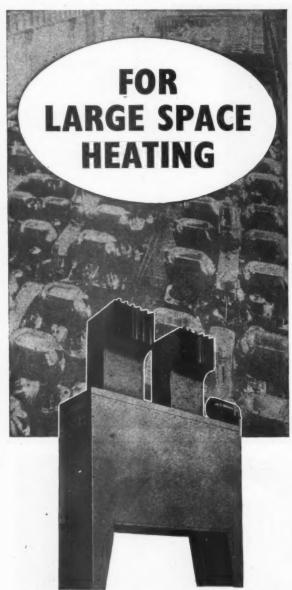
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S.B. 170

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TYPE "F" portable floor standing Heater in 1000 and 2000 watt loadings with built-in Thermostatic and/or 2 heat hand switch control as required. Black or Walnut Plastics Cabinets with luminous effect on anodised old-gold colour grilles.



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

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

ears of Three given above.

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Public and Official Announcements

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annuation contributions at the rate of 5 per cent.

of salary.

Successful 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.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (570).

FLINTSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments in the County Architect's Depart-

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(a) QUANTITY SURVEYORS (two vacancies).
Salary A.P.T., VI, £595, rising to £660 p.a., consolidated.
(b) ASSISTANT ARCHITECT. Salary A.P.T.,
V, £520, rising to £570 p.a., consolidated.
(c) ASSISTANT ARCHITECTS (two vacancies).
Salary A.P.T., IV, £480, rising to £525 p.a., consolidated.
Applicants for Consolidated.

Salary A.P.T., IV, £480, rising to £525 p.a., consulidated.

Applicants for (a) must be Members of the Boyal Institute of Chartered Surveyors (Quantities), and must be capable of preparing bills of quantities, estimates, measuring up and dealing with contractors' accounts for large contracts.

Applicants for (c) should be Registered Architects and Associate Members of the Royal Institute of British Architects, or possess similar qualifications, and should have had adequate professional experience in the preparation of Surveys, Designs, Specifications and construction of modern buildings, particularly school buildings.

Applicants for (c) should be Registerd Architects, preferably Members of the Royal Institute of British Architects, or possess similar qualifications, and should have had adequate professional experience of the preparation of Surveys, Plans and details for schools or other buildings dealt with by Local Authorities, and have a sound knowledge of design, construction and specifications.

The appointments will be subject to (a) the

tions.

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 registered

Act, 1937, and (c) a satisfactory medical examination.

Applications will be considered from registered disabled persons.

Applications on forms to be obtained from the nedersigned, accompanied by copy of one recent testimonial and the names and addresses of two other persons willing to supply further testimonials, are to be returned so as to be received not later than the 20th December, 1948.

W. HUGH JONES,
County Buildings, Mold.
22nd November, 1948.

446

LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff:—
(a) SENIOR ASSISTANT ARCHITECTS.
Grade VI. Salary £595-£660 per annum. Preference will be given to Members of the R.I.B.A.
(b) ASSISTANT QUANTITY SURVEYORS.
Grade VI. Salary £595-£660 per annum. Preference will be given to Members of the R.I.B.A.
(c) ASSISTANT QUANTITY SURVEYORS.
Grade VI. Salary £595-£660 per annum. Preference will be given to Associates of the Royal Institution of Chartered Surveyors (Quantity Surveyors' Division).

The appointments will be subject to the provisions of the Local Government Superannuation Act., 1937: to a satisfactory medical examination, and to the termination of each appointment Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.F.I., County Offices, Preston.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston. 24th November, 1948.

COUNTY OF LEICESTER.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following established posts in the County Architect's Department

ent :—
(a) SENIOR ASSISTANT ARCHITECTS.
P.T. Grade VI/VII. Salary £595-£660/£635-

(a) SENIOR ASSISTANT ARCHITECTS.
A.P.T. Grade VI/VII. Salary £595-£660/£635-£710.
(b) ASSISTANT ARCHITECTS. A.P.T., Grade V. Salary £502-£570.
(c) ASSISTANT ARCHITECTS. A.P.T., Grade IV. Salary £402-£55.
(d) ARCHITECTURAL ASSISTANTS. A.P.T., Grade III. Salary £40-£495.
(e) ENGINEERING ASSISTANT (ELECTRICAL). Grade VI. Salary £595-£660.
(f) ENGINEERING ASSISTANT (ELECTRICAL). Grade VI. Salary £595-£660.
(g) QUANTITY SURVEYOR AND ESTIMATING CLERK. Grade VI. Salary £595-£660.
Candidates for appointments (a) and (b) must be registered architects, and preference will be given to Associate Members of the R.I.B.A. who have had good experience in the design and construction of modern buildings.
Candidates for appointments (c) and (d) should be experienced in the preparation of surveys and working drawings, and preference will be given to Students of the R.I.B.A.
Candidates for appointment (e) must be Corporate Members, of the Institution of Electrical Engineers, and should be experienced in the preparation of schemes and specifications for electrical installations. Candidates for appointment (f) must be Corporate Members of the Institute of Heating and Ventilating Engineers, and should be experienced in the preparation of schemes and specifications for electrical installations for all types of County buildings, and the testing of existing installations.
Candidates for appointment (g) should be experienced in the preparation of modern heating hot water and ventilating systems, and the testing of existing installations.
Candidates for appointments (g) should be experienced in the preparation of complete bills of quantities, specifications, preliminary estimates, and stalements of interim and final accounts, including valuations for certificates.

The appointments will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superanuation Act, 1937, and to a satisfactory medical examination.

Act. 1937, and to a satisfactory medical examination.

Applications must be made on the forms to be obtained from the County Architect, T. A. Collins, A.R.I.B.A., County Offices, Grey Friars, Leicester. to whom they should be returned, accompanied by copies of three recent testimonials, not later than 31st December, 1948.

JOHN A. CHATTERTON.

Grey Friars, Leicester.

TARVIN RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Office of the Engineer and Surveyor.

Applicants must have had sound training by pupilage and had previous experience in design and construction of building works, particularly in relation to housing. Preference will be given to persons qualified by the examination of the R.I.B.A.

The salary will be in accordance with Grade II.

and construction of building works, particularly in relation to housing. Preference will be given to persons qualified by the examination of the R.I.B.A.

The salary will be in accordance with Grade II (Technical Division) of the National Joint Council Scheme, viz... 2420×215—2465.

The appointment will be subject to one month's notice in writing on either side, to the provisions of the Local Government Superannuation Act, 1337, and to the selected candidate passing satisfactorily a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be addressed to Mr. Thomas Pritchard, M.I.Mun.E., and enclosed in an envelope endorsed "Architectural Assistant," and should reach this office not later than Saturday, the 18th December, 1948.

(Sgd.) J. H. MOORE DUTTON, Clerk to the Council.

Westminster Buildings, Newgate Street, Clester.

24th November, 1948.

Clerk to the Council.

Westminster Buildings, Newgate Street, 994

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff in accordance with the National Scale of Salaries:—

(1) ONE ASSISTANT ARCHITECT. Grade VI, A.P. and T. Division. Salary £95-2660.

Applicants should be Associate E.I.B.A., with a good knowledge of work undertaken by a Local Authority.

(2) ONE ASSISTANT ARCHITECT. Grade IV, A.P. and T. Division. Salary £480-£252.

Applicants should be Associate E.I.B.A., with a good knowledge of work undertaken by a Local Authority.

(3) ONE ASSISTANT ARCHITECT. Grade IV, A.P. and T. Division. Salary £480-£252.

Applicants should be Associate E.I.B.A., with a good knowledge of work undertaken by a Local Authority. SSISTANT ARCHITECT. Grade IV, A.P. and T. Division. Salary £480-£252.

Applicants should have passed the Intermediate examination of the R.I.B.A., and have had good architectural experience.

The appointments will be required to pass a medical examination.

Form of applicants will be required

C. ASHTON, Town Clerk.

The Council House, Derby.

COUNTY BOROUGH OF SWANSEA.
BOROUGH ARCHITECT'S DEPARTMENT.
ARCHITECTURAL AND MAINTENANCE
STAFF.
Applications are invited for the following appointments on the Established Staff in the Borough Architect's Department:

(1) TWO SENIOR ASSISTANT ARCHITECTS (Grade A.P.T., VI). Salary £595 to £660 per annum.

Grade A.P.T., VI). Salary £595 to £660 per annum.

(2) A MAINTENANCE SURVEYOR (Grade A.P.T., VI). Salary £596 to £660 per annum.

(3) TWO MAINTENANCE SURVEYOR (Grade A.P.T., V). Salary £520 to £570 per annum.

(3) TWO MAINTENANCE INSPECTORS (Grade A.P.T., II). Salary £420 to £465 per annum.

The salary scale is that of the National Scheme of Conditions of Service.

Applicants for appointment as Senior Assistant Architect must be Associates of the Royal Institute of British Architects, with sound experience either in Municipal or Private Offices. For one appointment, Housing experience is desirable, and for the other appointment as Maintenance Surveyor must be Associates of the Royal Institution of Chartered Surveyors, or hold other equivalent qualifications, and must have experience in the maintenance adaptation or alteration of all types of buildings.

For appointment as Maintenance Inspectors, candidates must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors or hold equivalent qualifications, and must have experience in the preparation of Schedules of Dilapidation, War Damage Claims, and the maintenance of buildings.

Candidates must be under 45 years of age, unless in Local Government Superannuation and the maintenance of buildings.

Candidates must be under 45 years of age, unless in Local Government Service.

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

The appointments may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., Guildhall, Swansea.

Applications, accompanied by copies of three recent testimonials and enclosed in an envelope endorsed with the title of the appropriate postmust be delivered to the undersigned not later than Tuesday, 21st December, 1948.

Clerk. Guildhall, Swansea. 24th November, 1948.

BOROUGH OF BRENTFORD AND CHISWICK.
BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited for the appointment of one ARCHITECTURAL ASSISTANT, on the permanent staff and two on the temporary staff, at a consolidated salary according to the A.P.T.
Division, Grade V, of the National Scheme, commencing lat year, plus revised London weighting according to age.
Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects (or who hold a similar qualification), but consideration will also be given to applications from persons intending shortly to take the Associate examination.
Applicants should have had experience in general architectural work, school and house planning and design, including the preparation of working drawings, specifications and setting out.
Applications for each of the above-mentioned

Out.

Applications for each of the above-mentioned appointments must be made on the prescribed form (which contains particulars and conditions of appointment), obtainable from the undersigned, by whom applications must be received not later than the 23rd December, 1948.

W. F. J. CHURCH,

Town Hall. Chiswick, W.4.

W. F. J. CHURCH,
Town Hall, Chiswick, W.4.

CITY OF GLOUCESTER.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.
CHIEF PLANNING ASSISTANT.
Applications are invited for the appointment of CHIEF PLANNING ASSISTANT (Frade VII.)
A.P. and T. Division, £635 to £710 p.a.).
Applicants should be Corporate Members of the Town Planning Institute with, preferably, recognized qualifications in Civil Engineering, Surveying or Architecture, have had considerable experience in Planning procedure and be competent to take charge of the Planning side of a City Engineer and Surveyor's office.
The appointment will be subject to the provisions of the Local Government Superannation. Act, 1937, and the successful candidate will be required to pass a medical examination. Terms and conditions of service will be generally in accordance with the Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services. Canvassing, directly or indirectly, will disquality.
Applications, stating fully, age, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed chief the undersigned not later than Wednesday, 22nd December, 1948.

L. O. NEED, Town Clerk.

L. O. NEED. Clerk

Guildhall. Gloucester.

BOROUGH OF CHELTENHAM.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL

ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants, at salaries in accordance with the following grades, and subject also to the Scheme and Conditions of Service of the National Joint Council for Local Authorities:—

(a) Permanent, Grade III, A.P. and T. Division (£450 p.a., rising to £495 p.a.).

(b) Temporary, Grade A Class I (£316 5s. p.a., rising to £345, plus £59 15s. bonus).

Candidates must have been regularly trained. Applicants for appointment (a) should be Registered Architects, preferably students of the R.I.B.A., and able to deal with the work normally carried out by a Local Authority. They should, further, be accurate draughtsmen and able to carry through works involving design and the writing of specifications, and should have a knowledge of Municipal housing.

Applicants for appointment (b) should have completed Articles, be competent draughtsmen, and able to assist generally with the work of the Department.

The successful candidates will be subject to one

Department.

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

Applications, stating age qualifications and details of previous experience, accompanied by copies of two recent testimonials, should be sent to 4. Gould Marsland, B.Sc., M.Inst.C.E., Borough Engineer, Municipal Offices, Cheltenham, not later Monday, 13th December, 1948.

F. D. LITTLEWGOD Town Clerk.

Municipal Offices, Cheltenham. WR/ADM/R. 19th November, 1948.

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.
The Essex County Council invite applications for TWO ARCHITECTURAL ASSISTANTS, as set out below, to work in the office of the Borough Engineer of Ilford, to deal with work for the Committee for Education.

ONE ARCHITECTURAL ASSISTANT. A.P.T. Division, Grade V. (Applicants should be Members of the Royal Institute of British Architects.)

Members of the Royal Institute of British Architects.)
ONE ARCHITECTURAL ASSISTANT. A.P.T.
Division, Grade III. (Applicants abould have
had good general training and experience.)
Application must be made on a form to be
obtained from the Borough Education Officer and
returned to him at the Town Hall, Illford, tegether
with copies of not more than three recent testimonials, within 14 days of the appearance of this
advertisement.

devertisements.

HERTFORDSHIRE COUNTY COUNCIL.
APPOINTMENT OF DEPUTY DIVISIONAL
PLANNING OFFICER TWO VAGANCIES).
Applications are invited for the appointment of
Deputy Divisional Planning Officer (two vacancies),
at a salary of £685 per annum, rising by annual
increments of £85 to £760 (Grade VIII, A.P.T.),
together with travelling and subsistence allowances in accordance with the Council's scale.
Applicants should have had considerable experience in controlling development, and preference will be given to candidates with experience
in controlling elevations by planning. Applicants
must be Corporate Members of the Town Planning
Institute and hold other professional qualifications.

Forms of application may be obtained from the County Planning Officer, County Hall, Hertford, and should be returned not later than the 20th December, 1948.

Conny Figure 2. See Conney Figure 2. See Conney Figure 2. See Conney Con

Council Offices, Bexleyheath, Kent.

Conneil Offices, Bexleyheath, Kent. 1007
CITY OF CANTERBURY.
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Architectral Assistant, in the City Architect's Department, at a salary in accordance with Grade A.P.T., II, £420×£15—£45.
Applicants must have passed the Intermediate examination of the Royal Institute of British Architects.
The successful candidate will be required to pass a medical examination.

The successful candidate will be required to pace a medical examination.

Applications, endorsed "Architectural Assistant," giving age, full particulars of experience and qualifications, and the names of three persons to whom reference can be made, should be received by Mr. L. Hugh Wilson, A.B.I.B.A., A.M.T.P.I., City Architect, not later than Friday, 17th December, 1948.

J. BOYLE.

J. BOYLE, Town Clerk.

Municipal Buildings, Canterbury. 24th November, 1948.

BOROUGH OF HESTON AND ISLEWORTH.

APPOINTMENT OF DRAUGHTSMAN.

Applications are invited for the appointment of Draughtsman, in the Town Planning Section of the Borough Engineer and Surveyor's Department, at a salary in accordance with Miscellaneous Division, Grade I. of the National Scale of Salaries (£315×£15—£360 per annum), plus appropriate London weighting.

Applicants, male or female, must be capable and expeditions draughtsmen, and preference will be given to those with Town Planning experience. The appointment is a permanent one, and will be terminable by one month's notice on either side. The conditions of service will be those of the National Joint Council for Local Authorities' Administrative, Professional and Clerical Services. Forms of application may be obtained from the Borough Surveyor, 88, Lampton Road, Hounslow, by sending a foolscap stamped addressed envelope. Applications on the forms provided, together with particulars of training and experience and the names and addresses of three references, must reach the undersigned in an envelope endorsed "Draughtsman" not later than noon on the 20th December, 1948.

Canvassing will disqualify.

HAROLD SWANN, Town Clerk Council House, Hounslow, Middlesex.

Applications are invited for the following appointments in the City Engineer's Department.

(1) ARCHITECTURAL ASSISTANT. Salary

(1) ARCHITECTURAL ASSISTANT. Salary Grade VI. £595 to £660.

(2) ARCHITECTURAL ASSISTANT. Salary Grade V. £595 to £660.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction, and also be experienced in the management of building contracts.

The appointments will be subject to:—

(a) The Conditions of Service of the National Joint Council as adopted by the City Council.

(b) The Provisions of the Local Government Superannuation Act, 1937.

(c) The passing successfully of a medical examination.

amination.

Applications, stating age, qualifications and experience, together with particulars of past and present employment, accompanied by copies of two recent testimonials, should be forwarded in envelopes endorsed "Architectural Assistant," addressed to the City Engineer, Town Hall, Salford, 3, and be delivered not later than Monday, 20th December, 1948.

Applicants must disclose in writing whether or not they are related to any member of the Council or an Officer of the Authority.

H. H. TOMSON, Town Clerk

BOROUGH OF DEAL.

JUNIOR ARCHITECTURAL ASSISTANT.
Applications are invited from suitably qualified persons for the permanent appointment of Junior Architectural Assistant, in the Borough Engineer and Surveyor's Department.
Salary on Grade I of the National Consolidated Scale of 2390 per annum, rising, subject to satisfactory service, to £435 per annum.
Candidates must have had proper training in the profession, and should have had experience in general Municipal architecture.
The appointment will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side, and the successful candidate will be required to pass a medical examination.
Applications, stating age, qualifications and experience, with the names and addresses of two persons to whom the Council may refer, must reach the undersigned not later than first post on Monday, the 20th December, 1948.

D. A. DANIELS.

D. A. DANIELS.

own Clerk.

Municipal Offices, Queen Street, Deal, Kent. 26th November, 1948.

Deal, Kent.

26th November, 1948.

BOROUGH OF HESTON AND ISLEWORTH.
ENGINEER AND SURVEYOR'S
DEPARTMENT.

APPOINTMENT OF TWO GENERAL ARCHITURAL ASSISTANTS.

Applications are invited for the appointment of two Architectural Assistants, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade III of the A.P.T.
Division of the National Scale, viz., 2450-2495 per annum. plus London weighting.
Candidates should have good architectural experience and should have good architectural experience and should have passed the Intermediate examination qualifying for Associate Membership of the Royal Institute of British Architects. Preference will be given to candidates who have had experience in the preparation of working and detailed drawings in connection with housing and other Local Government work.

The appointments are permanent ones, subject to the National Scheme of Conditions of Service, and forms of application may be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, by sending a stamped, addressed envelope. Applications on the forms provided, endorsed "General Architectural Assistant," should be delivered to the Borough Engineer and Surveyor not later than noon on 20th December, 1948.

HAROLD SWANN,
Town Clerk.

HAROLD SWANN, Town Clerk.

Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Department:—

(a) ONE ASSISTANT ARCHITECT, acting as Section Deputy. Salary on Grade A.P.T. Va. commencing at £550 per annum and rising to £610 per annum

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commencing at 2500 per annum ent result to some per annum.

(b) ONE ASSISTANT ARCHITECT. Salary Grade A.P.T., V. commencing at 2520 per annum and rising to 2570 per annum. Candidates for the above appointments should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

or non-versions. Assistant Architects. Salary Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum. (d) ONE ASSISTANT ARCHITECT. Salary Grade A.P.T., I, commencing at £390 per annum and rising to £435 per annum. (e) ONE QUANTITY SURVEYOR, acting as Section Deputy. Salary Grade A.P.T., VII. commencing at £635 per annum and rising to £740 per annum.

annum.
Candidates should be Professional Associates
of the Royal Institute of Chartered Surveyors
(Quantities Division).
Salary increments are subject to satisfactory

Quantities Division).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1966, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Tuesday, 13st December, 1948.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON.

D. E. E. GIBSON, City Architect.

D. E. E. GIBSON.

La, Warwick Row, Coventry.

2nd December, 1948.

SOUTH-WESTERN REGIONAL HOSPITAL

BOARD.

SANDHILL PARK GROUP HOSPITAL

MANAGEMENT COMMITTEE.

Appplications are invited for the post of
ENGINEER AND CLEEK OF WORKS for the
Group's Hospitals.

Salary £550, rising by annual increments of
£20 to £650 per annum.

The person appointed will be responsible for the
satisfactory operation and maintenance of all
engineering services in the Committee's hospitals
and the maintenance of the fabric of the buildings. He should have a sound knowledge of the
efficient operation of Institutional boiler plants,
engineering and electrical services, and be competent to advise on and supervise building maintenance and painting work, including the application of the local Bye-laws and Town Planning
Acts.

The appointment will be subject to the pro-

Acts.

The appointment will be subject to the provisions of the National Health Service (Superannuation) Regulations, 1947, and the successful applicant will be required to pass a medical examination.

applicant will be required to paramate to paramate animation. Applications, stating age, qualifications and experience (including present position and past appointments), and giving the names of three referees, should reach the undersigned on or before the 6th January, 1949, under cover endorsed "Engineer and Clerk of Works."

E. V. ROSE, Secretary.

Secretary.

Secretary.

Sandhill Park, Bishops Lydeard,
Taunton, Somerset.

BOYAL BURGH OF ARBROATH.
HOUSING ARCHITECTS AND TOWN
PLANNING DEPARTMENT.

Applications are invited for the following appointments in the above department:

(a) TOWN PLANNING ASSISTANT. Salary Grade A.P.T., V (£520-£570 per annum, consolidated).

Applicants should have had previous experience in the preparation of Planning Schemes for Urban Areas. Preference will be given to those who have passed the Final examination of the Town Planning Institute.

Should the successful applicant be married, housing accommodation will be made available by the Council.

the Council.

(b) JUNIOR ARCHITECTURAL ASSISTANT.
Salary Grade A.P.T., I (£390-£435 per annum, consolidated).

Salary Grade A.P.T., I (£390-£435 per annum, consolidated).

Applicants should have had experience in general architectural work. Preference will be given to those who have passed the Intermediate examination of the R.I.B.A.

The successful applicants will be required to pass a medical examination, and will be subject to the provisions of the Local Government Superannuation (Scotland) Acts.

Applications (suitably endorsed), stating age, whether married or single, qualifications, present post and salary, previous posts and details of experience, together with copies of two recent testimonials, should be lodged with the undersigned not later than Friday, 24th December, 1948.

WM. D. SMITH,

Town House, Arbroath.

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NT. con in be to CITY OF MANCHESTER.

HOUSING COMMITTEE.

Applications are invited from persons having suitable experience for the appointment of ASSISTANT ARCHITECTS. Salary Grade A.P.T., IV, of the N.J.C. Scales (£480 to £525 per annum). 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, qualifications and experience, together with copies of two testimonials, mast be submitted to Mr. A. Mackenzie, LE.I.B.A., Director of Housing, Town Hall, Manchester, 2, endorsed "Assistant Architect," not later than 13th December, 1948.

Canvassing in any form, oral or written, direct or indirect, is prohibited.

PHILIP B. DINGLE.

Town Clerk.

Becember, 1948.

pecember, 1948.

December, 1948.

COUNTY BOROUGH OF EAST HAM.
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the under-mentioned appointments:

ENIOR ARCHITECTURAL ASSISTANT.
Grade A.P.T., VI. Salary £595-£660.
ARCHITECTURAL ASSISTANT. Grade A.P.T., VI. Salary £595-£660.
ARCHITECTURAL ASSISTANT. Grade A.P.T., VI. Salary £480-£525.
CHIEF QUANTITY SURVEYOR. Grade A.P.T., VII. Salary £480-£525.
CHIEF QUANTITY SURVEYOR. Grade A.P.T., VII. Salary £635-£710.
London allowance is payable in addition to the above salaries as follows:
Age 21-25. £20 per annum.
Age 22-30. £10 per annum.
Age 25-30 der annum.
Salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.
The Council have in course of preparation a large and varied programme of interesting works, which it is anticipated will not be affected by the proposed reductions in capital expenditure.
Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence—allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.
Full particulars of the duties, terms and conditions of appointment and form of application (which must be retarned by Monday, the 20th Becember, 1948) may be obtained from the undersigned.
Canvassing in any form will disqualify.

H.A. EDWARDS.

Signed.
Canvassing in any form will disqualify.
H. A. EDWARDS,
Town Clerk.

Canvassing in any form will disqualify.

H. A. EDWARDS.

Town Hall, East Ham. E.6.

December, 1948.

COUNTY BOROUGH OF WEST HAM

BOROUGH ARCHITECT AND PLANNING

OFFICER'S DEPARTMENT:

Applications are invited for the following established posts:—

(a) CHIEF ASSISTANT—TOWN PLANNING

(£860×£50—£1,000 p.a.).

Applicants must have had considerable experience in redevelopment of war damaged and

obsolescent areas; examination of Development Applications; preparation of evidence for Public Inquiries; and Committee work. Preference given to those who are A.R.I.B.A., A.M.T.P.I.

Successful applicant to take charge of Town Planning Section.

(b) ASSISTANT ARCHITECT. A.P.T., VI

(£559×£20×£20×£25—£660).

Applicants should be A.R.I.B.A., and experience in Housing or Education works.

(c) ARCHITECTURAL ASSISTANTS. A.P.T., II (£420×£15—£465).

Applicants should be Students of R.I.B.A. and have had two years' office experience.

(d) CLERK/SHORTHAND TYPIST. General Division (male, £160 at 18 yrs. =£385 at age 32; female, £128 at 18 yrs. =£386 at 32, with additional payment up to age 29 if suitably qualified). Applicants must be competent shorthand typists and experience in Architect's or Builder's office an advantage.

Plus London allowance in respect of (b) to (d). Details, together with application form (returnable by 1st January, 1949), may be obtained from Borough Architect and Planning Officer, 70, West Ham Lane, E.15.

Borough Architect and Planning Officer, 70, West Ham Lane, E.15. 1027

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at salaries of up to 2700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's Permanent staff and for advancement on the occurrence of vacancies.

Duties will include:

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of conderable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from

measurement of variations and the control of the county application may be obtained from the Director of Housing and Valuer, The County Hall. Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifies. (2140) 752

CITY OF BIRMINGHAM EDUCATION
COMMITTEE.
APPOINTMENT OF ASSISTANT ARCHITECTS.
Applications are invited for the appointment of
FOUR ASSISTANT ARCHITECTS, on the staff of
the Chief Education Officer, to work under the
direction of the Architect to the Education Committee

mittee.

The salaries payable are as follows:—
(a) A.P.T., VI, £595-£660 (two posts).
(b) A.P.T., IV, £480-£282 (two posts).
Applicants must be Architects, preferably qualified by examination, with good experience in the preparation of working drawings for major schemes.

The appointments, which are for full-time service on the permanent staff, are subject to the provisions of the Local Government Superannuation Act, and to the passing of a medical examination.

annuation Act, and to the passing of a medical examination.

Forms of application, which are obtainable from the undersigned on receipt of a stamped addressed envelope, must be returned not later than two weeks after the appearance of this advertisement.

E. L. RUSSELL,

Education Office, Margaret Street,

Birmingham, 3. 1021

LONDON COUNTY COUNCIL.

VACANCIES FOR QUANTITY SURVEYORS AND ASSISTANTS IN ARCHITECT'S DEPARTMENT.

SURVEYOR. Grade III, £550×£25—£700 a year.

SURVEYOR. Grade III, £550×£25—£700 a year.

TEMPORARY TECHNICAL ASSISTANT:
(a) £440×£20—£580 a year.
(b) Up to 167s. 6d. a week.
Commencing rates according to qualifications and experience.
Candidates for Grade III positions should be Associates of the Royal Institution of Chartered Surveyors, and be experienced in abstracting and billing, estimating, interim valuations for payments on account, measuring, adjusting and agreeing final accounts. "taking off." and the preparation of Bills of Quantities. Other candidates should also have a working knowledge of these matters.

preparation of Bills of Quantities. Other candidates should also have a working knowledge of these matters.

Successful candidates will be superannuable, and will be considered for permanent appointment as vacancies arise.

Application forms from Architect (Q), County Hall, Westminster Bridge, S.E.I., enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (2091)

ISLE OF WIGHT COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff of the County Architect's Department:—

(a) THREE SENIOR ASSISTANT ARCHITECTS.—Salary A.P.T., Grade VI, i.e., £595-£660 per annum.

Candidates should be Associates of the Royal Institute of British Architects or hold a similar qualification, and preferably have had experience of the planning, design and construction of educational buildings and other architectural work undertaken by a Local Authority.

(b) THREE ARCHITECTURAL ASSISTANTS. Salary A.P.T., Grade III, i.e., £450-£495 per annum.

Candidates should be good draughtsmen, capable

(b) THERDS and Salary A.P.T., Grade III, 1.6. The salary A.P.T., Grade III, 1.6. The salary A.P.T., Candidates should be good draughtsmen, capable of carrying out plans and details for general architectural work. Preference will be given to candidates having an appropriate architectural qualification.

faction.

Applications, to be made on a form to be obtained from the County Architect. Mr. Frederick H. Booth, A.R.I.B.A., A.M.T.P.I. should be returned completed to the undersigned at the address stated below, together with a copy of one recent testimonial and the names of two persons to whom reference can be made, not later than Monday, 20th December, 1948.

T. H. BAINES.

of one recent testimonial and the names of two
persons to whom reference can be made, not later
than Monday, 20th December, 1948.

L. H. BAINES,
Clerk of the County Council.

County Hall, Newport, 1948.

COUNTY BOROUGH OF EASTBOURNE.
APPOINTMENT OF ASSISTANT
APPOINTMENT OF ASSISTANT
ARCHITECTS.
Applications are invited for the under-mentioned
posts, on the Staff of the Borough Engineer:

(a) ONE ASSISTANT ARCHITECT. Grade
A.P.T. VIII, £685-£760 p.a.

The successful applicants will be engaged in the
design and construction of a large mixed
Modern Secondary School, and experience of this
or other type of new School will be an asset.
Applicants should be Associate Members of the
Royal Institute of British Architects, and should
have had good experience in the design, supervision and construction of new buildings.
The appointments are subject to the National
Joint Council's Conditions of Service, and the
Local Government Superannuation Act, 1937.
Applications, giving full details of qualifications
and experience, together with the names and
addresses of two persons from whom references
can be obtained, should be forwarded in an
envelope endorsed with the title of the appointment applied for, to this Office, so as to reach
the same not later than Thursday, the 30th
December, 1948.

RAYMOND WILLIAMS, B.Sc.,
AMI.C.E.,
Borough Engineer.

2/4, Saffrons Road, Eastbourne.

2/4, Saffrons Road, Eastbourne. 29th November, 1948.

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £500 a year), in the Housing and Valuation Department. Commencing salaries in either 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.

Successful 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, West-minster Bridge, S.E.I. (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2569)

The Ministry of Supply invites applications for an appointment as ENGINEER at a Research and Development Establishment. Candidates, who must be of British nationality, born of British parents (see detailed regulations, a copy of which can be obtained on application of Ministry of Supply, Ison A33 Adelphi, John Adam Street. Strand, W.C.2, must be experienced Mechanical Engineers, and have Corporate Membership of the Institutions of Civil or Mechanical Engineers, A and B of the Associate Membership examination. (Preference will be given to candidates having an Honours Degree.). They should have served an apprenticeship and have had considerable experience in the operation, maintenance and testing of mechanical earth-moving machinery, excavators, tractors and graders. A knowledge of road-making machinery, stone-crushing and bitument handling plant would be an advantage. The duties of the post include supervision of the development of British plant of the above types. The appoi

will be determined in relations of the Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, for application forms, which must be completed within 10 days of the date of this advertisement, 15.11.A.16(50)

BURGH OF KILMARNOCK.

BURGH OF KILMARNOCK.

BURGH OF KILMARNOCK.

BURGH ARCHITEOT AND TOWN PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following appointments in:—
(1) BURGH ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECT. Salary Grade A.P.T., V (£520×£15 to £570, including war bonus).

(2) TOWN PLANNING DEPARTMENT.
PLANNING ASSISTANT. Salary Grade A.P.T., III (£450×£15 to £495, including war bonus).

A.P.T., III (£450×£15 to £495, including warbonus).

Applicants for appointment as Assistant Architect should have a professional qualification and previous Municipal and housing experience.

Applicants for appointment as Planning Assistant should have previous experience in a Planning Department and additional architectural or surveying experience.

Applicants must not exceed 45 years of age unless already contributory employees under the Local Government and Other Officer's Superannation (Scotland) Act, 1937. War service may be deducted from present age to satisfy this condition.

deducted from present age to satisfy this constition.

The persons selected for appointment will require to pass a medical examination, and on satisfying this condition will become contributory employees under the above-mentioned Act.

Applications, accumpanied by one copy of each of three recent testimonials, stating age, qualifications and experience, and for which post application is made, should be lodged with the Burgh Architect and Town Planning Officer, 11, London Road, Kilmarnock, not later than 10 a.m. on Monday, 13th December, 1948.

W. L. WALKER,

Town Clerk.

W. L. WALKER,
Town Clerk.

27th November, 1948.

METROPOLITAN BOROUGH OF
WANDSWORTH.

ARCHITECTURAL ASSISTANTS.

Applications are invited for two established appointments as Architectural Assistants, in the Borough Architect's Department, at a salary in accordance with Grade A.P.T., VII (2665-2740 per annum inclusive).

Candidates should be fully experienced in the design and planning of housing estates, particularly multi-storey blocks of flats and/or other framed buildings and in supervising their erection. Preference will be given to Associates of the B.I.B.A.

Forms of application may be obtained from the Borough Architect, and must be returned to the undersigned not later than 184th December, 1948.

By Irder.

R. H. JERMAN.

Town Clerk.

Municipal Buildings, Wandsworth, S.W.18. 981

EAST SUPFOLK COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following poets, a the County Architect's Department:—
(a) Grade A ASSISTANT ARCHITECTS. P.T., Grades V and VI. Consolidated salary

rade B ASSISTANT ARCHITECTS.
Grades III and IV. Consolidated salary

2450-2525.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointment (a) must be Registered Architects, and preferably Associates of the B.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtemen, capable of carrying a job through in all its stages, and with a sound knowledge of design, building construction and specifications, and must

men. capable of carrying a job through in all its stages, and with a sound knowledge of design, building construction and specifications, and must have had at least 6 years' office experience, excluding articles, etc.

Applicants for appointments (b) must be Registered Architects, and preferably members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with \$i\$ in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications, and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to B. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 30th December, 1948.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

G. C. LIGHTFOOT.

Cerk of the Council.

BOROUGH OF WIDNES.

APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited for the appointment of Borough Architect, at a salary of £900 per annum, rising by annual increment of £50 to £1,000 per

The person appointed will be required to take charge of the Architect's Department act up by the Council, which carries out all architectural work, including housing, schools and public build-

work, including including in the considerable experience in Municipal Architectural work, they should be Associates of the Royal Institute of British Architects, and preference will be given to candidates possessing a University Degree in Architectural Progression of the Constitution o

dates possessing a University Degree in Architecture.

Applications, stating age, present and previous positions, technical training and qualifications (with dates), and concise particulars of experience, together with the names and addresses of three persons to whom reference may be made, must be delivered, endorsed "Borough Architect." to the undersigned on or before Friday, 31st December, 1948.

undersigned on or before Friday, 31st December, 1948.

The appointment, which will be terminable by three months' notice on either side, is subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services. Canvassing will be a disqualification, and applicants must disclose any relationship to members of the Council.

The Corporation will provide a house for the successful candidate if required.

JAMES WALLACE,
Town Hall. Widnes.

Town Hall, Widnes. 1st December, 1948.

last December, 1948.

B.B.C. invites applications from Registered Architects for an appointment as ARCHITEC-TURAI ASSISTANT, based in London. They should have a sound knowledge of building construction and at least three years' practical experience in an office. Preference will be given to applicants between the 'ages of 25-35 and trained in an Architectural School. The salary is in a grade rising by annual increments of £25 to a maximum of £560 per annum. Applications, stating age, qualifications, experience and past and present appointments, should reach the Engineering Establishment Officer, Broadcasting House. London, W.1, within 7 days of the appearance of this advertisement. this advertisement.

this advertisement.

COUNTY BOROUGH OF NEWPORT.

APPOINTMENT OF CHIEF PLANNING
OFFICER.

Applications are invited for the post of Chief
Planning Officer, to the above Authority, at a
salary of 21.100×250 to 21.300. Candidates must
be Corporate Members of the Town Planning
Institute, with suitable administrative experience,
and it will be an advantage to possess additional
technical or professional qualifications.

The successful candidate must pass a medical
examination, and the appointment, which is
superannuable, will be determinable by three
months' notice on either side. Application forms
may be obtained from the undersigned, and should
be returned not later than the 1st January, 1949.

T. MERVYN JONES.

T. MERVYN JONES, Town Clerk.

Town Hall, Newport, Mon. December, 1948.

APPOINTMENT OF CHICHESTER.
APPOINTMENT OF BUILDING SURVEYOR
AND DEVELOPMENT CONTROL ASSISTANT.
Applications are invited for the above appointment in the City Engineer and Surveyor's Department. The salary will be in accordance with Grade III of the A-P.T. Division of the National Joint Council Salary Scales (£450×£15—£495 per annum).

Joint Council salary Scales (£450×£15—£495 per annum).

Applicants should have had previous service in a Local Government office, together with experience of Development Control, and must possess the Building Inspector's Certificate of the Institution of Municipal Engineers, and should have passed at least the Intermediate examination of one of the following:—
Institution of Municipal Engineers,
Royal Institute of Chartered Surveyors.
Royal Institute of British Architects.
Town Planning Institute.
The person appointed will deal with the following matters:—
Building Bye-laws,
Public Health Acts,
Factories Act, 1937, Section 34,
Petroleum Regulations,
Development Control, including the Control of Advertisement Regulations,
Building Licensing under Defence Regulations
564.

Advertisement Regulations,
Building Licensing under Defence Regulations
56A.

If the successful candidate possesses a car,
he will be classified as an Essential User, in
accordance with the scale recommended by the
Rational Joint Council for Local Authorities'
Administrative, Professional, Technical and
Clerical Services. The appointment will be subject to the provisions of the Local Government
Superannuation Act, 1937, the passing of a medical
examination, and will be terminable by one
month's notice on either side.
Application forms may be obtained from the
City Engineer, Mr. R. A. J. Cork, A. M. L.C. E., and
must be returned to him accompanied by copies
of three recent testimonials, in order to arrive
not later than Tuesday, 28th December, 1948.
Canvassing, either directly or indirectly, will be
a disqualification.

a disqualification.

ERIC BANKS.
Town Clerk.
Council Offices, North Street, Chichester. 1067
BOROUGH OF LEYTON.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT,
Applications are invited for the appointment of a TOWN PLANNING ASSISTANT, in the Department of the Borough Engineer and Surveyor.

of a TOWN PLANNING ASSISTANT, in the Department of the Borough Engineer and Surveyor.

The salary will be £595 per annum, rising by two annual increments of £20 and one of £25 to a maximum of £660 per annum (Grade VI of the National Joint Council's Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services), plus £30 per annum weighting.

Candidates must have had good experience in the preparation and administration of Town Planning, Candidates must have had good experience in the preparation and administration of Town Planning.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidate satisfying the Medical Officer as to his fitness, to the Scheme of Conditions of Service for the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the general conditions laid down from time to time by the Council, including membership of a trade union.

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose in their application whether they are related to any member or senior officer of the Council.

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor not later than Jist December, 1948, in a sealed envelope endorsed "Town Planning Assistant."

Town Hall, Leyton, E.10, Essex. 1055 BANRURY AND DISTRICT HOSPITALS

D. J. OSBORNE.
Town Hall. Leyton, E.10. Essex.

Town Clerk.
1055
BANBURY AND DISTRICT HOSPITALS
MANAGEMENT COMMITTEE (NO. 3 OXFORD
REGION).

Appointment of ARCHITECT. Applications are invited from Fellows or Associates of the Royal Institute of British Architects for the above appointment. The gentleman appointed will advise on architectural matters relating to the hospitals and other premises under the administration of the Management Committee and carry out such relative professional, administrative, and executive duties as may be required. Applicants should be experienced in architectural practice, especially in relation to hospital work. Remuneration will be according to the R.I.B.A. scale.
Applications, giving particulars of qualifications and experience, together with the names of two persons to whom reference may be made. should be sent not later than 29th December, 1948, to the Secretary, Banbury and District Hospitals Management Committee, 51, Oxford Road. Banbury, Oxon.

B.B.C. invites applications for the post of JUNIOR ARCHITECTURAL ASSISTANT in the

Banbury, Oxon.

Banbury, Oxon.

B.B.C. invites applications for the post of JUNIOR ARCHITECTURAL ASSISTANT, in the Building Department, based in the London Area, Candidates must be of R.I.B.A. Intermediate standard, and are required for work in connection with studio and office premises. The salary is in a grade rising by annual increments of £20 to a maximum of £475 per annum. Applications, stating age, qualifications and experience, should reach the Engineering Establishment Officer, Broadcasting House, London, W.I. within 7 days of the appearance of this advertisement.

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To

COUNTY BOROUGH OF BURNLEY
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the appointment of
ARCHITECTURAL ASSISTANT, at a salary in
accordance with Grade II of the National Scales
(£420, rising to £466 per annum).
Preference will be given to candidates who
have passed the Intermediate examination of
the Royal Institute of British Architects, and
some experience of educational buildings and/or
housing would be an advantage.
Conditions of service are those formulated by
the National Joint Council, and the appointment
is on the established staff and subject to the
provisions of the Local Government Superannation Act, 1937. The successful applicant will be
required to pass a medical examination.
Forms of application may be obtained from
the Borough Engineer and Surveyor, Town Hall,
Burnley, to whom applications should be returned
in the envelope provided not later than noon
on Friday, the 7th January, 1949.
C. V. THORNLEY.
Town Hall, Burnley.
December, 1948.

Town Hall, Burnley. December, 1948.

December, 1948.

CROWN AGENTS FOR THE COLONIES, Applications from qualified candidates are invited for the following post:

BUILDING SURVEYOR required by the Hong Kong Government Public Works Department for three years, with prospect of permanency. Commencing salary, including expatriation pay according to qualifications and experience in the scale, \$1,048 a month, rising to \$1.820 a month. In addition a cost-of-living allowance of up to \$425 a month is payable. (The Government rate of exchange is at present is dollars to the £, but is liable to alteration). Free passages. Candidates, not over 40 years of age, must be Chartered Surveyors, preferably in both the Building and Quantities Divisions, and have had at least 5 years' experience in a City Engineer's or similar office dealing with the approval of plans for the construction of building including reinforced concrete framed structures. Apply at once, by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonics, Millbank, London, S.W.I., quoting M/N/23704/3D on both letter and envelope.

NEWCASTLE-UPON-TYNE REGIONAL

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.

DIVISIONAL ASSISTANT ARCHITECT.

TYNESIDE AREA.

Applications are invited for the appointment of Divisional Assistant Architect, on the permanent staff of the Architect to the Board. Salary will be in accordance with Grade VIII of the A.P.T. Division of the National Scales. i.e., £685 per annum, rising by annual increments of £5 per annum to £760 per annum.

Candidates must be Members of the Royal Institute of British Architects, should be well versed in the design and construction of major buildings, and should possess a thorough knowledge of modern building practice and procedure. Previous hospital experience is desirable but not essential.

Previous hospital experience is desirable but not essential.

The person appointed will be the representative of the Board's Architect in the Tyneside area, and will be expected to reside in the district. The work will be principally administrative and will involve close liaison with the Hospital Management Committees in the Area and with "panel" architects carrying out works on behalf of the Board.

Application, stating (1) name and full address, (2) age and whether married, (3) degrees and professional qualifications, (4) experience, (5) present appointment and salary, (6) war service, (7) date available if appointed, (8) names and addresses of three referees, should be forwarded to the Secretary to the Board "Dunira," Osborne Road, Newcastle-upon-Tyne, 2, not later than Wednesday, 29th December, 1948.

Road, Newcastle-upon-Tyne, 2. not later than Wednesday, 29th December, 1948.

CORPORATION OF LONDON.
CITY SURVEYOR'S OFFICE.
Applications are invited for the following appointments. in the City Surveyor's office:
Assistant Architects And Surveyor's office:
Assistant Architects And Surveyor's office:
Assistant Architects and inclusive of consolidated bonus, according to age, qualification and experience.
Applicants, ased 25 to 35 years, should either have qualified or be about to qualify for Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of British Applications will be concerned principally with the reinstatement of war damage to a variety of types of properties. In the event of establishment to the purposes of superannuation, Such appointments will be subject to the provisions of Local Government Superannuation, and applicants will be required to pass a medical examination.

Previous experience with a Municipal body is not essential.

Applications, endorsed "Technical Staff," to be made to George Holliday, F.R.I.C.S., City Surveyor, 55-61, Moorgate, E.C.2, giving the following particulars:—Service with Armed Forces, age, qualification or intentions in connection therewith previous training, positions and experience, salary required, date when available to commence dutie

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Clerk. 1063 IES.

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Amended Advertisement.
CARDIGANSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the appointment of
PLANNING ASSISTANT, A.P.T., Grade III
(2565 × 215 – 2495), in the Development Surveys
Section of the above Department. The commencing salary within the grade will be determined according to the qualifications and experience of the successful applicant.
Applicants must have had previous planning experience, and preference will be given to those who bave passed the Intermediate examination of the Town Planning or other Technical Institution.

of the Town Fianning or other recuminal ansatution.

The successful candidate will be engaged on the
preparation of the County Development Plan, and
experience in the preparation of estate layouts for
Municipal and other housing development,
including ancillary social services connected therewith, is essential.

The appeintment is subject to the provisions of
the Local Government Superannuation Act, 1937,
the National Joint Council's Scheme of Conditions
of Service, the passing of a satisfactory medical
examination, and to one month's notice on either
side.

the National Joint Council's Scheme of Conditions of Service, the passing of a satisfactory medical examination, and to one month's notice on either side.

Applications should give details of age, whether married or single, education, technical training, qualifications, present and previous appointments and experience. Copy of one recent testimonial and name and address of two persons to whom reference may be made, should be submitted. Applications should reach the undersigned not later than 29th December, 1948.

NORMAN GREENWOOD,

Acting Clerk to the Committee.

Cambrian Chambers, Aberystwyth.

2nd December, 1948.

1072

COUNTY BOROUGH OF ROTHERHAM.

ASSISTANT ARCHITECT.

Applications are invited for the appointment of an Architectural Assistant, in the office of the Borough Engineer, at a commencing salary of £710 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, and preferably with experience in the service of a Local Authority.

The post is superannuable, and the candidate selected for appointment will be required to pass a medical examination.

The appointment will be subject to the conditions of service adopted by the Council and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

The Council will endeavour to provide the successful candidate with housing accommodation if deemed necessary.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than the 23d December, 1948.

JOHN S. WALL,

Municipal Offices, Rotherham, Yorks. 1074

JOHN S. WALL, Town Clerk. Municipal Offices, Rotherham, Yorks.

WEST SUSSEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) ASSISTANT ARCHITECT. A.P.T., V (£520£570).

2570).

(b) JUNIOR ASSISTANT ARCHITECT.
A.P.T., I (2590-2435).

(c) TEMPORARY CLERK OF WORKS. Consolidated salary at the rate of £12 per week, payable monthly. Candidates must have had considerable experience in supervision of very large

payable monthly. Candidates must have had considerable experience in supervision of very large building works.

(d) TEMPORARY CLERK OF WORKS. Consolidated salary at the rate of £10 per week, payable monthly. Candidates must have had experience in supervision of large buildings works.

Further particulars in respect of each of these appointments should be obtained from F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall. Chichester, to whom detailed applications must be submitted not later than the 22nd December. 1948.

T. C. HAYWARD,

Clerk of the County Council.

County Hall. Chichester, to whom detailed applications must be submitted not later than the 22nd December. 1948.

T. C. HAYWARD,

Clerk of the County Council.

SASISTANT.

Applications are invited for the post of additional Architectural Assistant, in the Borough Surveyor's Department. Salary Grade A.P.T., III. of the National Scale (£450, rising-to £495 per annum). Superannuation scheme. National Scheme of Conditions of Service. One month's notice on either side.

Applications, stating qualifications, experience, together with the names of three responsible persons to whom reference may be made as to ability and character, should reach me not later than 17th December, 1948. Canvassing will disqualify.

BERTRAM FINCH, Town Clerk.

Town Hall, Sale. 30th November, 1948.

COUNTY BOROUGH OF WALSALL.

EDUCATION ARCHITECT.

Applications are invited for an Education Architect on the staff of the Borough Engineer and Surveyor. Salary will be in accordance with Grade VIII of the Administrative, Professional and Technical Division of the National Joint Council's Scales of Salaries (£685—25-25-260). The commencing point in the grade will be determined according to the qualifications and experience of the applicant.

Applicants must have had extensive experience in the design and maintenance of schools and of the administrative work in connection therewith. Preference will be given to applicants who are Associates of the Royal Institute of British Architects.

The Education Architect will be responsible for carrying out such school work as may be decided upon by the Education Committee acting through its officers.

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

The Corporation are prepared to arrange for housing accommodation should the successful applicant desire it.

Applications, accompanied by copies of three recent testimonials, must be received by the Borough Engineer and Surveyor. Council House, Walsall, not later than Wednesday, December 29, 1942.

M. E. HABERSHON, Borough Henry Wednesday, December 20, 1942.

M. E. HABERSHON,
Borough Engineer and Surveyor
Walsall.
3rd December, 1948.

BOROUGH OF MANSFIELD.

Applications are invited from suitably qualified persons for the under-mentioned appointments in the Borough Engineer and Surveyor's Depart-

Applications are invited from suitably qualified persons for the under-mentioned appointments in the Borough Engineer and Surveyor's Department:—
Housing Accommodation: The Council will consider granting service tenancies if required.
(a) SENIOR ARCHITECTURAL ASSISTANT.
A.P.T., Grade IV.V (£480×£15 to £570). Commencing salary to be fixed in accordance with qualifications and experience; preference will be given to persons who have passed the Final examination R.I.B.A.
(b) GENERAL ARCHITECTURAL ASSISTANT, A.P.T., Grade I (£390×£15 to £435). Preference will be given to persons who have passed the Intermediate R.I.B.A.
(c) QUANTITY SURVEYING ASSISTANT, A.P.T., Grade III (£450×£15 to £435). Commencing salary to be fixed in accordance with qualifications and experience; preference will be given to persons who have passed the Final examination of the R.I.C.S.

These appointments are subject to the following conditions:—
(1) National Joint Council's Scheme of Salaries and Conditions of Service.
(2) Superannuation Act, 1937, for which the successful candidate will be required to pass a medical examination.
(3) Residence within the Borough.
(4) Termination by either party at any time on giving one month's notice.

Applications, stating age, training, qualifications, sepreince, together with copies of not more than three recent testimonals, should be sent to the undersigned endorsed with the name of the appointment to be received, not later than Monday, 3rd Jannary, 1949.

Canvassing, directly or indirectly, will disqualify.

A. C. SHEPHERD,

Town Clerk.

A. C. SHEPHERD, Town Clerk.

Carr Bank, Mansfield. 4th December, 1948. 1071

Ath December, 1948.

BOROUGH OF LEYTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of TWO GENERAL ARCHITECTURAL ASSISTANTS, in the Department of the Borough Engineer and Surveyor.

The salary will be £995 per annum, rising by two annual increments of £20 and one of £25, to a maximum of £660 per annum (Grade VI of the National Joint Council's Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services), plus £30 per annum weighting.

Candidates should possess the recognized architectural qualifications (preferably A.R.I.B.A.) and have had good Municipal experience.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidates satisfying the Medical Officer as to their fitness, to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the general conditions laid down from time to time by the Council, including membership of a trade union.

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose in their application whether they are related to any member or senior officer of the Council.

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials are to be delivered to the Borough Engineer and Surveyor not later than the 31st December, 1948, in a sealed envelope endorsed "General Architectural Assistants."

HIS MAJESTY'S COLONIAL SERVICE.

THE COLONIAL ENGINEERING SERVICE.
Vacancies exist in the Public Works Department, Cyprus, for a temporary TOWN PLANNING OFFICER (Reference 27281/21).
Candidates should be Associates of the Royal Institute of British Architects and possess town planning qualifications. They should have had practical experience in the field of town planning. Candidates must be British subjects, physically fit and between the ages of 30 to 46.

The appointment is temporary in the first instance and on agreement for three years. Before the expiration of the period of engagement consideration will be given to the possibility of conversion to the permanent and pensionable establishment. Salary will be in the scale 2800-21,320 per annum; point of entry depending on age, experience, and approved war service. An expatriation allowance of 15 per cent. of salary is payable. A temporary cost-of-living allowance which is liable to variations at any time is also payable. This amounts to £35 for a single man or £66 l4s. 6d. for a married man, with additions for the first three children. Government quarters may be available at a low rent. Free passages to Cyprus for the officer, his wife and family, are provided on appointment and on satisfactory completion of the agreement. The duties of the post will be to establish a Government Town Planning Office; to advise in the preparation of town planning legislation, and to prepare and carry out any town planning schemes that may be approved.

Intending candidates should write before 30th January, 1949, to the Director of Recruitment (Colonial Service), 2. Sanctuary Buildings, Great Smith Street, S.W.I., stating age, professional qualifications, brief details of experience and reference number of the appointment.

WELSH REGIONAL HOSPITAL BOARD.

Applications are invited for the post of PRIN-CIPAL ASSISTANT ARCHITECT on the Board's Headquarters Staff.

Salary £290 × £25-£50 per annum. Applications, 1947 and 1948, and will be terminable by one month's notice on either

tion.

Applications, stating age, experience and qualifications, together with the names of two referees, should be addressed to the undersigned so as to reach him not later than December 21.

R. E. REESE, Secretary.

R. E. REESE,
Secretary.
Cathays Park, Cardiff.
THE URBAN DISTRICT COUNCIL OF
KRYNSHAM.
ASSISTANT.
Applications are invited for the appointment of
Architectural Assistant in the Engineer and Surveyor's Department at a salary in accordance with Accidence of the National Scales of
Applicants must have had wide experience in the design and preparation of housing schemes and other architectural work and possess a suitable technical qualification.
The appointment will be subject to one month's notice on either side, to the Local Government Superannation Act, 1937, and to the submission of a satisfactory medical report.
Applications, stating age, qualifications and particulars of experience, accompanied by two recent testimonials, should reach the undersigned not later than first post on Monday, December 20th, 1948.

GEO. R. ASHTON,
Clerk of the Council.
Keynsham, Bristol.

December 20th, 1948.

GEO. R. ASHTON.
Clerk of the Council.
Keynsham, Bristol.
4th December, 1948.

CITY OF NOTTINGHAM EDUCATION
COMMITTEE.
COLLEGE OF ARTS AND CRAFTS.
Principal: ALFRED H. RODWAY. A.R.C.A.
Applications are invited from Men and Women
for appointments as STUDIO INSTRUCTORS in
the School of Architecture of the College, which
is recognized for exemption from the R.I.B.A.
Inter. and Final examinations, and in the Department of Town and Country Planning from the
Final examination of the Town Planning Institute.
Duties to commence on 1st January, 1949. or
earliest date possible thereafter. Candidates
should hold recognized qualifications in Architecture, preferably the degree or diploma of a
recognized School. The Nottingham College of
Art and Crafts is recognized by the Ministry of
Education as a Central College. Salary:
Burnham Scales. 1948, with additional allowances,
where appropriate, for (1) training; (ii) graduation; (iii) full-time professional experience after
age 21; (iv) previous recognized teaching service;
and (v) service in H.M. Forces or the recognized
from the Principal. College of Art and Crafts,
Waverley Street. Nottingham, to whom they
should be returned, with copies of two testimonials, within fourteen days of the publication
of this advertisement.

F. STEPHENSON,
Director of Education.

F. STEPHENSON,
Director of Education.
Education Office, South Parade, Nottingham. 1073

CITY OF BRADFORD.

CITY ENGINEER AND SURVEYOR'S

DEPARTMENT.

APPOINTMENT OF TWO SENIOR TOWN
PLANNING ASSISTANTS. ONE GRADE A.P.T.,

VI—ONE GRADE A.P.T., V.

Applications are invited for the positions of
Senior Town Planning Assistants in the City
Engineer and Surveyor's Department; one
appointment in accordance with Grade A.P.T., V.

of the National Scales of Salaries (£520—£750
per annum), and one appointment in accordance
with Grade A.F.T., VI (£956—£660 per annum).

Candidates should be Associates of the R.I.B.A.,
and hold a University Degree or Diploma in
Architecture, or the final examination of a recognised School of Architecture with experience in
Town Planning. The final examination of one
of the following bodies would be an advantage,
Inst.G.E., Inst.Mun.E., Surveyor's Institution.

This appointment is subject to the Local
Government Superannuation Act, 1937, and the
successful candidate will be required to page a
medical examination.

Canvassing will disqualify, and any applicant
who is related to a member of, or a Senior
Officer of, the Council, must disclose the fact in
his applications, stating age, present and previous
appointments, qualifications and experience,
accompanied by copies of three recent testimonials, should reach the undersigned not later
than December 31, 1948.

W. H. LEATHEM.

Town Hall, Bradford.

WEDNESFIELD URBAN DISTRICT COUNCIL. APPOINTMENT OF QUANTITY SURVEYOR. Applications are invited for the appointment of a Quantity Surveyor at a salary of £500 per

annum.
Candidates should be Associates of the Royal Institute of Chartered Surveyors (Quantities Section) and be experienced in the preparation of Bills of Quantities, Estimates, Specifications, Measuring for Interim and Final Certificates and settling of Final Accounts.

Applications stating age, training, experience and qualifications, together with copies of three recent testimonials, should be addressed to the undersigned and should be received within four-teen days of the publication of this advertisement.

ment.
Housing accommodation will be considered if necessary, and accommodation may be available at an early date.

P WRIGHT

8. R. WRIGHT, Clerk of the Council.

Council Offices, High Street, Wednesfield, Staffs.

PETERLEE DEVELOPMENT CORPORATION.
ARCHITECT PLANNER'S DEPARTMENT.
APPOINTMENT OF JUNIOR ADMINISTRATIVE OFFICER.
Applications are invited for the above post, at a starting salary of between 2400 and 2550 per annum, according to ability.
Duties will include acting as personal assistance in the administration of the department, minutes of conferences, correspondence and returns. office equipment and supervision of files, mapp, library, etc.

Some architectural expansions and the start of the conferences of conferences of conferences of conferences.

ne architectural experience, and ability to shorthand and drive a car will be an ad-

The appointment is subject to one month's notice either way.
Superannuation is optional. Lodging allowance is payable in certain circumstances.
Applications, stating age, qualifications and experience, should be addressed to the Architect Planner, Peterlee Development Corporation. Saotton Hall, Old Shotton, County Durham, so as to arrive not later than 1st January, 1949. 1082

COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.
Applications are invited for the following
established posts:—
(a) SENIOR ASSISTANT, PLANNING (A.P.T.,
Grade VII, £635×£25-£710).
Should have had considerable experience in redevelopment of war-damaged and obsolescent
areas; examination of Development applications;
preparation of evidence for Public Inquiries,
and preferably be A.R.I.B.A., A.M.T.P.I.
(b) ARCHITECTURAL ASSISTANT (A.P.T.,
Grade I, £390×£15-£435)
Must be good draughtsman, with sound knowledge of construction and at least two years'
office experience.

ledge of construction and at least two years office experience.

(c) ADMINISTRATIVE ASSISTANT (Male) (A.P.T., Grade I, 2390×£15—£435).

Should have had considerable experience in Architect's office or Local Government Department, and be competent shorthand/typist.

Plus London allowance.

Details, together with application forms, which must be returned not later than 1st January, 1949, may be obtained from Borough Architect and Planning Officer, 70, West Ham Lane, £.15. 1081

COUNTY BOROUGH OF DARLINGTON.
BOROUGH ARCHITECTS DEPARTMENT.
Applications are invited for the permanent appointment of TWO ASSISTANT ARCHITECTS.
Salary, Grade V (£530-£570).
The Corporation hope to be able to make available self-contained flats for successful married candidates in need of housing.
These appointments offer scope for good experience on all types of Municipal work, including Housing and Education, and preference will be given to candidates with such experience and with recognized qualifications.
Applications, stating age, qualifications, present appointment and salary, and previous experience, accompanied by copies of recent testimonials and names and addresses of two referees, should be delivered to E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than Monday, 20th December, 1948.

Architectural Appointments Vacant lines or under, 5s.; each additional line, 1s. 6d.

Architectural Appointments Vacant 4 lines or under, 5s.; each additional line, 1s. 6d.

An expanding Middle East Oil Company Aurgently requires a SENIOR ARCHITECTURAL ASSISTANT, for the London office, to be engaged in the preparation of sketch plans, working drawings and details for domestic, commercial, industrial, social and civic buildings usual to the development of Municipal Estate; at least 5 years' practical experience, if school trained A.R.I.B.A., or 15 years' experience design and working drawings with architects of standing; quick accurate draughtsmanship, with sound knowledge of construction, essential; age 30-45; salary at least \$600 per annum, but according to age and experience. Write giving brief details for application form, and quoting LO 118, to 80x "R.P.," (10 J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2.

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# WATCO **Wood Floor Preserver**

## makes Wood Floors last longer

Watco Wood Floor Preserver is a new non-slip, heavy duty plastic floor finish, which seals the pores, strengthens the fibres, and acts as a binding medium that solidifies and increases the resistance of the wood to heat, dampness, traffic, acids, and all surface influences.

## strengthens the Floor checks Expansion and Contraction

Watco Wood Floor Preserver keys well with the wood and becomes part of the floor itself, while its high resistance to dampness and temperature variations checks expansion and contraction of wood blocks and parquet, and the consequent opening of joints. One treatment only is required and will last as long as the floor. The floor is ready for use in a few hours.

#### saves Expense and Labour

Softwoods treated with Watco Wood Floor Preserver will last as long as the more expensive hardwoods. Regular sweeping will produce a good appearance without polishing, although Watco-treated floors may be washed or polished in the usual way if desired.

Explanatory Price List post free on request



#### OTHER WATCO PRODUCTS

WATCO CONCRETE HARDENER Renders concrete floors permanently 100 % non-dusting. WATCO TIMBER GUARD
For protection of building timbers against Wood Borers.
"GRANALA" Cornent waterproofer and hardener for mass concrete and cement rendering. VATCO CONCRETE FLOOR PAINT
An economical and effective floor finish in a variety of colours.
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An effective stain preventive medium.

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To the H.1 door

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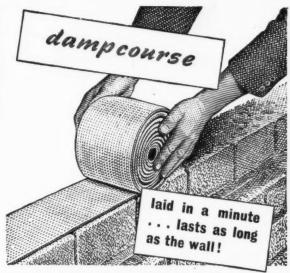


# A lock on escapist moods

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