The Architects' JOURNAL for April 8, 19

THE

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tandard 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

TECHNICAL SECTION

Information Sheets Information Centre Current Technique Questions and Answers Prices The Industry

PHYSICAL PLANNING SUPPLEMENT CURRENT BUILDINGS HOUSING STATISTICS Architectural Appointments

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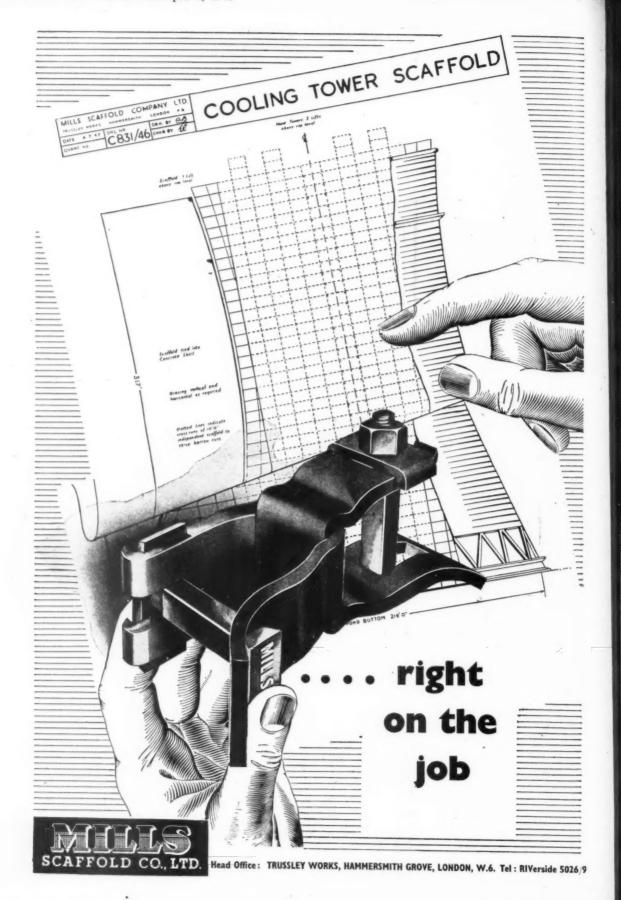
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 \star A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to H one week, I to Z the next. In all cases where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

Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 3158 IAAS Incorporated for the second se Whitehall 4577 ICE ICW Chancery 6258 TEE Temple Bar 7676 IES Abbey 5215 Sloane 8606 IGE IHVE Victoria 0146/7 Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.I. Euston 2450 IIBD Institute of Landscape Architects. 12, Gower Street, W.C.1. Institute of Builders. 48, Bedford Square, W.C.1. Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. ILA Museum 1783 Museum 7197 IOR IR Monarch 7391 Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29 Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264 IRA ISE LIDC London Master Builders' Association. 47, Bedford Square, W.C.1. MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. W LMBA Museum 3891 Park 7678 MARS MOA Whitehall 3400 Ministry of Agriculture and Fisheries. 55, whitehall, S.W.1. Whitehall 3400 Ministry of Education. Belgrave Square, S.W.1. Sloane 4522 Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 4300 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 MOE MOH MOLNS MOS MOT MOTCP Whitehall 8411 MOW Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611 NAMMC Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1. Abbey 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 5277/8 National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161 National Council of Building Material Producers. 2, Caxton Street, S.W.1.Abbey5111 National Federation of Building Trades Employers. 82, New Cavendish Street, W1 NAS NBR NCBMP NFBTE W.1. Langham 4041 National Federation of Building Trades Operatives, Federal House, 20A, Cedars Road, Clapham, S.W.4. 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. NFBTO NFHS NHBRC Langham 4041 NHTPC National Housing and Town Planning Council. 41, Russell Square, W.C.1. Museum 1264 National Physical Laboratory. Head Office, Teddington. Molesey 1380 National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. Whitehall 2415 NPL NRIAD NSAS National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359 National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.I. Whitehall 0211/2 Political and Economic Planning. 16, Queen Anne's Gate, S.W.I. Whitehall 7245 Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611 NT PEP PWB Whitehall 9936 Reinforced Concrete Association 94, Petty France, S.W.1. Whitehall 9 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. RCA RIAS Edinburgh 20396 Royal Institute of British Architects. 66, Portland Place, W.1. Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1. Whitehall 5322 Royal Society. Burlington House, Piccadilly, W.1. Royal Society. Burlington House, Piccadilly, W.1. Royal Society of Arts. 6, John Adam Street, W.C.2. Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. School Furniture Manufacturers' Association. 13. New Sequare, Lincoln's Inn. RIBA RICS RFAC RS RSA RSI RIB SBPM SCR SFMA School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery 5313 Structural Insulation Association. 14, Moorgate, London, E.C.2. Central 4444 Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1. Metropolitan 8344 SIA SIA Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3. Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. Holborn 2646 SNTPC SPAB Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2 TCPA Temple Bar 5006 Timber Development Association. 75, Cannon Street, E.C.4. Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 81, Cannon Street, E.C.4. War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. TDA 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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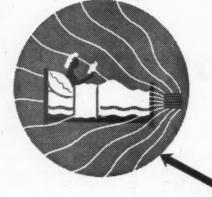


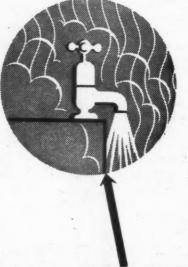
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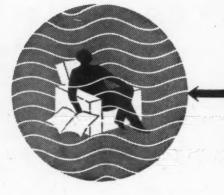
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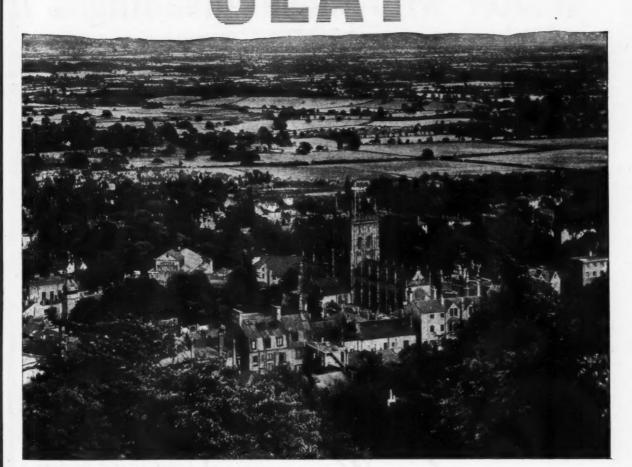


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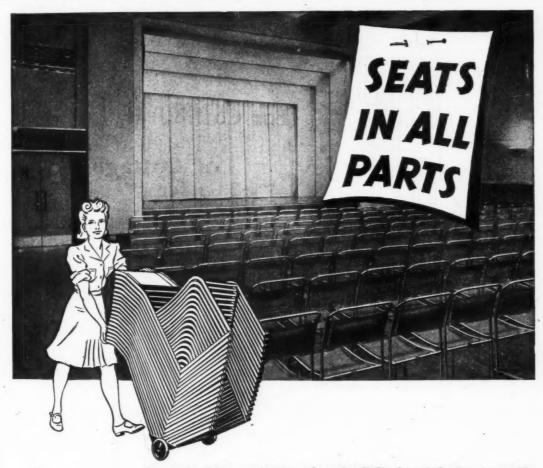
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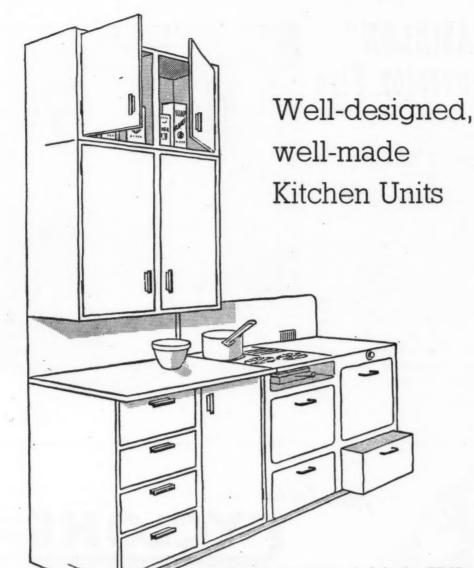
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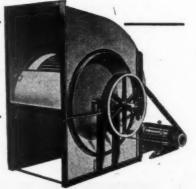
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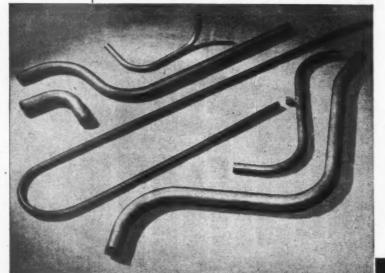
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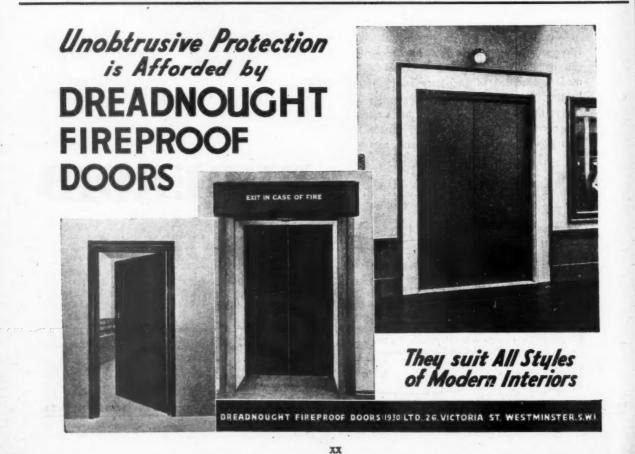


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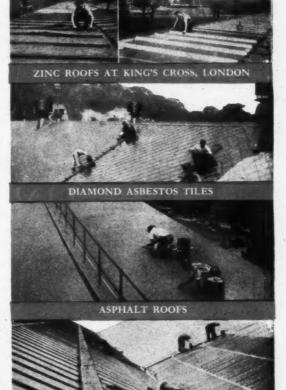
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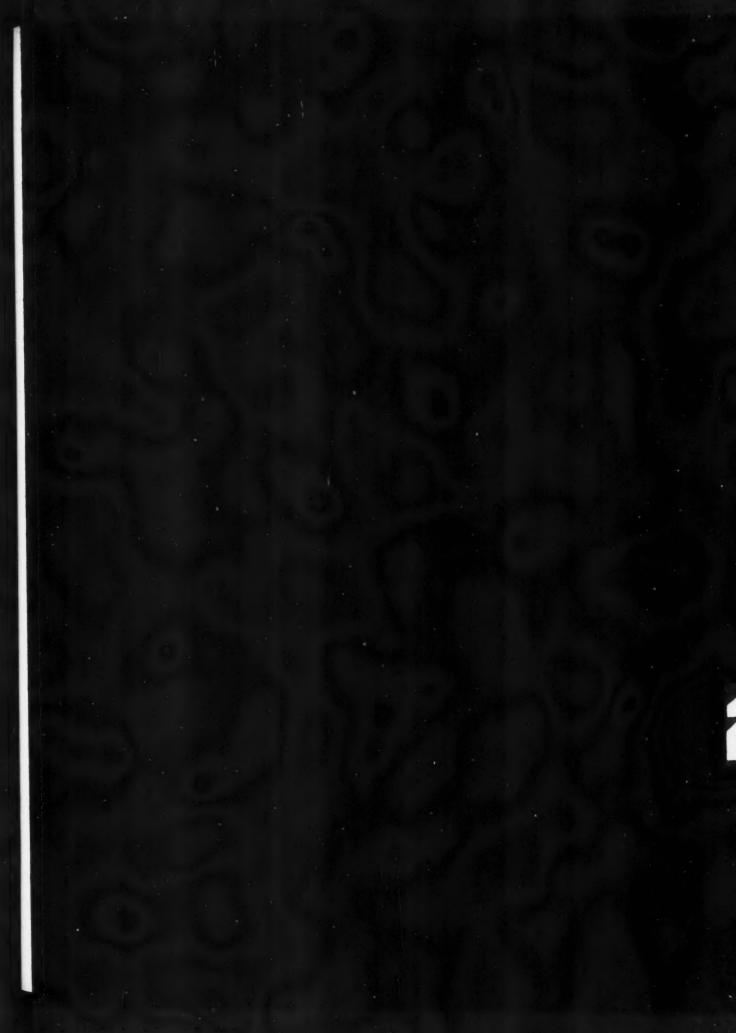


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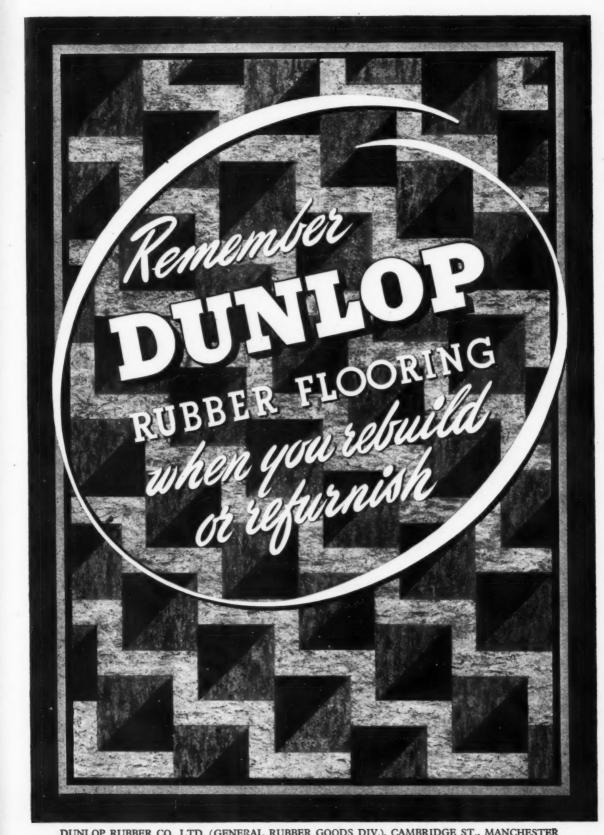
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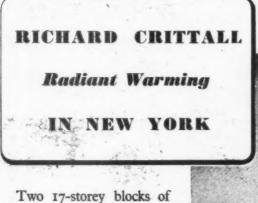
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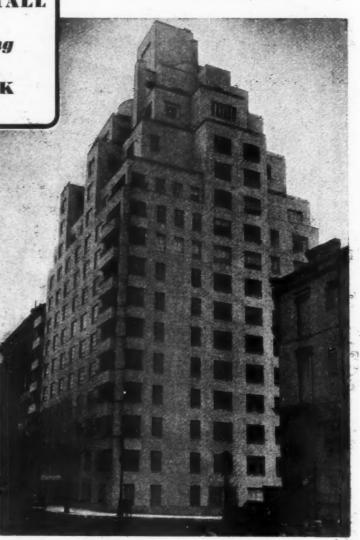
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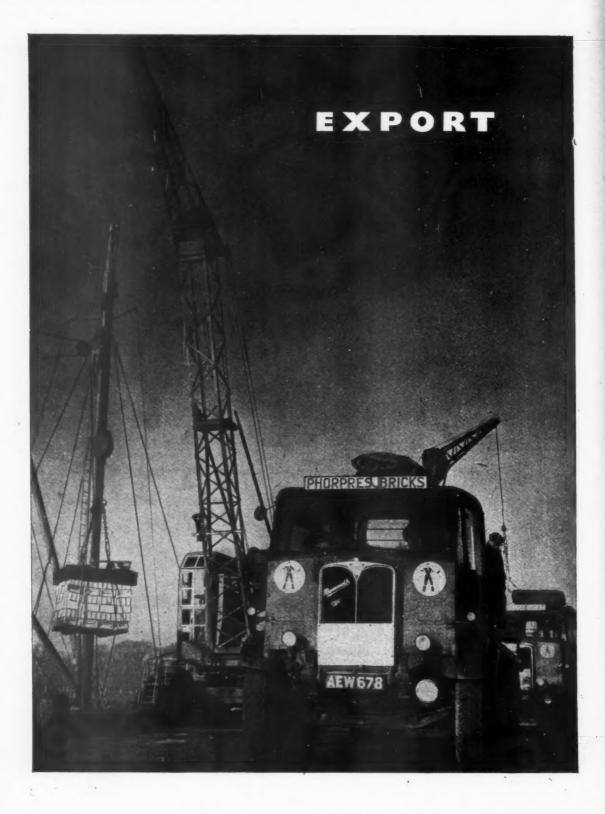
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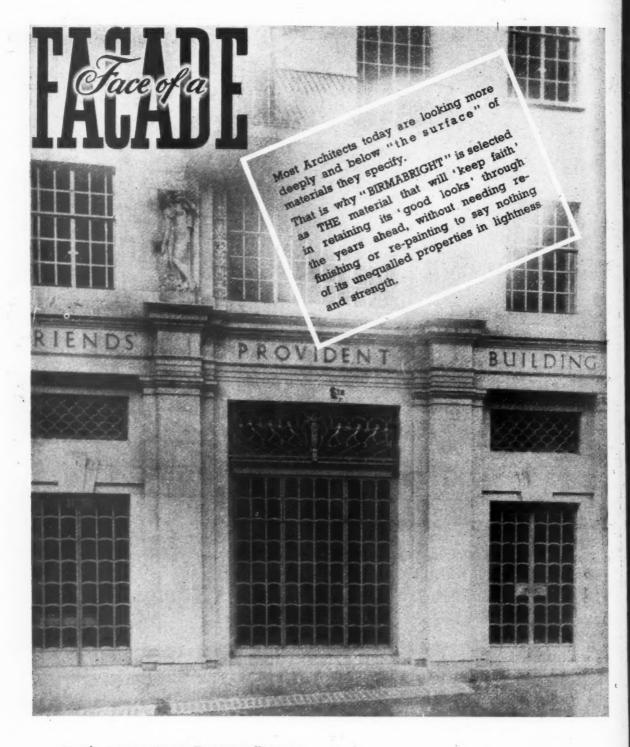
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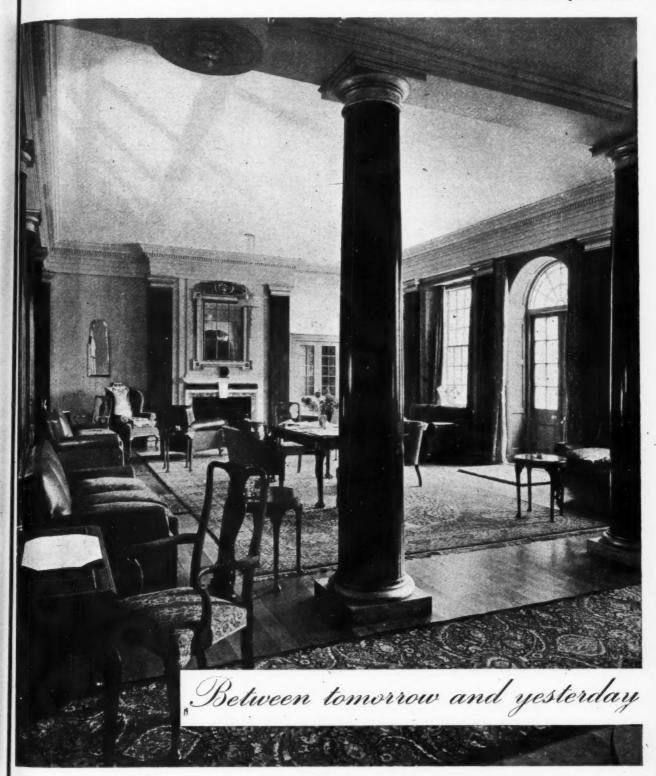
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Ind The DSI Apr Mus In common with every other periodical, this JOURNAL is rationed to a small part of its ne-war consumption of paper. Circulation is therefore temporarily restricted but would-be abscribers are advised to have their names put on the waiting-list. Their names will then



be added to the subscription list as soon as possible. Subscription rates : by post in the U.K. or abroad, £ 1 155. od. per annum. Single copies 9d.; post free 11d. Special numbers are included in subscription; single copies 15. 6d.: past free. 15. od. Back copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each ; carriage 1s. extra.

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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 as given in the glossary of abbreviations on the front cover.

A BERDEEN. Enterprise Travels Ex-hibition. At the Art Galieries, Aber-deen. (Sponsor, Scottish Committee of CID.) UNTIL APRIL 10

BIRMINGHAM. Demonstration Builders' Plant and Power Hand Tools On the housing scheme at the junction of Sandy Lane and Coventry Road, adjoining Bordesley Railway Station, Birmingham. (Sponsors, Midland Regional Joint Production Committee for the Building Industry in conjunction with MOW.) 11 a.m. to 5 p.m. APRIL 8

CARDIFF. Design Week. (Sponsor, APRIL 12-17

DUNDEE. P. O. Reece. Present Develop-ments in Timber Construction. At the Dundee College of Art. (Spon-sors, TDA and Dundee Institute of Archi-APRIL 13 tects.) 2.30 p.m.

EDINBURGH. Timber Brains Trust. At the Merchants Hall, Hanover Street, Edinburgh. (Sponsor, TDA.) APRIL 14

E. H. B. Bolton. *Timber.* (Sponsors, TDA and Clerk of Works and Foremen's Association of Scotland.) 7 p.m. APRIL 15

GLASGOW. Scientific Engineering and Fuel Efficiency Exhibition. At Kelvin Hall, Glasgow. UNTIL APRIL 17

P. O. Reece. Timber as a Material of Construction, with Some Aspects of Stress Grading and Jointing of Timbers. At the Scottish Building Centre, 426, Sauchiehall Street, Glasgow, C.2. (Sponsors, TDA and RIAS.) 5.30 p.m. APRIL 15

P. O. Reece. Timber. At the Building Centre, Sauchiehall Street, Glasgow. (Spon-sor, Glasgow Institute of Architects.) 5.30 APRIL 18 p.m.

HOVE. RSI Hove Sessional Meeting. F. Dransfield. Sanitary Survey—A Century's Survey of Housing and Environ-mental Circumstances. Afternoon visit to the King Alfred Baths. (Sponsor, RSI.) APRIL 10

LONDON. Exhibition: The Industrial Revolution in Art, 1760-1851. Arranged by Dr. F. D. Klingender in collaboration with the Newcomen Society. At Heal's Mansard Gallery, 196, Tottenham Court Road, W.1. UNTIL APRIL 13

Industrial Design Refresher Courses-The Designer's Use of Colours. 1.30 p.m. DSIR Fuel Research Station, Greenwich. April 8. Morning: Victoria and Albert Museum and Library. 2 p.m. Mary

Delane. Designing for the Home. 5.30 p.m. John Pinkard. Solid Fuel Appliances and their Surroundings. April 9. Morn-ing: British Museum. 2.30 p.m. James Laver. Style in our Time. 5.30 p.m. Mrs. Ing. Drinish and the construction of the consumer style in our Time. 5.30 p.m. Mrs. Darcy Braddell. Interpreting the Consumer to the Manufacturer. April 10. Morning: Discussion Group. 12.30 p.m. Lunch. The lectures will take place at 45, Cadogan Construction Structure S. Sugare S. W.3. (Sponsors, Sugare S. W.3.) Gardens, Sloane Square, S.W.3. (Sponsors, CIAD and CID.) APRIL 8-10

Village Planning Exhibition. Exhibition of designs submitted to the Central Land Owners' Association Village Planning Com-petition. At the RICS, 12, Great George Street, S.W.1. (Sponsor, Central Land-owners' Association.) UNTIL APRIL 16

P. O. Recce. The Stress Grading of Timber. At the Park Lane Hotel. (Spon-or, Building Industries Luncheon Club.) Timber. 12.30 for 1 p.m. APRIL 8

H. S. Horsman. District Heating. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. APRIL 14

R. P. Woods. New Decorative Woods. At MOW, Union House, E.C.1. (Sponsor, TDA.) 3 p.m. April 15

Thomas Ritchie. The Sanitation of Build-ings. Bossom Gift Lecture. At the Architec-tural Theatre, University College, Gower Street, W.C.1. (Sponsor, the Chadwick Irust.) 2.30 p.m. APRIL 15

Dr. N. Pevsner. German Art of the Goethe Period. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. APRIL 27 and MAY 4

Inn Crafts Exhibition. Interior decoration At the RBA Galleries, 6½, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' Society.) APRIL 27-MAY 13

MANCHESTER. MANCHESTER. Building Trades Exhi-bition. In the City Hall, Deansgate, Manchester. (Sponsor, Provincial Exhibi-Manchester. (Sponsor, Prov tions, Ltd.) 11 a.m. to 9 p.m. UNTIL APRIL 17

STOKE-ON-TRENT. Demonstration of Builders' Plant and Power Hand Tools. On the housing scheme at Riverside Road, Trentvale, Stoke-on-Trent. (Sponsors, Midland Regional Joint Production Committee for the Building Industry, in conjunction with MOW.) 11 a.m. to 5 p.m.

APRIL 13-15

WOLVERHAMPTON. Centenary In-W dustrial Exhibition, (Sponsor, Borough of Wolverhampton.) APRIL 17-24

Ν	E	W	S

THURSDAY,		Apr	il 8, 1	1948
No. 2774			VOL.	
News				319
The New	Architec	ture	of	
Transport				320
This Week's	Leading A	rticle		321
Astragal's No	otes and To	opics		322
Letters from	Readers			323
U.S. Design	Competiti	on		324
In Parliamen				324
Information	Sheets :			
Resisting 1.B20 Projecti Working	d Asbestos I g Doors Orthogra on : 1 in. s g Drawings	phic cale	page	face 324
Some Rece Architect' London I the Britis scribed by	s Office Midland	of Regio	the the n of De-	325
Societies and				332
House at Designed I Roiser and	Minchir by Ellery	ham	oton.	334
Technical Se	ection :			
	on Centre			335
The Indus				337

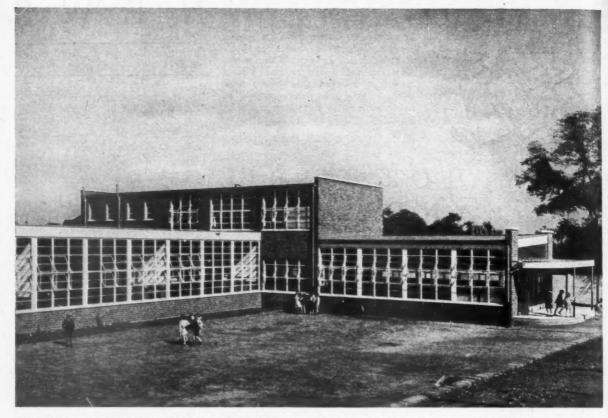
Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

★ 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.

VILLAGE PLANNING is the subject of an exhibition at the Royal Institution of Chartered Surveyors in Great George Street, Westminster. The exhibits consist of the prize-winning and commended designs in a competition held last year, the results of which were pub-lished in the JOURNAL for December 18. A large-scale model of the first prize design. submitted by Messrs. Godman, Kay and James, architects, of Horsham, has now been added. The competition, which was sponsored by the Central Land-owners' Association, had the pur-pose of encouraging seemliness and intelligent planning when new houses are built in existing villages. Competitors were asked to take any one of four villages, God-stone (Surrey), Shipton-under-Wychwood (Oxon.), Condover (Salop), and Helmsley (Yorks.), and plan extensions to them, indi-cating at the same time their ideas for the The exhibits consist of the prize-winning and cating at the same time their ideas for the design of the new houses proposed.



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THE PICTURESQUE. [From The Regency Style, by Donald Pilcher (B. T. Batsford Ltd.).] The chief result of these attempts to discover exactly what was Picturesque seem to have been the discovery that there was very little that was not . Thus Payne Knight, when he embarks on a catalogue of recommended subjects, finds it necessary to add copiously to those accepted by the eighteenth century. In his Analytical Enquiry into The Principles of Taste the "warriors of Salvator Rosa, the apostles of Raphael and the bacchanalians of Poussin" march in ragged ranks beside "the boors of Ostake, the peasants of Gainsborough, and the shepherds of Bergen": and in the same Picturesque procession "The pampered warhorse with luxuriant mane and flowing tail, which we so justly admire in the pictures of Wovermans" prances beside its contemporary counterpart, "the shaggy worn-out hack or cart horse of Morland." Of greater moment for the landscape garden, is the planting of "the giant oak of Ruysdael, or the full grown pine or ilex of Claude" in the same scene as the "stumpy decayed Pollard of Rubens or Rembrandt." The Regency enormously increased the scope of the Picturesque, but the Italian school admired by the eighteenth century remained the point of departure. The well-known clause in Turner's will, asking that his pictures should be hung beside Claude's, shows how even so revolutionary a painter continued to judge his work by their standards.

*** THE PETERLEE DEVELOP-MENT CORPORATION. has now been set up by MOTCP to establish a NEW TOWN AT EASINGTON in Co. Durham. The name Peterlee is a tribute to a local miners' leader of that name. The corporation has already appointed Mr. B. Lubetkin as architect planner, and pre-liminary discussions have been held on the site, which will present considerable opportunities once its difficulties have been overcome. It is close to the sea, and consists of rolling country, fringed with scattered mining settlements and bordered on the by a cleft known as the Dene, a south natural amenity that should be a great asset. The difficulty of the site chiefly arises from the coal workings that run beneath a large part of it, but proper collaboration between the architects and engineers should enable Peterlee not only to solve its own problems but to make a useful contribution to general knowledge about building on undermined areas.

The new town's proposed population is 30,000. Except for the Hartlepools, some miles away, local development consists only of small mining communities offering their inhabitants little in the way of community life and nothing in the way of a truly urban environment. When it is completed Peterlee will therefore serve as a focus-commercial, cultural, educational an Peterlee will therefore serve as a focus-commercial, cultural, educational and social—for an area inhabited by at least 100,000 people that at present lacks a focus-of any sort. The town centre will conse-quently need to be large and well provided with community buildings. Social life in the locality will be further revolutionized by the industries that the planners of the the locality will be further revolutionized by the industries that the planners of the new town will be able to introduce into it. For the first time there will be employment for women, which is traditionally non-existent in coal-mining areas. New indus-tries can also help to overcome, for the benefit of the men as well as the women, the disadvantage of dependence on a single means of livelihood means of livelihood.

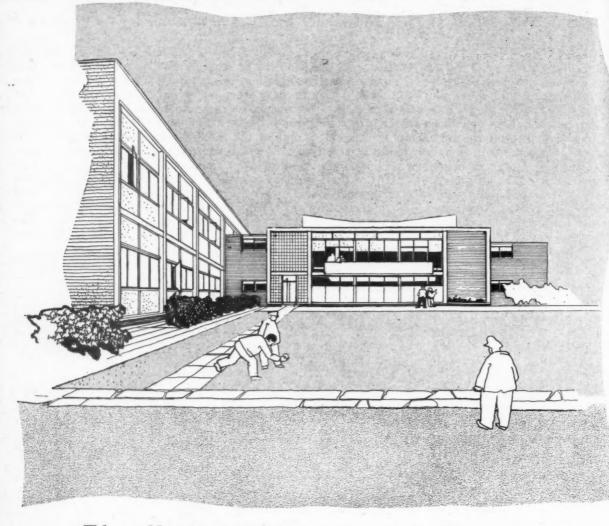
The members of the Corporation are:-Mrs. Monica Felton, PH.D. (Chairman). Writer and lecturer; former member of the Writer and lecturer; former member of the Hertfordshire County Council; formerly Chairman of LCC Supplies Committee. Served in Ministry of Supply, 1941-42; Clerk, House of Commons, 1942-43; Governor of the London School of Economics; served as a member of the New Towns Committee; Vice-Chairman of Stevenage Development Corporation. Councillor Harry Lee. Head-master of Seaham Modern Secondary School. Past President of the Headmasters Association and now the Treasurer. Four

times Chairman of Seaham Urban District Council and now Chairman of the Finance Committee. Mr. Edward Allen. Reader in Economics at the University of Durham. Mrs. J. W. Gray. Has spent most of her life in the mining area. Has been active as a member of the Women's Voluntary Services, in the organisation of the Women's Land Army, and in jother social work. Mr. J. R. Mackay. Chartered Accountant living in Newcastle. Partner in the firm of Peat, Marwick, Mitchell and Co.; which has times Chairman of Seaham Urban District living in Newcastle. Partner in the line has Peat, Marwick, Mitchell and Co.; which has branches in Newcastle, Middlesbrough, and Councillor Harry O'Neill. Darlington. Councillor Harry O'Neill. Member of the Easington Rural District Council (by whom his name was suggested) and Chairman of the Building Plans Committee. Secretary, Easington Branch of the Durham Miners Association. Alderman E. Robinson. For 18 years a member of

the Durham County Council (by whom his the Durham County Council (by whom his name was suggested), and now Vice-Chairman of the County Council's Planning Committee. Member of the Stanley Urban District Council. Lt.-Col. Sir Myers Wayman, O.B.E. Five times Mayor of Sunderland; Chairman of the Sunderland Industrial Development Board, 1938-43; Chairman of Myers Wayman Ltd. and various other companies. Vice-Chairman Sunderland Working Men's Building Society; Chairman Sunderland Licensing Planning Chairman Sunderland Licensing Planning Committee, Sunderland Disablement Advisory Committee, North Regional Savings Ad-visory Committee, Sunderland Savings Com-mittee, and Sunderland Magistrates Executive Committee, etc. Mrs. Felton is resign-ing her membership of the Stevenage Corporation to undertake her new appointment.



The setting for the Roosevelt Memorial in Grosvenor Square as it appears now that most of the scaffolding surrounding the Memorial has been removed. The Portland stone pedestal is ready to receive Sir William Reid Dick's statue of President Roosevelt, which will be lifted into position in readiness for the unveiling by Mrs. Roosevelt on April 12, which will be attended by the King and Queen. A stone-paved broad walk has been constructed to lead to the memorial which is flanked by ornamental pools and fountains, so that the whole square has been virtually transformed into a memorial garden. The architect for the design and layout is Mr. B. W. L. Gallanaugh.



The New Architecture of Transport

The nationalisation of the railways vests in the Government what has been perhaps unjustly termed "a very poor bag of assets." Nevertheless there are, in all the regions of British Railways, tremendous programmes of reconstruction and new buildings awaiting attention. The work of the railway architect is very varied and ranges from great termini complete with hotels to ticket office

At their BI-ANNUAL GENERAL MEETING held recently in Bournemouth, the WESTERN CHAPTER OF THE HAMP-SHIRE AND ISLE OF WIGHT ARCHITECTURAL ASSOCI-ATION elected officers and committee to take office on July 1 next for the ensuing two years. Mr. W.G. Seaton was elected chairman. Mr. John Dacombe was re-elected hon. secretary and treasurer. Members elected to the executive committee were Messrs. A.E. Geens, R. A. Phillips, John Burton, G. Sutcliffe, F. Greenen and A. Avenall. In view of the growth of the Chapter, it was decided to form a Social Committee, Mrs. J. H. Fowler and Messrs. F. W. Easto, D. A. Cull and A. Avenall being elected to serve. Quantity surveyor members of the Chapter will be represented by Mr. H. H. Chinchen on the executive committee, and by Mr. W. Lane on the social committee. Reviewing activities of the past year, the present chairman, Mr. R. A. Phillips felt good progress had been made, and that this was reflected in the growth of membership —now 96, consisting of 55 Fellows, 21 Associates and 20 Students.

THE BUILDING TRADES EXHIBITION this year at Manchester is the largest ever staged outside London. Over 100 leading firms in the building industry are exhibiting in the City Hall, Deansgate, Manchester, at the first post-war Builders' Exhibition. It is the 17th of a series organized by Provincial Exhibitions, Limited. The opening ceremony was per-

windows and notice boards. On pages 325 to 331 of this issue, Dr. J. L. Martin contributes the first of two articles on some recent work of the architect's office of what is now the London Midland Region of the British Railways. The perspective drawing above is of a small railwayman's hostel designed in that office, plans of which are given on page 325.

formed at 11 a.m. on Tuesday, April 6, by the Minister of Works the Rt. Hon. Alderman Charles W. Key, M.P., with the Lord Mayor of Manchester, Miss Mary Kingsmill Jones, O.B.E. J.P., in the chair. Features of the Exhibition are a Wates precast house specially built and fully furnished, and a large display by the Manchester Education Committee Building Trades School showing different sections of Craft Training with students actually at work. Other big displays are being shown by the Manchester Society of Architects, Manchester Echool of Architecture, Timber Development Association, and Ministry of Works. Canada is represented with a magnificent show on two large stands, including a wide range of Canadian timbers. Architects and builders interested in the exhibits should apply for complementary tickets to Provincial Exhibitions Limited, City Hall, Deansgate, Manchester. The Exhibition will remain open from 11 a.m. to 9 p.m. until Saturday, April 17. Public admission, Is, 6d.

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The number of PERMANENT THE HOUSES COMPLETED in Britain during FEBRUARY This was an was 16,134. increase of 733 on January. Although the total for February is the Although the total for February is the second highest since the end of the war, it is 1,662 behind the total for December, 1947. These figures are disclosed in the monthly housing progress reports presented as a White Paper (Cmd. 7365/6) by the Minister of Health and the Secretary of State for Scotland. The number of temporary houses com-pleted in February was 2,447, compared with 2016 in January, making a total of 18,581 houses in the month, compared with 17,417 in-January.

in January.

PRELIMINARY CONVERSA-TIONS have taken place between the RIBA and MOTCP in regard to the 1951 Exhibition. The Ministry has decided to recommend that there should be a separate organization de-voted to Architecture. Town Planning and Building Research. An Advisory Council is being set up, and at the request of the Ministry the Council of the RIBA have appointed Mr. H. V. Lobb, Chairman of the RIBA Exhibitions Sub-Committee, as architect representative.

NEWS IN BRIEF

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The Underground Concourse. Gants Hill Tube Station was opened to pas-senger use on Sunday, March 4. One hundred and fifty feet long, 50 feet wide, and 20 feet high, it is the largest of its kind to have been constructed in Britain.

The village of Torphichen West Lothian, together with the country residence of Craigpark and several adjoining farms, will be offered for sale by auction at Stirling on April 22.

Bristol University Appeal Fund has been closed at a total of £254,000. The appeal was launched in 1946 to cover the cost of an extension to the University and halls of residence.

A Railway Bridge at Snaresbrook used by Central Line trains until midnight on March 13, was then demolished and a new bridge, weighing 400 tons, 80 ft. long, constructed on girders alongside the track, was hauled into position over roller bearings. The job was completed in 1 hour 12 minutes.

A Development Corporation for Letchworth will not be decided upon for some time owing to present difficulties in carrying out the new plans. This reply was made by Mr. Silkin to a deputation from Letchworth Urban District Council.

Developing Helmsley Competition The first prize of E100 was won by Mr. Ian Burke, of Dundee. Mr. Burke proposes tetrace houses grouped round village greens on a 16 acre site on the edge of Helmsley. The competition was organized by the Central Landowners' Association.

The Governors of Nelson Hospital Kingston Road, London, S.W., have appointed Messrs. Lanchester and Lodge, of 10, Woburn Square, W.C.1, as the archi-tects of the hospital's new wing.

EXHIBITION 1951

THE formation of a Commission to take charge of the arrangements for the centenary of the Great Exhibition of 1851 has recently been announced. The three

bodies forming the Commission, the Arts Council, the Council of Industrial Design, and the Central Office of Information have good records in the encouragement of the Arts, and the appointment of Gerald Barry as Managing-Director for the exhibition is an earnest of the Government's intention to make it a worthy and significant occasion.

The gloomy economic prospect for the next three years has led the authorities to decide that the exhibition shall not be an international one, that no permanent buildings shall be built, that the scope shall be limited to the cultural life of these islands and that there shall be no central exhibition site comparable to Hyde Park in 1851. The various activities will instead be spread throughout the country.

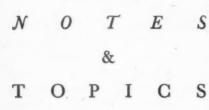
It is probably wise to abandon the attempt to emulate the Victorians of the days of Albert the Good, for though there are plentiful signs of a coming architectural and cultural renaissance, it has not yet achieved a sense of confidence, and the same secure social background is now lacking. None the less, the various displays and activities that will comprise the exhibition have to be housed, and it is satisfactory that the RIBA are already being consulted about some of the architectural aspects.

While there will be sympathy for the Government's cautious refusal to plan anything too ambitious, it will be sad indeed if considerations of economy are allowed to defeat what should be the principal objects of the exhibition, a triumphant affirmation of Great Britain's cultural achievements and continued creative ability. People's faith in our ability to contribute to the progress of civilization cannot be established by hole-and-corner timidity; to translate this into planning terms, without some adequate focus the whole exhibition will languish. The Victoria and Albert Museum, or any other existing building will not serve the purpose, quite apart from the fact that it is undesirable to deny to the public the normal use of such buildings for a considerable time. A central site must be found and prepared to act as a focus. The buildings need only be temporary, but they should be frankly so and not pitiful lath and plaster travesties of more permanent structures. There are many precedents worth examining, such as the pre-war exhibition in Norway where tubular scaffolding and oiled silk were the principal building materials. Perhaps some of the bombed sites in the City could be put temporarily under canvas.

While most of the building, moreover, could be of this temporary nature, there is an overwhelming argument in favour of at least one building of a permanent kind. London has today no concert hall worthy of the name. Let there be a new music centre to form part of the future development of the South Bank of the Thames. The cost in terms of labour and materials would not be overwhelming. The architect could be selected by competition and the aim should be to achieve a building as significant as was Paxton's Crystal Palace.



The Architects' Journal 9, 11 and 13, Queen Anne's Gate, Westeninster, S.W.1 Phone : Whitehall 0611



FINE ART SECRETARY

Scholarship, the gift of diplomacy, administrative ability; these are three qualities essential for making a success of the job of Secretary of the Royal Fine Art Commission, and they are not easily found combined in one man. But Godfrey Samuel possesses them all, and his appointment to the Secretaryship can therefore be counted an exceptionally good one.

The Royal Fine Art Commission is a great potential power for good which has not always been able to exercise its power fully. It has recently been strengthened by some first - rate additions to its membership, and now, with Samuel as Secretary, much can be expected of it. It is an admirable tradition, founded by the first Secretary, the late Chalton Bradshaw, that this post should always be held by an architect. It means that in at least one official context the term The Mistress Art still applies.

COX'S PAPER

A full house gathered last week at the AA to hear Anthony Cox's paper on *Public and Private Architecture*, and was rewarded with an admirably clear and balanced survey of this

topical problem. Those present who expected fireworks—or at least a few squibs—were disappointed, for Cox refused to be either provoked or provoking, and his determination to be fair to both sides set the note for the ensuing discussion.

In a cheerful speech Mr. Loweth (County Architect for Kent) explained why he liked calling in private practitioners to help him, and Mr. Marshall reminded us that three hundred years ago barbers were also doctors, but they were only barbers now (*i.e.*, watch those engineers). Best speech of the evening—Mr. Aslin's. Conclusion: There are good and bad offices, private and public, and the larger the office the harder it is for it to be a good one.

MAJOR ATHOE STEPS OUT

Twenty-three-year-old IAAS has jumped ahead of centenarian AA by setting up the nucleus of a country architectural school. A twelve-acre estate at Whyteleafe, in the Caterham Valley, has been bought and is being developed as a cultural and recreational centre under the name of Wren Park. (Remember, Wren was an official architect and a surveyor.) Some



Gilbert Scott's church of St. Nicholas, Hamburg, as it appears to-day. See Astragal's note.

departments of IAAS, including the library, are already working there, and as soon as funds and conditions permit it is hoped to equip the place as a school of architecture and surveying —in the country, but within half an hour of London "down the living rail."

It has long been argued that architectural education lacks balance because all the schools are placed in urban areas, and it is probably true that town-taught architects get little opportunity to study or be interested in country problems. Whether the Wren project is far enough out—whether, in fact, students will be able to see the ground for the castles—to act as a real rural school remains to be seen, and whether it will aim at RIBA recognition has not yet been disclosed.

FOOTLIGHTS OF THE IRON CURTAIN

Reproduced below is a photograph sent to me recently by a German architect. It shows the church of St. Nicholas, Hamburg, one of the leastknown but most successful works of Sir Gilbert Scott, the winner, in 1842, of an international competition for its design. Unlike most cathedral architects, Sir Giles lived to see the completion of this building, which, though bomb-damaged, still triumphantly dominates the ruined city.

Also from Germany (via *Bauwelt*) comes news of an interesting alteration job at Braunschweig, where a large, four-storied, bunker-type shelter is being converted into a hotel. Windows are being blasted out of the 40-in. thick concrete walls after preliminary compressed-air drilling (50 borings per window), and with the ultimate addition of a glass-enclosed staircase tower you will hardly be able to tell it from an early work of Mendelsohn's.

Reading of this reminds me that the fate of the Citadel, at the corner of Horse Guards Parade, is still unsettled. If we can't afford to remove it, why not make it into a hotel for American travellers (no longer, we are told, to be called tourists)? You might not be able to drive up to the reception desk in your car (as you can, I believe, in Mexico City's new Government-sponsored caravanserai), but travellers could A bun process Astrag been b

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GOOD

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A bunker-type shelter at Braunschweig in process of conversion into a hotel. See Astragal's note. The long windows have been blasted out of the 40 in. thick concrete.

see, across the Parade, fellow-travellers at work behind various windows, and with all the ducts and throbbing dynamos and smell of rubber-carpeted passages it would be almost like being on a ship, and you can't say fairer than that. And if you don't like the smell of rubber, read on.

GOOD GRACIOUS LIVING

Smart hostesses-known to the ad.men as "perfectionists in the art of gracious living "-are faced with a new must." It is nothing less than perfumed rubber flooring, for which, I read, a demand has arisen in the Far East and South America. What a chain of events is covered by that simple phrase " a demand has arisen." That first petulant pout from Lotuseyed "Sugar" . . . then "Daddy," white telephone in furry-backed hand, scouring "the better stores" for rubber flooring which doesn't smell of rubber (" only the best is good enough for Sugar") . . . the long meetings in smoke-filled conference rooms, and at last the first scented roll oozing down the production line. Perhaps most exciting of all-the new ad.-campaign. None of this "floors-which-are-hardwearing-resilient-practical" stuff. It will, I hope, be " floors which are as mischievous as a side-long glance, as languorous as a Caribbean lovesong " . . . " floors which bring to you, at first sniff, the quickening thud of

island tom-toms, the lyrical surge of Pacific surf, the poignancy of a hibiscus blossom behind a shapely ear." Congratulations to all concerned -to "Sugar," to "Daddy," and to Messrs. Peradin, Ltd., of Bath, who now make scented floors in 22 colours and six perfumes (alas, for export only). So all the perfumes of a rubber floor will not for the present sweeten our little land

DEATH OF "QUEEN ANNE'S"

Last Wednesday the administration of £70,000,000 officially changed hands. A little crowd gathered outside the JOURNAL'S offices in front of Queen Anne's statue and gave three cheers to commemorate the death of **Oueen** Anne's Bounty.

Two hundred and forty-four years ago the Queen, through Parliament, created this fund of between £16,000 and £17,000 a year to care for poor clergy and to maintain the fabric of churches and church property. It has considerably grown, and has now been joined to the £140,000,000 of the Ecclesiastical Commissioners to form the funds of the Church Commissioners for England, the new body that is to be responsible for the Church's financial affairs.

ASTRAGAL



Mr. E. J. Hare, last secretary of the Queen Anne's Bounty foundation placing a wreath at the feet of the statue of Queen Anne in Queen Anne's Gate, at a farewell ceremony last week. See Astragal's note.

LETTERS

O. 7. Masterman, B.Eng., A.M.I.C.E., A.M.I.Struct.E.

Concrete Floors and Roofs in Housing

In HOUSING SIR.—Shortage of timber has put a serious brake on house building, and in spite of the many substitutions which have been devised to meet the restriction which has had to be placed on the amount of timber that may be used in a house, it is still vitally neces-sary to seek for substitutes. In a traditional house with a timber and boarded floor and a tiled roof, there is, in round figures, $\frac{1}{2}$ standard of timber in the floor and another $\frac{1}{2}$ standard of timber in the floor and another $\frac{1}{2}$ standard in the roof, so that these two components are clearly the first to be tackled for economies. In fact if a floor surface other than timber is accepted it is possible to save the whole of this standard of timber by using concrete floors and flat roofs; and without serious, if any, increase in cost. But to obtain this result it is necessary to take advantage of every possible economy

But to obtain this result it is necessary to take advantage of every possible economy in the design of the concrete components; to take full advantage, for instance, of the lighter loads and higher stresses permitted in the latest draft Codes to keep the dead weight to an absolute minimum; and to obtain if possible steel with a guaranteed yield point so that a working stress of 20,000 can be adopted in designing the reinforcement. reinforcement.

reinforcement. Unfortunately it is at this point that another shortage of an important material becomes apparent. Steel is now even scarcer for building than timber, and a normal dense concrete hollow floor or roof requires about $\frac{1}{2}$ ton of steel for reinforcement. So the position reached is that by substituting concrete floors and roofs for traditional con-struction, 1 standard of timber has been saved, but at the expense of $\frac{1}{2}$ ton of steel. It is vital to reduce this steel figure, and saved, but at the expense of $\frac{1}{2}$ ton of steel. It is vital to reduce this steel figure, and fortunately there are two possible ways of doing so. One is to reduce the deadweight of the floor by using lightweight aggregates in place of the normal dense ones, and the other is by prestressing. With lightweight aggregates such as foamed slag, the weight of reinforcement in the floor or the read aggregates such as foamed stag, the weight of reinforcement in the floor or the roof can be got down to about 1/6 ton; and by prestressing to as little as 1 cwt. With the present shortage of steel and timber, which may not be eased for years, the importance of exploiting these two possibilities to the full needs no emphasis. There is already canacity for a correiderable

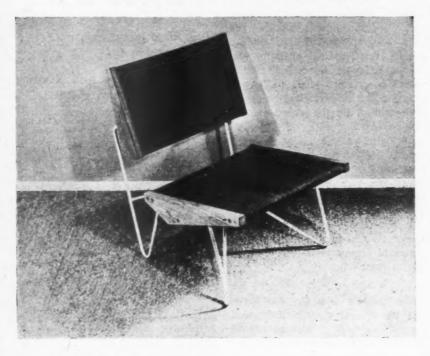
full needs no emphasis. There is already capacity for a considerable output of foamed slag, and the Government is encouraging production of other suitable lightweight materials such as expanded clay and shales, aerated concretes, and, for non-reinforced work, clinker. These light materials can reduce the weight of concrete by one-third, while retaining sufficient strength for floor and roof slabs in houses; it may be possible to obtain najlability as well. well.

Steps are also being taken to ensure that there is sufficient production of the special high tensile wire needed for prestressing; and a survey has been made of the available floor coursing when they they have been like the

and a survey has been made of the available floor coverings other than boarding suitable for use with concrete floors. The Ministry of Works has in hand a comprehensive programme of full-scale development tests covering the practical aspect of all these matters, and results of these tests will be published as they become available available.

The object of this brief note is to draw attention to the importance of this question of the economical design of concrete floors and roofs for houses—of the need in par-ticular to reduce their weight so as to save

U.S. DESIGN COMPETITION







In order to show the consumer public what the market offers in good designs for furniture, fabrics, light fixtures and wall papers, the American Institute of Decorators are holding annual international competitions. The results of the 1947 competition have recently been announced, and these photographs show three of the six prize-winning designs. Judged by distin-guished members of the architectural, educational and retailing professions, of whom the architects were Max Abramovitz, Deputy Director of Planning for the United Nations headquarters, Carl Koch, Samuel Marx, and Chairman of the Committee on Awards, Theodor Muller, the entries are confined to designs which are in production and available for purchase on the current consumer market. Top: a chair made of wood, wire and cord, price \$39.50. Centre : a floor lamp with grey enamel base and plastic-coated parchment shade, price \$27.50. Bottom : printed fabric, price \$6.50.

steel—in the hope of encouraging infividuals, firms, and associations of firms in the industry to direct their energies to this end by trying out likely new material and techniques and by drawing attention to new problems created by them and requiring investigation, as well as to connected matters requiring forward planning.

O. J. MASTERMAN Chief Scientific Adviser's Division, Ministry of Works.

In Parliament

During the last week of the session, quetions were put to the Minister of Works in the Commons regarding property owned by the Communist Party and by that party newspaper, *The Daily Worker*. When Air Commodore A. V. Harvey (Com--Macclesfield) asked what was the amount of the licence granted to *The Daily Works*.

When Air Commodore A. V. Harvey (Com-Macclesfield) asked what was the amount of the licence granted to *The Daily Works* on the construction of its new building Farringdon Street, London, the Work Minister, Mr. C. W. Key, referred him to a previous Parliamentary answer on the subject.

Air Commodore Harvey: "Whatever the amount, how does the Minister justify sud a large expenditure at this time, when the workers, and others, are so badly in need of houses?"

workers, and others, are so badly in new of houses? " Mr. Key pointed out that the work we originally started and a licence granted, with the support of the Ministry of Information in December, 1945. Work subsequently required by the district surveyor resulted in some increase in the expenditure involved. Mr. William Gallacher (Communist-Wea Fife): "Can the Minister give the sum toul of the property owned by the Tory and Liberal Press?" Mr. Key did not reply, and the Speaker said that had nothing to do with the question they were now discussing. Then Sir Waldron Smithers (Con.-Orpington) asked for details of the building materials supplied to the Communist office at the corner of King Street and Bedfond Street, Strand, during the last two years; and in view of the acute demand for housing material, why priority was given to any et these supplies. Mr. Key told him tha licences were granted mainly for essential repairs and fire protection required by the L.C.C. Priority was granted for the supply of certain materials in order that the work should not come to a stop. Whereupon Sir Waldron demanded: "In view of recem developments, will the Government show that they mean real business about the Communist menace, requisition this property and hand it over to business firms?" But again the Speaker intervened to point out that they were now straying from the point at itsue.

Cheers from both sides of the House greeted an announcement by Mr. Key that a licence for the repair of Ken Wood House at a cost of £1,500 had been granted to the Iveagh Trustees. Mr. Eric Fletcher (Lab.-Islington East), voicing the approval of members, said the announcement would giv very great satisfaction to a large number of Londoners who took a considerable interea in this matter.

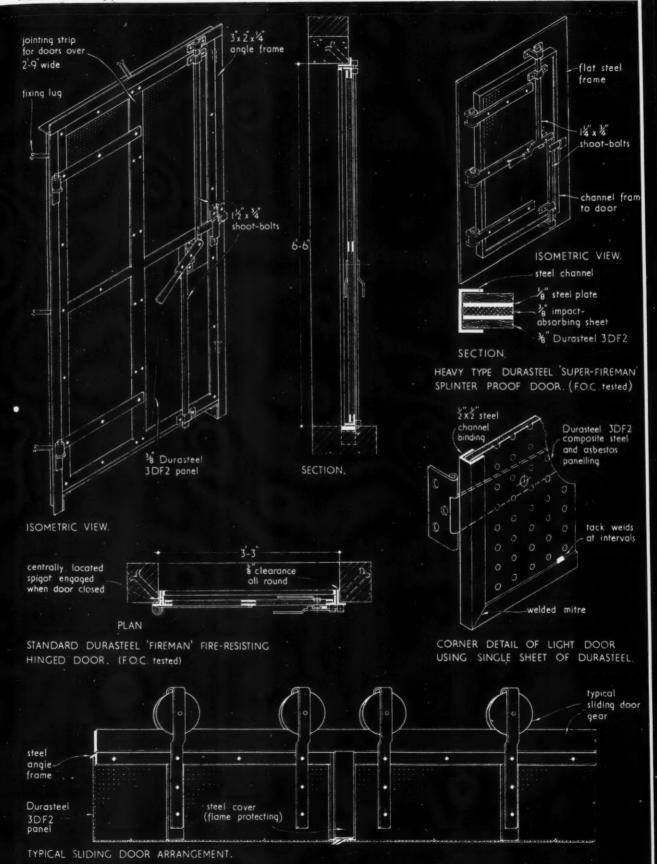
The following day Mrs. Leah Mannin (Lab.—Epping) had a suggestion to make to the Minister of Town and Country Planning. Mr. Lewis Silkin. In view of the admiration and interest excited abroad, particularly in the United States, by the Master Plan for the new town of Harlow, why not complete that new town in advance of the other new towns so that town and country planning committees and other interested persons from abroad might visit it, she asked. Mr. Silki was gratified to note the interest arouse overseas by the Harlow plan, but said he could not on that account agree that Harlow should be completed in advance of other projects.







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·DURASTEEL· 3DF2 STEEL AND ASBESTOS FIRE-RESISTING DOORS.

36.D1 ·DURASTEEL · 3DF2 STEEL AND ASBESTOS FIRE-RESISTING DOORS

This Sheet describes fire-resisting doors made from Durasteel 3DF2 sheeting. Sheet 15.R1 gives details of the material and shows typical applications to partitions and ceilings.

Standard 'Fireman' Fire-Resisting Hinged Door

Details of this door are given in the drawings at the top left-hand side of this Sheet.

Size : The door is designed for an opening 6 ft. 6 in. high and up to 3 ft. 3 in. wide.

Construction : The outer frame at jambs and head is of 3 in. by 2 in. by 1 in. mild steel angle with lugs at intervals for fixing to brickwork. The sill bar is of 3 in. by ½ in. mild steel flat. Rebates at jambs and head are of 1 in. by 1 in. and 1 in. by 1 in., respectively. The door is built up from a single thickness $\frac{3}{4}$ in. Durasteel 3DF2 panel but where the width exceeds 2 ft. 9 in. two sheets may be long jointed under a cover strip as shown, and the whole bolted to a framework of 2 in. by 2 in. by 1 in. angle. Two strap hinges are provided and the locking mechanism is triple acting, consisting of two shoot-bolts, which engage in the frame at top and bottom, and a centre catch engaging in an open clip fixed at mid-height to the frame angle. Lever operating handles are fixed both sides of the door.

Finish: The door can be supplied finished hot-dip galvanised or black steel primed one coat.

Fire test: A test carried out by the Fire Offices' Committee resulted in the door being classified as fulfilling the conditions for Grade C (2 hours) of B.S. 476.

Heavy Type 'Super Fireman' Splinter and Fire-Resisting Door

Details of this door are given in the drawings at the top right-hand side of this Sheet. Developed during the war to meet air raid conditions, this door is intended for use in power stations, chemical works and similar situations where danger of fire is accompanied by risk of blast and/or splinters from explosion. Size: To suit individual requirements (except as limited by F.O.C. regulations).

The outer frame top and side Construction : members are of 4 in. by 1 in. and the bottom member of 3 in. by 1 in. flat steel, with 3 in. by 11 in. by 1 in. angle welded to it and forming a rebate of 1 in. for the door on all sides except the bottom. The door is faced with Durasteel panelling and has a core of mild steel plates and impact absorbing sheets, the whole being contained in a continuous cold rolled steel channel with welded mitred corners. Three strap hinges are provided and the locking mechanism is triple acting, consisting of two shoot-bolts which engage in the frame at top and bottom and a centre catch engaging in an open clip fixed at mid-height to the outer frame. Lever operating handles are fixed both sides of the door.

Finish: The door can be supplied hot-dip galvanised or black steel primed one coat.

Fire test: Tested by Fire Offices' Committee and classified as fulfilling conditions for Grade C (2 hours) of B.S.476.

Sliding and Light Type Doors

The other drawings show a typical sliding door arrangement and give details of a light type door consisting of a single sheet of $\frac{3}{8}$ in. Durasteel with an all-round binding of steel channel.

Fixing

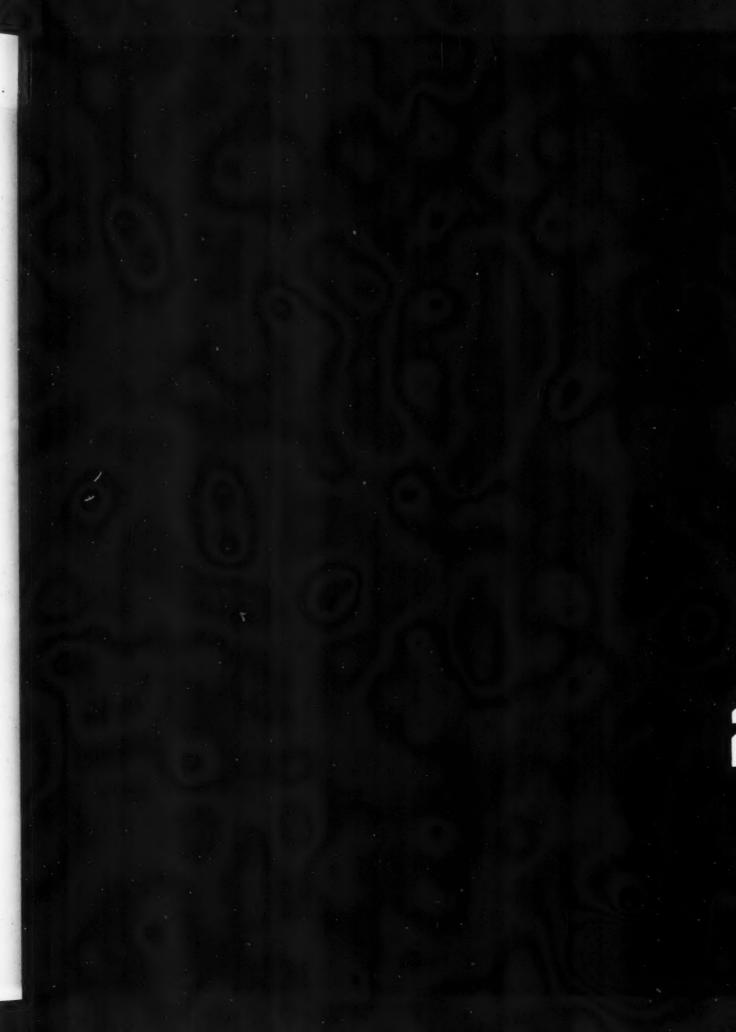
Frame or hinge lugs (of long fish-tail type) should be securely anchored and any gaps between wall surfaces and the door should be made good.

Compiled from information supplied by :

Durasteel Roofs Ltd.

Address : Oldfield Lane, Greenford, Middlesex. Telephone : Waxlow 1051 (Private Branch Exchange). Telegrams : Endurafire, Phone, London.

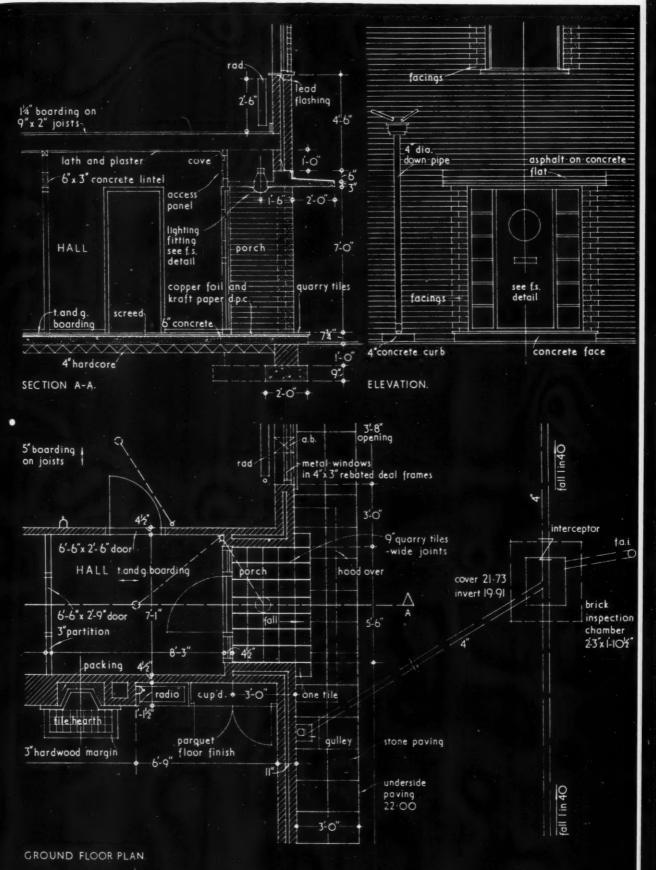
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DRAUGHTSMANSHIP ORTHOGRAPHIC PROJECTION

The Architects' Journal Library of Information Sheets 56. Editor: Cotterell Butler, A.R.I.B.A.



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1.B20 ORTHOGRAPHIC PROJECTION: 1 IN. SCALE WORKING DRAWINGS

This Sheet is one of a group recommending suitable standards for office working drawings to various scales and deals with $\frac{1}{4}$ in. scale (1/48th full size). Subsequent Sheets deal with $\frac{1}{4}$ in. scale, $\frac{1}{2}$ in., full size, etc.

One purpose of this group of Sheets is to assist the practising architect in standardizing work in his drawing office; another is to suggest to the student a reasonable standard of presentation for practical working drawings.

Working Drawings Generally

All working drawings should be prepared as a complement to, and evolved closely with, the specification. Duplication of information should not be adopted except where special emphasis of a confusing detail is necessary.

1 in. Scale

The illustrations do not comprise a completed drawing, but are parts of the plan, section, and elevation of a typical small domestic house. Opinions on the value of $\frac{1}{4}$ in. scale vary, but in recent years this scale has become increasingly popular. It is particularly suitable for small buildings since the resultant drawing is of a useful size for handling and it is often an advantage to prepare $\frac{1}{4}$ in. scale and $\frac{1}{2}$ in. details. $\frac{1}{4}$ in. scale drawings do not, however, avoid the necessity for ancillary full size, quarter full size and similar details.

Working drawings are intended to be used on the site : they must therefore be bold and simple and the lettering should be reasonably large, remembering that a splash of cement slurry can easily make a fussy overdetailed drawing entirely unreadable.

B.S. Drawing Office Practice

These drawings have been prepared bearing in mind the recommendations of B.S. 1192 : 1944, Architectural and Building Drawing Office Practice. Their recommendations have not, however, been accepted without reserve ; in particular the method of dimensioning with the numbers outside the dimension line has not been adopted.

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

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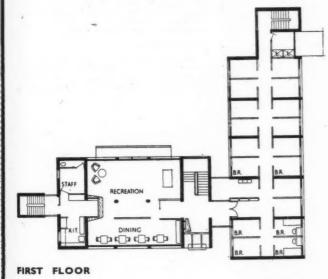
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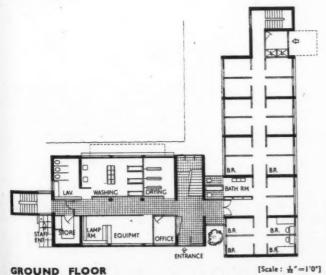
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THE ARCHITECTS' JOURNAL for April 8, 1948 325

Right, a sketch of the entrance to a small nural station. Although local materials have been used, the plan follows a structural grid for unit buildings that the architect's office has worked out, and utilises component parts of their unit structures. Bottom, sketch plans of a small railwaymen's hostel. A drawing of this hostel forms this week's frontispiece.

SOME RECENT WORK THE ARCHITECT'S OFFICE OF





OFFICE OF THE LONDON MIDLAND REGION OF THE **BRITISH RAILWAYS**

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Y

DESCRIBED BY J. L. MARTIN

The work of an architect's office within a railway undertaking is of interest for two reasons. First, because of its wide and varied range, and second, because of the specialized studies which may be developed by a well-qualified staff.

The possible range of work is, perhaps, a little difficult to appreciate. It is, of course, obvious that such an office will deal with stations—and perhaps hotels. In addition to these buildings of a public character, however, there is also the accommodation required by the railway community, including offices, staff hostels, canteens and housing. Then there are the special buildings required from time to time, such as schools or medical centres. To this can be added a variety of work which is, perhaps, best described as industrial design, and which deals with the equipment used in all these buildings. The architects whose work is illustrated here have also recently assisted in designing the interior fittings for certain types of rolling stock. From this list of work it will be seen at once that there are certain types of building which are not peculiar to the railway, for example, hotels, canteens and housing. In these cases there is in existence a certain amount of planning data, and there are generally accepted standards on which architects can base their work. In dealing with office buildings, for instance, standards of desirable area, of air space, of lighting, and even sound transmission, are readily available. But in the case of the more specialised railway buildings, there are no generally accepted measures of this kind. The architects, if they are to give the fullest service, must work in close collaboration with the Operating and Commercial Departments of the railway in a constant effort to establish standards. The problem is by no means easy. For example, in stations it must involve an attempt to assess the requirements of fluctuating numbers of people on a factual basis. It must attempt to give some measure to these numbers so that buildings can be designed to fit the requirements in the most efficient and economical manner. It becomes, in fact, a highly specialized study.

a highly specialized study. If it is to be efficient, the railway architect's office must consequently be organized and staffed to deal with a wide range of work, and also with specialised investigation. The following notes and illustrations are intended to give some picture of these two aspects of railway work as they have been developed in recent years in the office originating from the L.M.S., which is now the office of the Architect to the London Midland Region—William H. Hamlyn, F.R.I.B.A. It is perhaps worth mentioning that some of the studies described in these notes have a close parallel in the work of the architects to the Dutch railways and the SNCF in France. The original Birmingham station. The railways have always demanded the development of new techniques as new problems have arisen.



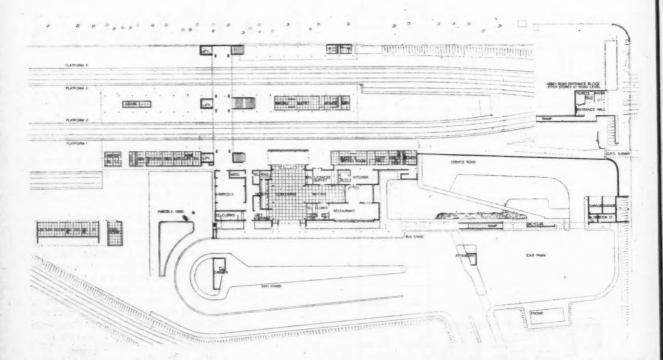
(1) CANTEEN AND HOSTEL WORK

The buildings required for the feeding and housing of railway workers have formed an important section of the work passing through the office. The supply of meals has been dealt with principally by the erection of a large number of canteens, and in the past few years the office has been responsible for well over a hundred of these buildings. Although this work has been carried out under extreme restriction of materials and labour, the programme as a whole has provided the opportunity for an experiment in the organisation of a large scale and scattered building programme, and has laid down the lines of future development for work of this kind. The methods used in preliminary research, the collection of site data, the development of standards, the preparation of drawings and the controlof production were described in detail in the RIBA Journal of September, 1944, and need not be repeated here. Accommodation for railwaymen away

Accommodation for railwaymen away from home now generally takes the form of a staff hostel. The L.M.S. Railway has for many years supported a policy of new hostel building, and the standards of new hostel building, and the standards of accommodation to be provided have been in existence for some time. The plan of such buildings must provide bathing, washing, and drying room facilities, recreation and dining rooms, and a separate bedroom for each railwayman. As the railwaymen may arrive or leave the hostel at all hours, according to their particular turns of duy, the number of men using the recreational facilities at any one time is not likely to be great. On the other hand, it is essential to cause the least possible disturbance to sleeping men. The principal development of planning and constructional method in order to treat adequately the problems of sound transmission, ventilation, etc. The most recent plans illustrate the isolation of noise, by means of quiet zones, and show the opportunities for standardization of copstructional methods in the dormitory wing (see plans on the preceding page).

(2) STATIONS

From the point of view of the general public by far the most noticeable examples of architecture on the railways are, of course, the stations. These divide themselves up

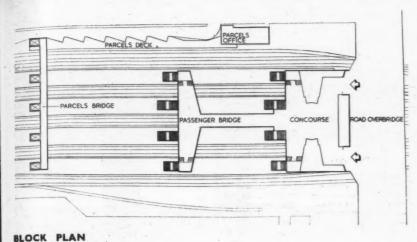


MAIN LINE STATION. The plan separates the public from the working parts of the station, so that pedestrian and parcels traffic follow different routes. The bridge giving access to platforms is divided down the centre to separate the traffic.

BRITISH RAILWAYS (LONDON MIDLAND

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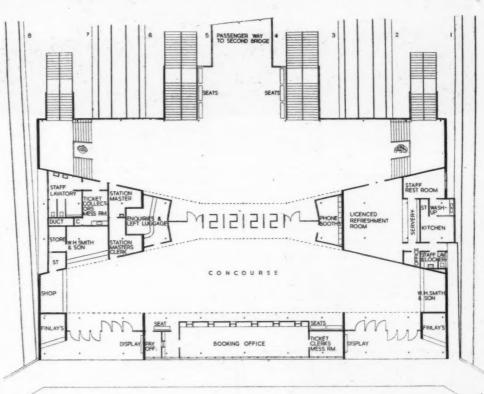
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SUBURBAN STATION. Left, block plan showing secondary stairways and access bridge and clear separation of passengers and parcels traffic. Below, the circulation area of the same station, which has to handle heavy residential traffic. The disposition of passenger bridges, widths of staircases and room areas have been determined by a preliminary study of passenger movements.



CIRCULATION AREA OF A SUBURBAN STATION

[Scale: #"=1'0"]

into a number of types—terminal, junction, suburban, rural, etc. Most of the present stations were built many years ago when requirements were quite different from those requirements were quite different from those of the present day. Their structural con-dition varies considerably, and they give rise to three main types of work. In the first place, there are the larger stations which must be rebuilt to cope with present-day requirements. Secondly, there is a steady programme of rebuilding required in con-nection with smaller stations which either fail to meet present-day needs, or which have become obsolete structures. Thirdly, there is a problem of dealing with the large number of stations where the structure is reasonably sound, but where modernisation and re-equipment is desirable.

(a) Larger Stations Dealing first with the larger stations; the problem here is almost always a special one, and the solution has to be worked out in relation to special site conditions. The basic problem is, of course, one of circula-tion, and most of the study which has, so

for, been carried out has concentrated on this problem. Any planning must at the outset be based on a separation of two main types of traffic—parcels traffic and passenger traffic. Where the site makes conditions favourable, the most effective separation is naturally to accommodate these two types of traffic at different levels. The new station at Montreal in Canada is the typical example of such a separation. In this building

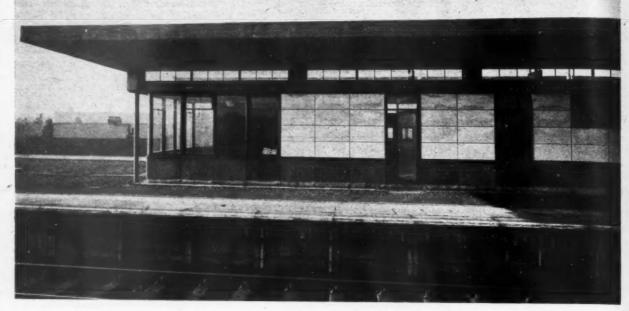
passengers enter the station at high level: trains run at intermediate level, and all parcels are handled at low level. Although this complete solution is rarely possible, many sites lend themselves to a two-level solution. sites lend themselves to a two-level solution. Once this primary separation of passengers and parcels has been made, the easy move-ment of large numbers of passengers about the station has to be considered. Any archi-tect of ability would obviously plan a room-to-room relationship which allowed for an easy flow, but the complicated move-ment about a station concourse is not a simple one to define without some special knowledge. Indeed, this movement varies according to the type of station, main line terminal, main line interchange, or suburban. A good deal of evidence of this problem

REGION):

SOME RECENT

WORK

328] THE ARCHITECTS' JOURNAL for April 8, 1948



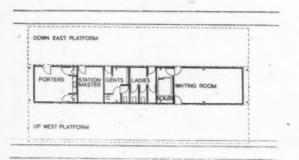


MARSH LANE STATION. Top, the island platform. This is the first complete unit station, and the technique is a continuation of the experimental work at Queen's Park station. Owing to the heavily polluted atmosphere, the facing is of enamelled iron panels. Left, plans of the unit buildings. Bottom, block plan. The ticket office and entrance are at low-level.

> has been collected recently. The following table, built up from observations made by the General Research Section of the London Midland Region, gives some idea of how the use of the parts of the station varies under different circumstances:—

	Proportion of passengers using facilities						
*	Ticket office	Indicator	Book stalls	Waiting rooms	Tollets	Refresh- ment rooms	
l'erminai station	30%	62%	50%	10%	15%	20%	
nter- change station	4%	21%	16%	20%	19%	52%	

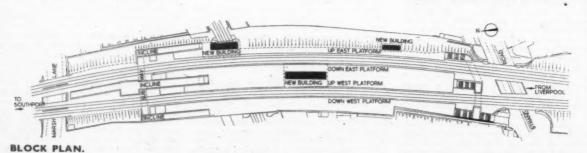
As a result of such studies it now seems possible to lay down diagrammatically the correct relationship of entrance to ticket offices, departure indicators, etc. In addition, it seems possible to relate the peak number of passengers to the widths of passage ways, number of ticket windows, number of ticket



ISLAND PLATFORM BUILDING.

UP-PLATFORM BUILDING.





BRITISH RAILWAYS (LONDON MIDLAND

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barriers, number of lavatories, areas of con-courses and waiting rooms. When this work is completed, there is no doubt that it will provide a valuable addition to the existing data on building standards and the potential aving in building schemes will be considerable.

able. The main principles of room-to-room re-lationship and passenger flow can be illus-trated by two examples. The first of these (see the Main Line Station plan on page 326) shows a station layout on a level and unrestricted site; the principal feature of the planning being the separation of accommo-dation and routes of circulation for staff, resengers and marcels.

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massengers and parcels. The second scheme (see page 327) is an example of a suburban station on a restricted example of a suburban station on a restricted site, in which very intense passenger flow is the deciding factor. This example illus-trates very fully the study which has been made of passenger flow and the scientific appraisal of sizes of stairs, bridges and concourse. In order to cope with this problem adequately, observations were made by the General Research Department during rush hours to show the volume of during rush hours to show the volume of passengers accommodated at various points. Taken in conjunction with previous data on the rates of flow of passengers on stairs and through concourses and barriers, these figures enabled accurate plan sizes to be worked out.

The influence of the flow analysis on the bridge and stairway design is of great in-terest. With a known rate of flow of passengers on staircases, it was found to be impossible to deal adequately with the pas-sengers by means of a single stair on each platform. The plan consequently provides a second stair about midway along the plat-form length which has the effect of comb-ing out the crowds from one end of the train, and conducting them along a separate route to the main concourse. These secondary stairs and bridge connections also serve the needs of passengers changing platforms.

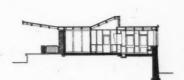
(b) Smaller Stations

The problem of rebuilding the smaller station is no longer a problem of individual buildings. The smaller buildings that are required are numerous. They can be grouped to form a yearly programme of building. It is, therefore, possible to obtain a total economy through the repetition of the use of similar parts. But although this repetition of parts is desirable on the grounds of economy, the plans of the buildings themselves must have variety and flexibility. In addition to this, the struc-tural method must be one that lends itself to speed of erection.

to speed of erection. The way in which this problem has been studied was described in this Journal for November 28, 1946, and in the RIBA Journal, February 1948. A prototype station building which could meet the conditions set out above was erected some time are on a platform site at Ouen's time ago on a platform site at Queen's system and discovering its behaviour in actual use. It is sufficient to say here that the prototype proved itself to be, with certain modifications, a satisfactory struc-tural form, and the first full scale station has now been built at Marsh Lane (see this

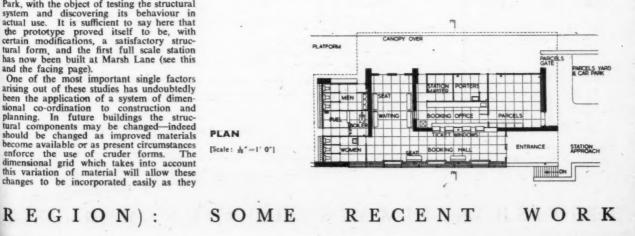
One of the most important single factors arising out of these studies has undoubtedly been the application of a system of dimensional co-ordination to construction and planning. In future buildings the struc-tural components may be changed—indeed should be changed as improved materials become available or as present circumstances enforce the use of cruder forms. The dimensional grid which takes into account this variation of material will allow these changes to be incorporated easily as they

At. top of page, island building at Marsh Lane Station. Immediately above, standard sheltered seat for island platform. Right, interior of waiting room at Marsh Lane station. The seats are standard, the back and seat being the same unit. Below, plan and section of a typical rural station. A sketch of this station appears at the top of page 325.

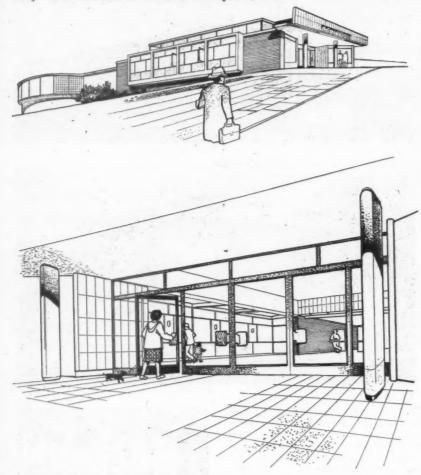


SECTION E-E.





D



SOME SMALLER STATIONS. Above, sketches showing treatment of a high-level ticket office and characteristic detail of the entrance. Below, left, a plan of the above station, and, right, of a small rural station. Scale: $\frac{1}{4}$ in. to 1 ft.

are required, without invalidating the flexibility of layout shown in the accompanying plans.

From a planning point of view these schemes represent a considerable breakaway from the traditional station building in which the platform itself acted as a kind of corridor from which the individual rooms of the building were approached. This isolation of rooms has not been found satisfactory in practice, and in the plans illustrated, it will be seen that in various ways one single general waiting space replaces the independent waiting rooms. This arrangement leaves ample scope for the designer and a considerable wright con-

This arrangement leaves ample scope for the designer, and a considerable variety can be achieved. This variety has again been deliberately emphasized by the introduction of local walling materials. It is felt that by these means the prefabricated components may be more effectively related to their different types of setting, and that a contrast of materials can be obtained which might well enhance the qualities of both the local and the imported components. It now seems to have been proved that the smaller station can have the necessary free

It now seems to have been proved that the smaller station can have the necessary freedom of planning and design in spite of the utilization of similar components. This means that the following advantages can be obtained:---

(i) It is possible to bulk order the parts of a number of different stations, and so secure economy of production.

(2) It is possible to rationalize the production.
 (2) It is possible to rationalize the production of working drawings, in fact component and assembly drawings for any number of stations have already been built up.

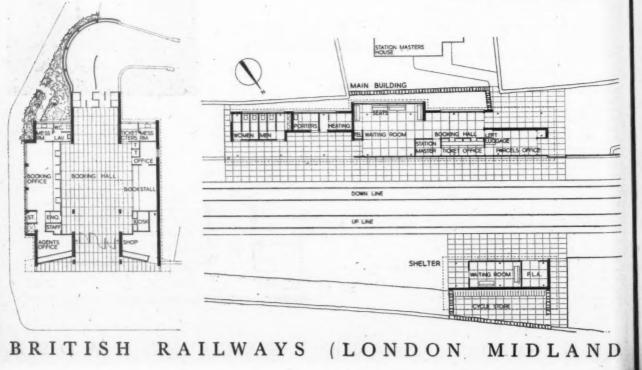
(3) As a result of the scientific tests carried out on the prototype and its components, a definite standard and quality for future building work can be laid down.
(4) It becomes possible to make an effective organization for the erection of these build.

(4) If becomes possible to make an effective organization for the erection of these buildings on the site, and to develop a maximum speed for this operation.

It is not claimed that the system applies to every station building. But it is interesting to find that even in individual buildings advantage can be taken of standardization of units in various ways.

(c) Remodelled Stations

Probably by far the largest station problem during the next few years will be that of



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remodelling. It cannot be too strongly emphasized that this is not just simply the question of superficial smartening up. The principal advantages to be worked for

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(1) Improved efficiency by the provision of better layout, accommodation and equipment.

 (2) Improved economy by a policy of re-placing or removing redundant areas, and by the substitution of materials involving less maintenance

(3) Improved appearance which can arise from (1) and (2), and which can be further developed by introducing order into all station equipment, such as signs, display,

station equipment, such as signs, display, kiosks, trade advertising, etc. The task of dealing with these questions consistently throughout the country involves probably one of the most important tasks that railway architects have to face. From the point of view of the public, the trans-formation of the existing station is as vital as the building of new stations. From the point of view of the designer, it is just as exacting, and very much more widespread. New building work will generally arise from obsolescence of structure or planning. Conversion work occurs in cases where the

Conversion work occurs in cases where the structure is reasonably sound, although the planning may be inadequate for modern requirements. It is generally true that most railway stations were built at a time when railway stations were built at a time when conditions were quite different from those of the present day. This has resulted in re-dundancy of accommodation on the one hand, for instance in the multiplicity of waiting rooms, and inadequacy of accommo-dation on the other, for instance in parcels offices. These conditions in themselves en-rourage deterioration in matters of both convenience and appearance.

convenience and appearance. At the same time, a large number of station buildings have an architectural station buildings have an architectural character which, although not contemporary, has some dignity and many fine qualities. A problem facing the designer consequently is how to bring some sense of convenience and order into a large number of individual buildings without destroying their essential character. The problem for the architect is also how to carry this programme through on a realistic basis, with reasonable despatch and economy.

The planning standards relating to the most favourable positions of rooms and equipment in relation to passenger movement, and toose establishing the desirable sizes, which have been discussed above, are obviously of great assistance. The data related to areas, numbers of ticket barriers, numbers of lavatories, etc., are also essential in the inter-ests of conomy. The use of these standards ests of economy. The use of these standards would ensure that work carried out at any time will be in line with a general policy. Also with these guiding principles, it becomes possible to tackle improvements on a pro-gressive basis: the departure indicator, added this year, will bear a relation to the remodelling of the refreshment room next year. By this means the appearance of the station can be systematically changed.

A second section of this article dealing with station equipment, industrial design and office organization on the railways will appear in a later number of the JOURNAL. The staff participating in the work described on these pages include: William H. Hamlyn, F.R.I.B.A.: Architect,

London Midland Region.

J. L. Martin, M.A., PH.D., F.R.I.B.A.: Prin-cipal Assistant Architect. R. Llewellyn Davies, B.A., A.R.I.B.A., and staff: Research and development work on

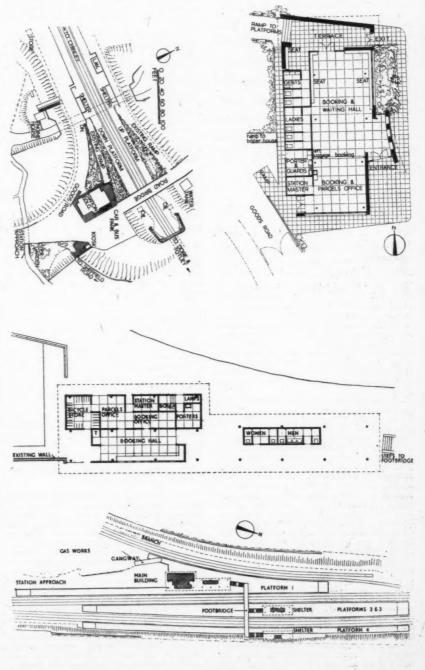
station buildings.

H. Wyatt, BARCH., A.R.I.B.A., and staff: Hotels, hostels and refreshment rooms. H. J. Davies, H. H. Mathews, T. I. Roberts

and staffs: Special buildings, canteens, offices, etc.

1115	BOILER GENTS	C SRAT	SHELTER CHIER RANG
		PLATFORM	

SOME FURTHER SMALL STATIONS to a scale of 1 in. to 1 ft. All the stations are designed on a unit principle, though local materials are widely used in conjunction with unit components. The block plans show the disposition of the units.



REGION): SOME RECENT WORK



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

B. J. Collins

March 18. At the Livingstone Hall, Broadway, Westminster, S.W.1. THE STAFFWORK OF A PLANNING AUTHORITY. **B.** J. Collins: I wonder if you have ever played a parlour game called Monopoly. It is a bigger and better thing than snakes and ladders. The players sit round and compete in acquiring freeholds, leaseholds, rents, mortgages and so on, to build up the most valuable property they can, all depending upon the throw of the dice; and they are subjected to all sorts of distressing hazards such as bankruptcies, foreclosures and even going to gaol.

going to gaol. It has sometimes occurred to me that there would be educational value in a similar game based on the Town and Country Planning Act, 1947. Land on Square 6 and your development application is approved: Square 11 and pay a development charge. Throw a double and serve a purchase notice. Huff your opponent and his land is designated for compulsory acquisition. One could make endless play with appeals, revocations, enforcement notices, preservation orders, payments for depreciation of site values and so on. The dice would be masters of many a complex and thrilling situation. A good time would be had by all. I find myself wondering if it would train us for the reality?

Ing if it would train us for the reality? Upon reflection I realize that it would be the worst training we could possibly have, such a preoccuption with the paraphernalia of technique, to the detriment of the creative idea that lies behind. It can be no light matter when the planning authority has got to take the place of the dice, for its every throw is, for someone or other, momentous; and unless every step taken is taken with a clear recollection of the object in view then we shall get bogged down with technique and we shall not see the wood for the trees. So with the tremendous technical powers of the Act beckoning to us, we must not allow ourselves to be hypnotized by the charm of their

complexity, but must continue to apply ourselves to the sober consideration of their use in the pursuit of our main purpose.

So my point is that rather than consult the Act in order to discover what wants doing, you should occasionally reverse the process and decide first what wants doing, and then go to the Act (and of course the Regulations) for the sanction and elaboration of your method.

RELATIONSHIP TO NATIONAL POLICY

I do not propose to browse around in the ethics of planning. This is not the time for that. A planned economy with individual freedom is national policy, and it is clear that within that policy there is a big place for the planning of town and country. But I am concerned to mention that the place of town and country planning, though a big one, is limited; and that in the sphere of national policy the town and country planner may have to take orders rather than give them.

-The technical man can initiate ideas: he can even formulate a policy ready-made for adoption as he did, for instance, in the case of National Parks. But I continue to think that the town planner should remember the confines of his subject and that in pursuing energetically the best social and economic environment for people to live in he should not cavil at any framework within which he is ordered to operate. Therefore, in relation to national policy the rôle of the local planning authority should be admitted to be a subordinate one, and the tail should not attempt to wag the dog.

THE APPROACH IMPLIED BY THE ACT

I have said that the technique of the Act must come second to the idea. But there are some aspects of its technique which do vitally alter the situation in their own right and must be taken to condition our outlook. First the solution of compensation and betterment, or nationalization of develop-ment values, is a revolutionary change which has not yet surk in. Certainly the public have not yet grasped it, and it is our duty to assist towards its full appreciation. But neither have the principle and its wide implications yet become a part of our own pro-fessional consciousness. So it must be stressed that under the new régime the hand of the planning authority is free, and that when a development application is refused no economic hardship is inflicted. The overriding consideration is at last confined to the public interest and the applicant's desire falls very definitely into second place. We are now entitled to spare ourselves the heart-searchings of human sympathy which in the searchings of human sympathy which in the past have led us so often to compromise with our true principles. The proper use of the land is to be limited to so and-so and that is that. So we must train ourselves afresh to act with the courage of our Council's consisting. convictions.

COLLATERAL INDISPENSABILITY OF PRIVATE ENTERPRISE

That, however, is not the end of the story, and the applicant's desires, still have an importance which it is essential to consider meticulously, if for no other reason than that the wells of enterprise will be dried up throughout whole districts if action is unduly harsh. We envisage a great measure of positive planning which will depend on corporate enterprise not private enterprise. But we have no reason to suppose that the killing of private enterprise would not still be an irretrievable calamity. And private enterprise will be killed unless there remains some genuine incentive to development. The theory of the new régime is that there shall be no appreciable profit in the development of land, but that proper reward will be gained by the builder exercising his constructive function of building. The practice of the theory however will turn entirely upon the fixation of development charge by the

Central Land Board and the behaviour of the open market in which the public decides where it is prepared to build and how much it is prepared to pay. At the moment we have scarcity values and the public would pay almost anything to build anywhere. But in time the margin will narrow and the situation become more hazardous. I think it may be a long time before we see boards advertising, "This valueless building site for sale." But the threat is there and positive planning is not the answer for every indi-vidual site. My point here is therefore that the understanding between the Central Land Board, the local planning authority and the open market must be good, and that in any place where the planning authority is fostering development in the face of an unresponsive public it can only succeed (except by direct action) with the help of low development charges. The system must therefore be sensitive and the planning authority must keep the Central Land Board well abreast of its problems and intentions.

THE DOMINANT OBJECTIVE

Now as to principles which can assist our staffwork. The first and cardinal principle is that the plan must know what it is aiming at, it must have an object. The vague intention of designing a thoroughly well-planned area according to the best planning principles is not enough; any more than it would be enough for an army commander to undertake an operation solely with the intention of having excellent battles according to the best military precepts. The plan must have objectives, clear and definite, and they must be stated at the beginning of the work. A good plan without a motive is like a well rounded eneech without a muthing to save it

A good plan without a motive is like a well rounded speech without anything to say: it is pleasant after dinner, but it is no good for instructing the cook. No matter how natty the technique it can never disguise the absence of a central idea. You may say that a Development Plan must be compounded of a thousand ideas: so it must: but those are not the Grand Objects of which I am speaking. That would be like writing a specification and getting out your details, and forgetting to design the house. In the case of a whole county it will more

In the case of a whole county it will more usually be that objectives are multiple. But the principle holds good and I maintain it as essential that the planning authority should at the commencement of its work decide boldly and without ambiguity or distracting detail, what its policy is to aim at. In Greater London we are of course singui-

cide boldly and without ambiguity or distracting detail, what its policy is to aim at. In Greater London we are of course singularly lucky in having the Greater London Plan, 1944, and the Ministry's formal statement upon it, to guide us. This provides a policy which the counties and county boroughs can explore and carry out. I often think it a proof of the Greater London Plan's merit, if intrinsic proof were needed, that despite the oceans of criticism by which it has been buffeted, none of its principles has yet been impugned. Its principles have been criticised like everything else, and by high authority, on the grounds that the plan does not go far enough: but Sir Patrick Abercrombie was asked to prepare a plan, not a revolution, and I am confident that if our first efforts can bring its ideas to life then we shall have taken a great step on the way to the final answer.

DECISIVENESS

The second important principle I want to mention is the principle of Decisiveness, All planning is a balance of advantage: the process of planning is a process of systematic forethought and decision before the event. The job of the planner is to undertake the forethought and to conclude it, then to take decision; and decisions when made should be stuck to. That is what they are for. I know there are circumstances when decisions ought to be changed, but I do not propose to enlarge upon them, because they have had more attention than they deserve. We have heard a great deal about the flexible plan, quite a legitimate and valuable thing in this capricio bad wa: reside in purpose plan ca trol in missible succeed ations The qu alteratin have b tion as ment I should reasons pelling.

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capricious world, but it has led authority into bad ways. The flexibility of the plan should reside rather in a latitude deliberately and purposely allowed in certain matters. The plan can simply refrain from dogmatic control in those matters where latitude is ad-missible. I hope that development plans will missible. I nope that development plans will succeed in leaving a wide field for such vari-ations of taste and vagaries of enterprise. The quinquennial review will moreover pro-vide opportunity for proper and deliberate alteration. But meanwhile the proposals that have been considered worthy of incorporaion as definite items in the current develop-ment plan should be worth their salt, and should be resolutely maintained unless the reasons to the contrary are completely comnelling.

AGREEMENT AND SCEPTICISM

The third principle I would stress is that of Agreement. An imposed scheme is no good, and a planning officer who is hated is a failure. All opinions must be respected and the greatest pains must be taken to bring them as far as possible towards unanimity in the final plan. It is a commonplace that the secret lies in the groundwork, the conthe secret lies in the groundwork, the con-sultation at the earliest stage. I would rather have a modestly effective plan with solid backing than the most perfect plan un-realized, hanging on an office wall. The next principle that I would enjoin is one of detail, concerning the survey and report rather than the plan, is the principle of Securities. Be scentriand of the findings

report rather than the plan, is the princ.ple of Scopticism. Be sceptical of the findings of your survey, be scientific. If a chapter of your report leads to an easy conclusion then have another look at it, pry into it, make sure that you have truly noted all the assumptions on which it is based, make use those assumptions are justified and sure those assumptions are justified, and then re-inspect your chain of deductive reasoning to look for fallacy.

THE PLANNER'S ATTITUDE

Now of our attitudes to various tasks and taskmasters. If attitudes are right then relationships will fall correctly into place: and relationships will fail correctly into place: and relationships are very important. I often think that the relationship of plan-ning officers to the Ministry leaves some-thing to be desired. They go to the Ministry readily enough when in a thorough difficulty, But for the rest of the time there is carping criticism of what the Ministry deer out correction of what Ministry does and sarcastic obloquy of what it doesn't do. There is talk of being "frustrated." This is quite a different thing from the constructive discontent of which I have spoken, and must be eradicated. The lanner should no more consider himself frustrated by the Ministry than a scrumhalf should consider himself frustrated by the referee. If the whistle doesn't blow he should get on with the game, and if it does he should be loyal to the decision.

ROAD PLANNING

What precisely we are to use as a safe-guard against fixed ideas it is hard to say. But possibly one remedy is for the back of one's mind to cling tenaciously to the idea!, no matter how distant it may at present seem. For instance, in the realm of road and street planning, where we are gradually straightening out the muddle and achieving more rational standards, I consider we are not really by any means in sight of a satis-factory solution yet. The distinction between the road's two functions of pro-viding transit on the one hand and frontage access on the other has at last been realized We are busy providing service roads and

We are busy providing service roads and designing better junctions. Traffic routes should provide for moving traffic and for nothing else. They should provide no frontage whatever. No vehicle should ever stop upon them, and the method of preventing stopping should be by having nothing to stop for. They should be analogous to steamship routes at sea.

Traffic channels should lead from the traffic routes to the "quays" where vehicles can come alongside. There should be no stopp.ng in the channels, either, but they should by their design effect a reduction in speed. And they should always be short and never And they should always be short and never provide a way through to other channels, because if they do so they become traffic routes and defeat their purpose. At the quays or drawing up places there should be no waiting for long periods, but waiting vehicles should be led away to car parks, which are the equivalent of harbours. Public service vehicles should similarly never stop upon the surface of a traffic never stop upon the surface of a traffic route but should diverge through channels to quays provided for every stopping-place.

THE OPPORTUNITY

In the present economic crisis we are in for a difficult period and early realization is going to be scanty. But I cling to the belief that the total of the world's goods belief that the total of the world's goods will soon mount to sufficiency, that our industrious people will contrive to earn their fair share, and that better times will come. So let us make good use of the breathing space which the interruption of building affords, let us determine by clear thinking and hard work to formulate fine plans within the allotted three years, and in doing so let us create such a logical and inspiring programme for changing the civic inspiring programme for changing the civic scene that we may be proud to be the scene-shifters.

ABT Kenneth Campbell

March 20. Speech made by Mr. Kenneth Campbell, President, at the Annual General Meeting of ABT.

It is not Kenneth Campbell: necessary for me to enlarge on the serious state of our country to-day. We know it too well, and over many of us hangs the ominous possibility of feeling its full effect in our own lives.

Our industry has the unenviable distinction of providing one of the main fields in which the restriction of capital investment is to operate. Whether in fact this takes the form of a reduction in the volume of work now current, or whether it drastically revises the wide programme of redevelopment formerly planned, it is clear that the almost boundless prospects of work before us, on which so many plans were based, have now retreated no one knows for how long, beyond our horizon.

Almost every office where preliminary plans, even building work, were in hand, has felt the pinch already. Serious as this blow is for us as tech-

nicians, as trade unionists we must view with dismay the heavy drive to hold wages and salaries at their present level. When we laid down our salary scales there were many among us who thought them too low. But among us who thought them too low. But the committee responsible were dismally aware that hundreds of our members, and thousands of technicians outside our ranks, were struggling under incomes far below the modest standard set by us. Since that time prices have continued steadily to rise, and until the income level of technicians and, until the income level of technicians generally, and our members particularly, bears some relation to the present cost of living, we cannot take the responsibility of relaxing the struggle to attain at least the

standards to which we are committed. A glance at the company reports in the financial press and at Society life in the West End shows where inflationary pressure is at its peak. "Too much money" may be "chasing too few goods," but few of us in the humble ranks of technicians can join in that hunt.

Have we then as technicians no part to play in the national effort towards solvency and prosperity? Certainly we have, both individually and collectively. All that was said a year ago on this point still stands. Individually we expect from our members the utmost effort in all work which adds to our national wealth, and the utmost vigilance solution at the second be transformed into an efficient instrument for the re-establishment of our country. In doing so we may make mistakes and meet opposition. Let us not be deterred or in-timidated by either, for truly they are the evidence of progress, but let us learn from the one the experience to overcome the other.

If these tasks are to be tackled success-fully we require continually to build up our membership. We must recognize that in a period of slackening employment such as this there is a tendency for recruitment to slow up. This tendency is already show-ing in our monthly admission figures, and we must take vigorous action to combat it. Growth does not come automatically, and we must look to each member individually to bring in new blood to increase our forces. Our still partly scattered membership dic-tates our General Council organization with its percentage of individual members still, its percentage of individual members still, unavoidably without a branch. Although this works remarkably well we must recog-nize that it is an interim form and that we cannot develop a fully democratic and representative structure until we are fully organized in branches everywhere; and that the present undesirable centralization in London must persist until there are sufficient branches to make organization into districts branches to make organization into districts with responsible committees a practical proposition. Nevertheless I am sure that

proposition. Nevertheless I am sure that district organization must be our aim. In closing my remarks I should like to make one point. Do not let us be downcast or deterred by the difficulties facing us where we had expected peaceful development and progress. The birthpangs of the new world are longer and more painful than we had foreseen, and may be more painful yet. But in the trade unions we have one of the most potent instruments for bringing this new world into being. Their chief power springs from the fact that they are them-selves, in varying degrees, models of

selves, in varying degrees, models of democracy, of the real democracy which goes far beyond the formal five-yearly casting of a party vote. Continuously active, continuously participated in, and controlled by their members, faithfully reflecting and translating into action their wishes and their aspirations. This is the pattern of the future.

future. The trade union is the democracy of the ordinary man in his highest role as producer and creator of the world's wealth. With this in our minds therefore let us face the coming year with courage, with confidence, and above all with unbroken weith cond trust is each other. unity and trust in each other.

Resolution passed by the Annual General Meeting of the Association of Building Technicians on Saturday, March 20, 1948. "This annual General Meeting recognizes that inflation is a danger and that national

wealth is directly related to national production. It therefore calls upon all members to pursue vigorously our policy to increase efficiency individually and collectively throughout the building industry.

"At the same time this A.G.M. calls on the Government to allow increases in wages to the underpaid section of the community, and to effect a drastic lowering in the cost of living by reductions and rigid control of prices and profit, and pledges support for any steps they may take to achieve these aims."



HOUSE AT MINCHINHAMPTON

DESIGNED BY ELLERY ANDERSON, ROISER AND FALCONER

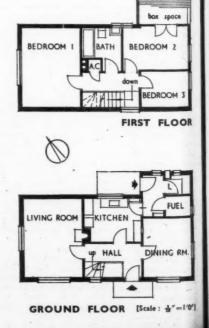


GENERAL. A detached house of 1,000 sq. ft. designed for a private client. The attempt has been made to keep the design in sympathy with local tradition.

CONSTRUCTION. The exterior walls are of 9-in. hollow concrete block with a ³/₄-in. cement rendering, finished with a final coat of crushed stone mixed with the white cement. Interior walls are of 4-in. concrete block. The roof is of grey concrete tiles. Floors are of wood throughout. Windows are standard steel.

CONTRACTS. Single contract. £1,100. Erected July, 1946. The general contractors were J. Simmonds and Sons.

Top, from south-west; left, from north.



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To Whom it may concern.

Dear Sir(s),

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SCHOOLS-WOOD BLOCK FLOORING.

Hitherto the Ministry of Education, owing to their comparatively small allocation of hardwoods, have been able to authorize the use of hardwood block or strip floorings only for Assembly Halls, using other types of flooring for classrooms. Inasmuch as, in our opinion, the only really serviceable and hard-wearing floor suitable for classrooms is a wood block floor, and having been able to secure a fairly large quantity of reclaimed hardwoods and slabs and off cuts (which Timber Control agrees as outside allocation), we have pointed out to the Ministry that this material is available for their use. The Department has now agreed to withdraw the ban on the use of hardwood block flooring for classrooms, and circulars to this effect are now being issued to Local Authorities ; we invite enquiries for these floors from the Home Counties and the South. Orders will be accepted and executed in rotation until supplies are exhausted. The thickness of the hardwoods referred to in either strip or block is 1 inch nominal, finishing # inch.

Blocks manufactured from reclaimed hardwoods can also be laid in Buildings other than Schools. Timber Control (Consumers) licences are readily granted and we can assist in this respect.

Should you have wooden floors that are badly worn, we can clean off, reface and wax-polish, using electrically- or petrol-driven surfacing machines.

Hitherto we have not tendered for composition floorings, as we did not consider the synthetic magnesite (manufactured from sea-water) suitable for this class of flooring. Now, however, that we can obtain the genuine imported mineral magnesite, we are able to give the 100 per cent. guarantee that clients are entitled to, and shall be happy to submit quotations for this type of flooring. It is obtainable in red, brown and/or buff.

Yours faithfully,

The Philip Flooring Company.

Philip.

(For 39 years connected with Messrs. Jos. F. Ebner, Ltd.)

MAINTENANCE OF SCHOOL FLOORS.

P.S.—We are always interested in the maintenance and wearing qualities of floors, and for some time we have been treating all hardwood and softwood floors with "LIGNOPERM." This solution, when applied to the surface of a clean floor, penetrates into the structure of the timber, toughening the fibres exposed to traffic, retards shrinkage and splintering, and preserves the original composition and elasticity of the wood. It improves the floor surface, and is non-slip. The finished areas are easier to maintain because "LIGNOPERM " provides a surface from which dust and dirt are easily removed. Please apply for particulars.

HEATING and VENTILATING



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INFORMATION SHEETS

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 items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

I SOCIOLOGY. 2 PLANNING : General. 3 PLAN-NING : Regional and National. 4 PLANNING : Urban and Rural. 5 PLANNING : Public Utilities. 6 PLAN-NING : Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN : General. 10 DESIGN : Building Types. 11 MATERIALS : General. 12 MATERIALS : Metal. 13 MATERIALS : Timber. 14 MATERIALS : Metal. 13 MATERIALS : Timber. 14 MATERIALS : Metal. 13 MATERIALS : Timber. 14 MATERIALS : Metal. 13 MATERIALS : Applied Finalment, Treatments. 16 MATERIALS : Miccilianeous. 17 CONSTRUCTION : General. 18 CONSTRUCTION : 19 CONSTRUCTION : Betalis. 20 CON-STRUCTION : Complete Structures. 21 CONSTRUC-TION : Miscellaneous. 22 SOUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHT-NG. 25 WATER SUPPLY, SANITATION. 24 LIGHT-NG. 25 WATER SUPPLY, SANITATION 24 SERVICES, EGUIPMENT : Miscellaneous. 27 FURNITURE, FIT-TINGS. 28 MISCELLANEOUS.

1.5 sociology

POPULATION CHANGES : FORECAST

Forecasting Urban Population Distribution. A. W. Stevens. (Journal of the American Institute of Planners, Summer-Fall, 1947, pp. 19-21.)

Description of method adopted by City Plan Board of City of Dayton, USA, in order to predict population changes in comparatively small segments of city. Trialand-error method based on relationship between population changes and land use changes. System obviously feasible only in towns with low percentage of vacant land leaving little opportunity for radical changes in land use.

16.24 materials: miscellaneous **WOOD GLUES**

Modern Adhesives. 2-The Wood Glues. Dr. D. A. Hubbard. (Wood, Feb., 1948, pp. 50-53.)

Survey of main types in use to-day for bonding wood and metal. Technical note of value to manufacturer of mass-produced articles and to architects and other timber users engaged on work involving special glueing problems.

Distinction drawn between adhesives which support growth of moulds and bacteria and the "tailor-made" synthetic resins which do not do this, and which are not attacked by

water or water vapour. Characteristics and methods of use of urea formaldehyde glues, and the behaviour of the different commercial forms in which it may be produced are discussed. Particular reference is made to the glueing require-ments of plywood when intended for use internally and externally respectively. A section is devoted to cold setting urea formaldehyde glue for general construction

work, and this will be of greatest interest to architects. It is stated that modern urea formaldehyde cold setting adhesives made with special hardeners are superior to casein glue and animal glue in gap-filling properties as well as water- and mould-resistant qualities

Need for gap-filling types of glue is due to variation in pressures in cramping in constructional work.

Unexpected advantage in gap-filling glues made with special hardeners rather than with wood flour or other fillers, is that an overall additional increase in joint strength is obtained, thus permitting the bonding of a wider range of materials than was formerly possible.

17.24 construction: general **BUILDING BYELAWS**

Model Building Byelaws Illustrated. G. E. Mitchell. (B. T. Batsford, Ltd. 2nd. Ed. 15s.)

Revised series issued by the Ministry of Health under the Public Health Act, 1936; explanatory notes, and notes for Building Specifications based on recommendations of the Ministry of Health and Ministry of Works.

The Public Health Act, 1936, enacted that bye-laws existing at the date of the passing of the Act (July 31, 1936), ceased to have effect after three years from that date, and local authorities were then required to make new bye-laws. These new bye-laws will cease to have effect after ten years from the date they were made, unless the time is ex-tended by the Minister of Health. A second edition of Model Building Bye-Laws is there-fore opportune, though, having regard to the war years, it may be that the required revision will be delayed.

There is an introductory note to this book which indicates changes that have been made in the Model Series. This is followed by a memorandum setting out the sections of the Act under which the clauses were made. The clauses themselves then follow, and some very useful diagrams are inserted to illustrate a particular bye-law. Damp courses, recesses and chases in walls, con-struction of chimneys, open space in front and rear of buildings, courts within buildings, and drainage diagrams are examples of such insertions.

Included also are specification notes with illustrations of items which are not con-trolled by bye-laws such as stairs, plaster, paint, etc. Defects in construction which infringe bye-laws should prove a useful reference.

British Standard Specifications are referred to in the book and a list is included, together with a specification of a modern house which is based on the Model Bye-laws, local bye-laws, British Standard Specifications, and Appendix H of the Housing Manual, 1944, Tachnical Amandian Technical Appendices. Bye-laws should be regarded as minimum

requirements, and though the local authority has no power to waive them, the Minister of Health can give them authority to do so in suitable cases. It is to be noted that the Model Bye-law dealing with foundations merely required them to be taken to such a depth, or so constructed as to render the building immune from damage from move-ments due to seasonal variations in the content of moisture in the ground. This, of

course, has reference to a clay soil, and it would be far better if a minimum depth had been specified. Opinions differ on this point, which would be a reason for a mandatory direction.

This book should prove a useful addition to the library of an architect, and students will find it of advantage in their studies.

24.69 lighting **BATHROOM LIGHTING**

An Evaluation of Methods and Fixtures used for Bathroom Mirror Lighting. M. Fahsbender and B. Priest. (Illum. Eng. [USA], Dec., 1947, p. 999.)

Trials with different bathroom mirror lighting. Very good. Illustrated. 19 figures.

This is a study of lighting for shaving—a tricky little problem. It is odd that the first persons to do it were these two women.

The types of lighting are actually described and well illustrated. Chiefly they comprise the following: lights above mirror, two side brackets, a combination of these, circle round the mirror. Some have U-V spotlights added.

Side brackets and top light combined are thought to be best, but side-brackets only were quite successful either with fluorescent or tungsten units. The circular light was also good. Always the main point proved to be to bring down the surface brightness of the futures. of the fittings.

If only one is used it should be over the mirror, but only a fitting with 2-20 watt fluorescent tubes and a low-brightness surface was regarded as reasonably successful in this position.

Mounting heights of side-brackets should not be too high-5 ft. 1 in, rather than usual 5 ft. 6 in., to give good light under the chin.

Bathrooms over 60 ft, area need general as well as mirror lighting. Lighting conditions found good for shaving are regarded as good for other purposes.

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.I.

OUESTIONS AND ANSWERS 2938 FARMHOUSES

Are there special regulations concern-Q ing the superficial area of farmhouses (as distinct from agricultural workers' cot-tages), and, if so, what are they and what is the maximum area that can be provided nowadays?

There are no special regulations con-A There are no special regulations con-cerning the superficial area of farm-houses. Each house is taken on its own merits and the best information is available from the County Agricultural Executive Committee, which is usually to be found in the County Town, and who may in turn refer the question to the Ministry of Agri-culture and Fisheries. This Committee knows of the local customs appendixing to A knows of the local customs appertaining to their area. The size of the house varies according to

the size and type of farm, and also whether workers sleep in or out; usually speaking, single workers in the North are provided with accommodation actually in the farmwith accommodation actually in the tarm-house for sleeping and eating, but in the South sleeping accommodation is usually provided for them outside the farm build-ings. Storage space varies according to the type of farm, and in some cases, as well as sleeping, eating, and storage accommodation, an office must be provided for the keeping of records.

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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.

THE INDUSTRY

WASHERLESS TAPS

Various designs of taps with easily replaceable washers have already been referred to in these Notes, and now a washerless type has been introduced by Trumek Ltd., based on the mechanism used before the war in the Mason patent valve for high pressure steam lines. Two models are in production so far, a press type and an ordinary bib tap, both of very good appearance. The majority of water authorities have accepted them, and prices are reasonable. (Trumek Ltd., 191, London Road, Kingston on Thannes, Surrey.)

SLIDING AND FOLDING DOORS

A fortnight ago reference was made here to a rolling shutter catalogue issued by Haskins, and now Messrs. Hill Aldam have produced a 120 page album of designers' details covering almost every conceivable type of sliding or sliding and folding door. This firm has been making door gear for a number of years, and they have standardized a large number of types for different purposes and with different types of fitting. The detail drawings are full and clear, and a praiseworthy effort has been made to see that each page (or facing pages) can be read as a complete unit without constant reference to other parts of the book. An excellent production which should certainly be kept for reference. (E. Hill Aldam & Co., Ltd., Britannic Works, Haslemere Avenue, London, S.W.18.)

A FOLDING BAR

The two photographs reproduced below show a new type of bar which folds up into a very small space, and opens out to cover a floor area of about 15 square feet. When closed, it measures as little as 3 ft. 6 in wide by 9 in. deep by 6 ft. 10 in. high. The front is divided in half, and when the upper door only is opened the fitting is no more than an ordinary cocktail cupboard. The lower half also opens and an L-shaped counter swings down on top of it forming guike a large bar, with storage space for 50 glasses and 75 bottles, as well as the pourers, bottle openers and other odds and ends which bartenders seem to need. The opened bar is quite rigid and is made in both right and left hand models. A fitting of this type seems most suitable for small bottles or the private dining rooms of the larger restaurant, and there is little reason why the same sort of thing should not be used in railway buffet cars or aircraft. One of the main points is that the whole thing locks up and keeps all the stock secure.

Various materials and finishes are standardized, the wooden models being mainly for export.

Any architect with a client whose drinking is on a fairly sections scale might well suggest one of these for a private house or the directors' dining room. It should perhaps be added that the manufacturers supply only the bar and fittings, the bottles remaining a job for the sub-contractor. (Collaptible Cocktail Bars, Ltd., Dicey Avenue, London, N.W.2.)

HOUSEHOLD SWITCHGEAR

The current edition of the I.E.E. wiring regulations recommends that the normal

two-wire A.C. supply with an earthed neutral should be fused only on the live side, and Midland Electric are one of the first firms to introduce switchgear specifically designed to meet this suggestion. Two sizes have so far been standardized, 30 and 60 amp, the smaller size also taking a 15amp, cartridge. The illustration on this page gives a general idea of the appearance of the new design, but little indication of scale. Dimensions of the 60-amp, size are $3\frac{1}{4}$ by $4\frac{1}{4}$ inches, with a depth of $2\frac{1}{4}$ inches from front to back, or about one eighth of the size of the usual rather cumbersome ironclad switchgear which is still standard practice on so many jobs.

practice on so many jobs. The standard fuse is of the high rupturing capacity cartridge type, and is cafried in a holder which is pulled forward so that the cartridge can be easily ejected and a new one inserted without any risk to the user, and without the use of any tools. The switch itself is a double-pole slow break type with silver contacts, and has passed all the appropriate tests scheduled in

The switch itself is a double-pole slow break type with silver contacts, and has passed all the appropriate tests scheduled in the various BSS. It should be mentioned that these switches are intended for use with A.C. supplies only, and are marketed under the trade name of MEM-AC. (The Midland Electric Manufacturing Co., Ltd., Reddings Lane, Tyseley, Birmingham, 11.)

CEMENT-LATEX FLOORINGS

The March issue of Rubber Developments contains an interesting article by Mr. W. H. Stevens on cement-latex compositions in general, with special reference to its possibilities for flooring. The properties of cement latex mixtures were investigated as far back as 1930, but not a great deal has been heard of them in this country, save under trade names, at any rate so far as the building industry is concerned. Briefly, a stabilized latex is used with cement instead of the gauging water, and this gives a paste which remains plastic for an hour or more, so that it can be worked with a trowel, thereafter drying out to give a reasonable hard but resilient surface. The approximate composition of commercial flooring mixtures is given, from which it appears that the rubber content is about 155 per cent. Figures are also given for floors laid in the Netherlands Indies and Malaya. It is also suggested that cement latex tiles could be produced quite cheaply, and might [337

TECHNICAL SECTION



MEM switchgear for a normal two wire AC supply with an earthed neutral, fused only on the live side to comply with the IEE wiring regulations.

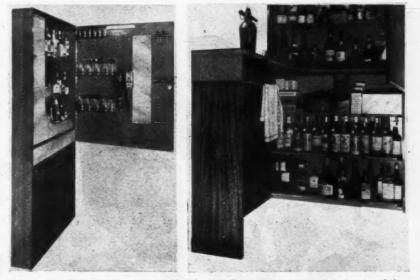
show a saving over the skilled labour necessary for laying a jointless floor. (The British Rubber Development Board, Market Buildings, Mark Lane, London, E.C.)

FLUES FOR GAS APPLIANCES

So far as architects are concerned the Nautilus flue block, which may be built so easily into a brick wall, has been in common use for housing work over a considerable period of years. Now Marley Tiles have just issued a useful booklet giving dimensions of all the standard single and double blocks and terminals, with some further drawings to show the blocks required for grouping flues into stacks. There are also some notes on the general method for estimating the number of blocks required. The manufacturers make it quite clear that these blocks are to be used for gas fires with outputs up to 16,000 BTU, as ventilating or warm air ducts, but NOT for solid fuel or large gas appliances. (The Marley Tile Co., Ltd., London Road, Riverhead, Sevenoaks, Kent.)

ADHESIVES FOR BUILDING

Under the general heading of Adhesives for Industy, the B.B Chemical Co., manufacturers of Bostik, have issued a booklet which contains some notes applicable to the building industry. Bostik B glazing com-



A bar which folds up into a very small space. Left: when the upper door is opened there is an ordinary cocktail cupboard. Right: the lower half also opens, and an L shaped counter swings down on top of it, forming quite a large bar with storage space for 50 glasses and 75 bottles, sink for washing glasses, etc.

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pound is used for waterproof window glazing, or as a general sealing mastic, while the C type adhesive is used for sticking rubber, linoleum, leathercloth, fabrics and similar materials, to metal or wood or other non-porous surfaces. Clear notes are provided on the most suitable methods of application. (The B.B. Chemical Co., Ltd., Ulverscroft Road, Leicester.)

Announcements

Mr. Desmond Donnelly, Editor of Town and Country Planning, has been appointed to the new post of Organising Secretary of the Town and Country Planning Association. The post of organising secretary is intended to replace the position of 'Director vacated by Mr. John Mumford on his appointment as Director of Public Relations at the Ministry of Town and Country Planning. Mr. Desmond Donnelly is 27, joined the staff of the Town and Country Planning Association at the end of 1946 as Research Oflicer, and became Editor of Town and Country Planning the following year. At the seventh annual general meeting of

At the seventh annual general meeting of the Federation of Master Builders held in Brighton, the following National Officers were elected for the current year:—National President, Sir Harry R. Selley, J.P.; Vice-Presidents, Alderman A. E. Allaway, J.P., Noel Landau, B.E.M., Councillor R. Colin Large, Alderman R. W. Ricketts and A. S. Sperring; Hon. Treasurer, H. A. Maxfield, J.P.

Messrs. G. T. Rackstraw Ltd. of Worcester are now engaged on the interior decorative woodwork and the furnishing of the first class smoke room of the new 34,000 ton Cunarder, the Caronia. Messrs, McInnes Gardner and Partners are the architects. This commission follows similar work executed by Messrs. Rackstraws on the Queen Mary and the Queen Elizabeth. A Rackstraw exhibition of "dollar-earning" period reproduction furniture, exclusively for export, is to be included in the furniture section of the British Industries Fair.

Two parties of schoolboys, one from Bramcote Hall, Notts, the other from Burton School of Arts and Crafts, have visited the Burton-on-Trent joinery works of Messrs. Sharp Bros. and Knight, Ltd. Among their greatest impressions were the making of a staircase in roughly ten minutes.

At the annual general meeting of the London Region of the Federation of Master Builders, the following Officers were elected for 1948: --London Region President, W. A. Mackridge, M.I.O.S., of W. M. Glendinning, Ltd.; London Region Vice-President, A. S. Charlton, of A. J. Charlton & Son; London Region Hon. Treasurer, F. G. C. Jackson, of Francis Jackson Development, Ltd. Counoil Representatives were also elected from each of the 37 areas set up in the London Region.

London Region. - Mr. G. Forsyth Lawson, L.R.I.B.A., has moved his offices to 30, Horse Fair, Banbury, Oxfordshire. Telephone number, Banbury 2785.

Mr. Reginald Woods, M.LE.E., Managing Director of the General Cable Manufacturing Co., Ltd., has been elected Chairman of the Independent Cable Makers' Association. Messrs. Durnford and Moore, L./A.R.LB.A., chartered architects, have moved their offices from Walter House, 418-422. Strand, to more spacious accommodation at No. 8, Clarges Street, Piccadilly, W.1. Telephone: Grosvenor 2781-2.

Grossenor 2781-2. Mr. Leslie W. Moore, who until recently was the Northern Area Manager in Great Britain of Vulcan Products Ltd. (makers of Glossex decorators' finishes, Velsurf oilbound water paint, etc.), has been appointed their Regional Manager in South Africa. He arrived in Johannesburg by air on March 31.

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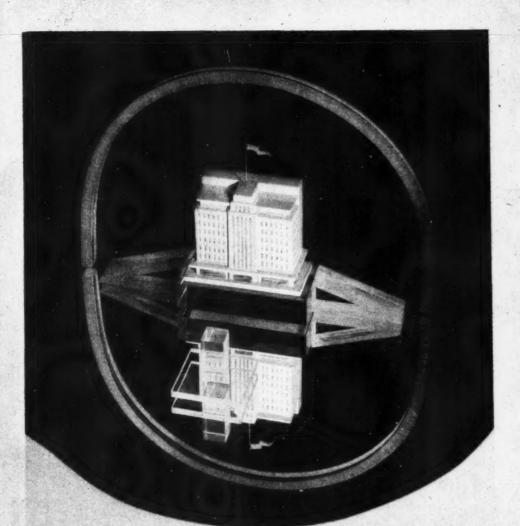
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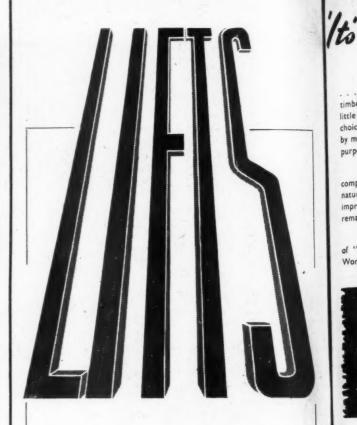
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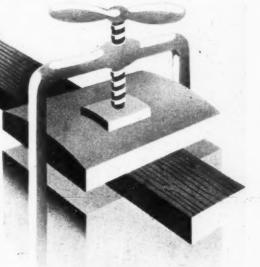
. . . eking out meagre supplies of timber, and there is unfortunately little prospect of improvement. Hobson's choice, maybe, but YOU can help the situation by making supplies adaptable to a wider variety of purposes this common-sense way.

"Tanalised" pressure-treated timber gives complete protection against all forms of rot, decay and natural wood-destroying elements. "Tanalised" timber is impregnated with chemical solution injected into the wood cells, but remains clean, non-oily and odourless, and can be painted or polished.

The life of all timber is greatly prolonged, witness the adoption of "Wolman "Tamafith" by such authorities as Ministry of Works, and British Railways.



The contractor may purchase timber either from firms carrying out the process, or any of 75 stockists. Treatment takes only a few hours, and the "Tanalised." timber is consigned direct to site.



IMPREGNATION PLANTS AT-LONDON WIDNES KING'S LYNN HULL

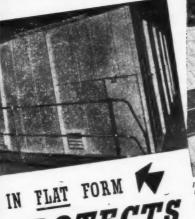
MANCHESTER DUDIEY WEST HARTLEPOOL GLASGOW

SOUTH SHIELDS

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OLDFIELD LANE, GREENFORD, MIDDLESEX. Tel.: WAXLOW 1051 Pte. B.X. Grams.: ENDURAFIRE, PHONE, LONDON





PROTECTS

MUNICIPAL POWER PLANT

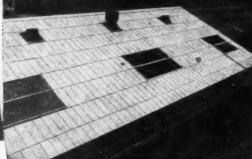


Illustration shows Control Room at Hornsey Power Station Panelled through-out with 3D⁻² Duronteel as a protection against fire.

SEND FOR DATA OF BOTH CORRU-GATED DURASTEEL ROOFING AND DURASTEEL 3DF2 FIRE PROTECTION PANELLING TO MANUFACTURERS :-

MUNICIPAL BUILDINGS

Illustration shows Durasteel Corrugated Roofing in course of erection at North Wilford Power Station. (Courtesy of Nottingham City Engineer).



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Telephone: RIVerside 2686-7.

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pints and quarts

This advertisement appears because we do not want anyone to forget how good IBECO is — and not because there is enough IBECO for all who would like to use it.

Day in, day out, we are struggling to find ways and means of satisfying the continually growing demand for IBECO; but—a quart of product simply can't be got from a pint of raw material.

Nevertheless, we don't give up trying. So—if you have good cause for using IBECO—let us know. We'll do our best.



-famous British waterproof Kraft paper, with a score of proofing uses in building and constructional work

C. DAVIDSON & SONS LTD. (DEPT. K67) BUCKSBURN ABERDEE 4

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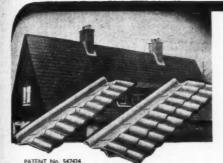
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this border's on the miraculous! There's no mistake - the border is the section showing how this patented lock principle rigidly joins sheets of metal without welding, riveting or bolting. It ranks as the first real advance in sheet metal construction since the invention of welding. Architects and builders will be mainly interested in its application to , roofing and partitioning problems, where it reduces weight and speeds assembly. rooting partitioni walling on the DCO SA Full particulars on request from : THOMAS SADLER, SONS & COMPANY 68, High Street, Croydon, Surrey Works: Shedfield, Southampton





HENDON PURLIN TILES are laid direct on rafters, spaced up to a maximum of 6' 0" centres. Easy to handle for speedy erection.



PATENT No. 379449 for roofs and sides of industrial buildings.

UNIVERSAL ASBESTOS CEMENT PRODUCTS

These products provide an effective answer to many problems confronting builders and industrialists today, and their efficiency is reflected in an ever mounting demand.

A limited number of roofing products are shown here but there are many others no less popular—in particular, Trofsec Sheets for roofing and side sheeting at 6' 6" purlin centres.

SBESTOS MFG. CO.LTD. CHANSITOR HOUSE. 37-38 CHANCERY LANE. LONDON, W.C.2. Telephone HOLBORN 7001-3 Telegrams : UNIASBESTO LONDON

NO PREPARATIONS

ERSAL



PATENT No. 563094 TILE BATTEN SHEETS are designed to carry clay or concrete tiles and

take the place of timber boarding and battens.



REINFORCED TROUGHING PATENT Nos. 371956 & 431803 for semi-flat roofs, having rafter pitch of 4° with purlins spaced at 6' 3" centres.

The copper tube need not be cut to dead-length. Simply by one and a half turns of the nut a perfect high pressure joint is made. We have tested Hanlo at a pressure of 5,200 lbs. per square inch and it did not fail.

ARE REQUIRED The length of thread in the nut is so designed that it is impossible to over-tighten the joint.

> All castings are made of gunmetal and are tested under excess pressure, after machining.



FOR USE WITH LIGHT GAUGE COPPER TUBE

LIVER

- All castings are gunmetal. A spanner is the only tool
- required.
- All fittings are made to Brit-ish standard specifications.

ROYAL

- Hanlo joints can be taken apart and remade any number of times.
 - Approved by the Ministries of Works and Supply.

Lovell & Hanson Ltd .

181, WOLVERHAMPTON STREET DUDLEY WORCESTERSHIRE London Office : 23, St. Philips' Road, Surbiton, Surrey.

The indentations of the Hanlo Double-

Grip Ferrule is en-

larged to illustrate

the principle of the

Joint-in actual practice it is controlled.

1

Telephone : Elmbridge 6262

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BUILDING

CLASSIFIED ADVERTISEMENTS

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

paper. Replies to Box Numbers should be addressed cars of "The Architects' Journal," at the address given above. None of the vacancies in these columns relates

None of the vacancies in these columns relates to a man between the age of 16 ans 50, incuisive, or a woman between the age of 18 and 40, inclusive, unleas he or she is excepted from the provisions of the Control of Engagement Order. 1947, or the vacancy is for employment excepted irom the provisions of that Order.

Public and Official Announcements

s lines or under, 16s.; each additional line, 1s. 6d. The incorrection desociation of Accurrects and Susveysous maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having s.aff vacancies. ADDRESS: 75, Earow PLACE. LONDON, S.W.1. THL SLOAME 5615. 991

LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN. Applications are invited for a number of posi-tions in the following grades: — PLANNING OFFICER. Grade III, £550 to

2700 700 a year. TECHNICAL ASSISTANT. 55s. a week to

TECHNICAL ASSISTANT. DOS. a were to 2580 a year. Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for posi-tions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fand. The planning work involved includes assist-ance in the detailed development of Reconstruc-tion Area schemes and the preparation of revised zoning plans.

ance in the detailed development of Reconstruc-tion Area schemes and the preparation of revised zoning plans. A knowledge of current town planning legisla-tion is desirable in all cases, and candidates for Grade III positions should possess architectural, surveying, or town planning qualifications. Application forms may be obtained from the Architect to the Council (P). County Hall, West-minater Bridge, S.E.1 (enclosing stamped addressed foolscap envelope). Returnable not later than ten days from this date. Curveworth UPRAN DISTRICT COUNCIL

 Bater than ten days from this date.
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 Canvassing diaqualifies. (360)
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 CUDWORTH URBAN DISTRICT COUNCIL.
 ENGINEER AND SURVEYOR'S DEPARTMENT OF ARCHITECTURAL ASSISTANT (GRADE IV).

 Applications are invited for the above appointment, in the Office of the Engineer and Surveyor to the Council, at a salary in accordance with A.P. & T. Division, Grade IV, of the National Scale of Salaries, £480-£525.

 The person appointed will be responsible for the preparation of plans, specifications, and bills of quantities for housing schemes, and for checking of Interim Valuations and settling up of final accounts for same.

 Housing accommodation will be provided for the successful applicant if married.

 Candidate should have considerable experience in this work. Applications, stating age, details of qualifications and experience, orgether with copies of three recent testimonials, should be sent to the undersigned. endorsed. "Architectural Assistant," not later than 12th April. 1948.

 C.M. PRATT, Solicitor, Clerk of the Council.

 5, Regent Street, Barnaley.

5, Regent Street, Barnsley. March, 1948.

5. Regent Street, Barnsley. 267 March, 1948. 267 CITY AND COUNTY OF THE CITY OF EXETER. Applications are invited for the appointment of manent staff of the City Architect's Department. The salary will be within A.P.T. Grade V. "Barney 2530 to 2570 per annum." Candidates should be Associated the ambers of the dynamic qualifications, and prefarence will be gene to those who have had considerable experi-ence in General Municipal Architectural work. The appointment will be subject to one month's notice on either side, and to the provisions of the Local Government Superannustion Act, 1937. The successful applicant will be required to pass and induction and salaries, full details and present appointments and salaries, full details of experience, and the carliest possible the when available, together with copies of accent the council or to the holder of any senior of the successful applicant will be required to pass and present appointments and salaries, full details of experience, and the earliest possible the when available, together with copies of accent testimonials, should be sen to H. B. Rowe, F.B.LB.A., A.M.I.Siruct.E. City Architect. 2, horner, and present appointments and salaries full details of experience, and the earliest possible to the sentention of the senter than 16th and the senter than 16th the senter than 16th and the senter than 16th the senter than 16th and the senter of the senter

C. J. NEWMAN, Town Clerk.

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Exeter. 24th March, 1948.

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ath. orms of application may be obtained from the ough Engineer and Surveyor, Town Hall. rd, and should be returned to the undersigned later than 19th April, 1948. anyassing, either directly or indirectly, will be iccurcible from the second sec Forms Borough Ilférd, a Lot later than 1944 Canvassing, either directly or inuncean a disqualification. K. F. B. NICHOLLS, M.A., *Town Clerk.* 500

COUNTY BOROUGH OF WEST HARTLEPOOL. Applications are invited for the following ppointments, on the staff of the Borough Archiapp

medical examination.

medical examination. Applications, stating age, qualifications, pre-vious and present appointments, details of ex-perience, together with copies of recent testi-monials. should be sent to S. M. Richmond. F.R.I.B.A., A.M.T.P.I., Borough Architect, Muni-cipal Buildings, West Hartlepool, not later than 19th April, 1948. Candidates are to state clearly the appointment for which application is made. ERIC J. WAGGOTT. West Hartlepool.

601

West Hartlepool. 2nd April, 1948.

Guildhall, Swansea. March, 1948.

2nd April. 1948. 601 2nd April. 1948. 601 COUNTY BOROUGH OF SWANSEA. BOROUGH ARCHITECT'S DEPARTMENT. QUANTITY SURVEYORS. Applications are invited for the foflowing appointments on the Established Staff in the Borough Architect's Department:--TWO SENIOR ASSISTANT QUANTITY SUR-VEYORS (Grade VI, A.P.T.). Salary, £555 to £650 per annum. The salary scale is that of the National Scheme of Conditions of Service. Applicants must be under 45 years or age unless in Local Government Service, and must be Pro-fessional Associates of the Royal Institution of Chartered Surveyors (Quantities Section). Candi-dates should have experience in the preparation of Bills of Quantities, Specifications and Estimates far Schools, Houses and Buildings of various types.

for Schools, Houses and Buildings of various types. The appointments will be subject to the pro-visions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The appointments may be terminated by one month's notice on either side. Forms of application may be obtained from the Borough Architect (Mr. H. T. Wykes, F.R.I.B.A.), Guildhall, Swanses. Applications, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed 'Senior Assistant Quantity Surveyor,' must be delivered to the undersigned not later than Tuesday, 20th April, 1948. Canvassing, directly or indirectly, will dis-quality. T. B. BOWEN,

T. B. BOWEN, Town Clerk.

March, 1948. 527 **EAST** ANGLIAN REGIONAL HOSPITAL BOARD, CAMBRIDGE. Applications are invited from Fellows or Associates of the Royal Institute of British Archi-tects for appointment as ARCHITECT to the Board, on a Salary of 21,360 in the scale £1,350 · 250 - £1,550. The successful applicant will be re-quired to advise the Board on architectural matters relating to hospitals and to carry out such other professional and administrative duties as may be directed. Applicants should have had considerable experience of architectural practice, especially in relation to hospital work. The appointment will be subject to the National Health Service (Superannuation). Regulations, 1947, and will be terminable by three months notice on either side. Applications, containing a brief statement of

notice on either side. Applications, containing a brief statement of age, qualifications and experience, and accom-panied by the names of three referees, should reach the Secretary, East Anglian Hegional Hospital Roard, 117, Cheaterton Road, Cambridge, not later than the 30th April, 1948. 588

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RHODESIA RAILWAYS. APPOINTMENT OF ASSISTANT AIGCHITECT. Applications are invited for the appointment on the permanent establishment of a Senior Assistant Architect, at a salary of 2640 p.a., rising to 21,000 p.a., in the Assistant Grade for Officers, with a cost-of-living allowance of 10 per cent. and children's allowance. Starting salary of the successful candidate will be at a figure of the successful candidate will be at a figure of the successful candidate will be at a figure of the successful candidate will be at a figure of the successful candidate will be at a figure of an architec-tural school recognised by the R.I.B.A., Exper-ence in hotel design and housing would be an advantage.

tural school recognised by the K.I.B.A. Experi-ence in hotel design and housing would be an advantage. Applications, stating age. training, experience, war service and qualifications, together with three references, should be sent by air mail. to reach the General Manager, Rhodesia Railways, P.O. Box 596, Bulawayo, Southern Rhodesia, not later than 8th May, 1948. The appointment is subject to the standing regulations of the Kailways, and on appointment to the permanent staff the successful applicant will be required to join the Contributory Pension Fund and the Medical Pund. Leave will be at the rate of 35 days for each year of continuous service, and an additional 30 days after every four years of continuous service. Such leave may be accumulated up to 175 days if desired, but not more than 140 days may be taken at any one time. The successful applicant will be required to undergo a strict medical examination. Tree staemship and railway travel will be pro-vided for the successful applicant, and free rai-way travel from the port of entry to Bulawayo for his family.

way travel from the port of entry to Bulawayo for his family. 52 MINISTRY OF EDUCATION. Applications are invited from men and womes between 23 and 40 years of age, who served in H.M. Forces or were employed in other work of national importance during the war. for ad-mission to courses of training as Full-time TEACHERS of Building and Alived Subjects in Colleges of Further Education or in Secondary Technical Schools. Applicants should have a University degree in Building or Allied Subjects or qualifications is a profession associated with Building, or, for Craft teaching, a Full Technological Certificate of the City and Guilds of London Institute in a Build-ing Craft. In certain crafts a Final City and Guilds Certificate may be accepted. Training will be given in the principles and students will be eligible for maintenance grants for the period of the course. Application should be made on Form 203 R.E. which may be obtained from the Secretary (Teachers R.E.I.). Ministry of Education. 142. COUNTY ARCHITECTS DEPARTMENT.

Lennox Gardens. London, S.W.1. 556 WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited from Associates of the appointment of an ASSISTANT COUNTY ARCHITECT on the permanent staff, at an inclusive salary of 2710 per annum, rising by annual increments of 225 to 2810 per annum. The appointment may be made at a commencing salary higher than the minimum of the scale. Applicants must have had wide experience of structural calculations and supervision of build-ing works.

structural calculations and super-sum Further particulars and forms of application should be obtained from F. R. Steele, F.R. L.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom completed forms of application must be submitted not later than the 20th April, 1946 T. C. HAYWARD, Clerk of the County Council. County Hall, Chichester.

County Hall, Chichester. 19th March, 1948.

Appointments - OUNTY ARCHITECT. Salary scale, 2910×225-21,060 p.a. Candidates must have had professional and administrative experi-ence in Local Government or Central Government Service. They must be members of the R.I.B.A. and preferably hold a University degree or equivalent in architecture. SENIOR ASSISTANT ARCHITECT. Salary scale, 2760×225-2860 p.a. Candidates must be members of the R.I.B.A. and have had a thorough training and experience in the carrying out of modern building works.

training and experience in the carrying out of modern building works. ARCHITECTURAL ASSISTANT, Grade V. Salary scale, £520-2570 p.a. Candidates must be fully qualified, and reference will be given to those having particular knowledge in the design and/or construction of Schools, Police or Health works.

and/or construction of Schools, Police or Healin ARCHITECTURAL ASSISTANT, Grade I. Salary scale, £330-£435 p.a. Candidates must have general Drawing Office experience, and preference will be given to those who are studying for Associateship of the R.I.B.A. Details of the above appointments and forms of applications may be obtained on applications for A. C. Mannder, County Architect, County Offices, Aylesbury, to whom applications must be delivered not later than 19th April, 1948. GUY R. CROUCH, Clerk of the County Council. County Hall, Aylesbury.

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BUCKS COUNTY COUNCIL. COUNTY ARCHITECTS DEPARTMENT. Applications are invited for the under-mentioned appointments :-DEPUTY COUNTY ABCHTEROF

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ppointments :-ONE ASSISTANT ARCHITECT. £635×£25-

£710 p.a One A ASSISTANT ARCHITEUT. £420×£15-

One ASSISTATE ARCANE AND A PROPERTY AND A PAGE DA. Applicants need not have had previous Local Government experience. Applications. together with three references, abould be addressed to the County Architect. County Hall, Hertford, to be received not later than by first post on 17th April, 1948. ECOLOGICAL OF HORNSEY.

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ARCHITECTURAL ASSISTANT (Temporary). ARCHITECTURAL ASSISTANT (Temporary). Grade V, A.P.T. Division of the National Scale, at a salary of £520-£570 per annum (including bonus). plus London weighting allowance, at present 220. ARCHITECTURAL ASSISTANT (Temporary). Grade I. A.P.T. Division of the National Scale, at a salary of £300-£435 per annum (including bonus). plus London weighting allowance, at present 220. Applications. ALC.E., M.I.Mun.E., Borough Engineer and Sarveyor, Hornsey Town Hall. N.S. not later than 2014 April, 1948. Candades in H.M. Forces should indicate the approximate date of their release. Canvassing, either directiv or indirectly, will disqualify. H. BEDALE.

H. BEDALE. Town Clerk.

Town Hall, Hornsey, N.8. 1st April, 1948.

Let April, 1948. 599 HARROGATE AND DISTRICT REGIONAL PLANNING COMMITTEE. APPOINTMENT OF JUNIOR PLANNING ASSISTANT. Salary, £330-215-2405 (plus war bonus, at present £59 165.) Applications are invited for the above appoint ment, in the Regional Planning Committee's Office in Harrogate, and is subject to :--(4) The provisions of the Local Government Superannuation Act, 1937. (6) The National Joint Council Scheme of Con-ditions of Service. (7) The approval of the West Riding County Council. 599

Concil. It is anticipated that the person appointed will be accepted on the staff of the West Riding County Council on the "appointed day" (1st

1948).

County Council on the "appointed day" (1st July, 1948). The appointment will be terminable by one month's notice on either side, and the successful examples of the required to pass a medical country of the required to pass a second the reprofessional function of the reprofessional function panet of the required to pass a second for the reprofessional function of the reprofessional function of the reprofessional function panet of the required to the regional function of the reprofessional function of the reprofessional function to the regional function of the reprofession for reference, should be sub-spitted to the Regional function of the reprofession of the reprofession of the reprofession of the reference for the reprofession to the reprofessional function of the reprofession of the reprofession of the reprofession of the reference of the reprofession o

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B. R. OSTLER, Acting Honorary Clerk.

Municipal Offices, Harrogate. 19th March, 1948. 598

LONDON COUNTY COUNCIL. HOUSING AND VALUATION DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Archi-tectaral Assistant in the Housing and Valua-tion Department, at salaries of up to £560 a year. Commencing salaries will be determined accord-ing to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per vent. of salary.

Superanniation contributions at the rate of 6 per cent. of salary. Successful candidates will be required to under-take work in connection with the design and de-velopment of housing schemes (cottages and multi-storey flats). Forms of application may be obtained from the Director of Housing and Valuer, the County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disgualifies. (473)

 addressed foolscap envelope required).
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 Canvassing disqualifies. (473)
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 COUNTY BOROUGH OF SMETHWICK.
 BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

 APPOINTMENT OF SENIOR ARCHITEC-TURAL ASSISTANT.

 Applications are invited for the above appointment, at a salary in accordance with A.P.T.,

 Grade V (£520-£570) per annum.

 The post is subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidate passing a medical examination, and to termination by one month's notice on either side.

 Applications, and to termination by one month's notice on either side.

 Applications, on form to be obtained from the Borough Engineer and Surveyor, Crancil House, Smethwick, accompanied by copies of two recent estimonials, should reach the undersigned not later than 24th April. 1948.

E. L. TWYCROSS, Town Clerk.

571

Council House, Smethwick. March, 1948.

March, 1948. 571 March, 1948. 571 HARROW URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPART. Applications are invited for the under-mentioned appointments, in the Department of the Engineer and Surveyor:— (a) ARCHITECTURAL ASSISTANT. Grade A.P.T., IV. Salary scale, £500-£545. Candidates should have had sound experience in general architectural work, particularly on schools and housing, but the work to be under-taken will be principally concerned with the maintenance aad repair of these and other Council properties.

properties. (b) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T., 111/V. Salary scale, £470-£545 per annum. Candidates should have had experience in the preparation of bills of quantities for the con-struction and maintenance of Council property; interim valuations for payments; measurement of variations and settlement of final accounts, as well as the preparation of cost statistics and estimates. estimates. (c) JUNIOR ARCHITECTURAL ASSISTANTS

(TWO). Grade A.P.T., I. Salary scale, £410-£455 per

Grade A.F.T. 1. Salary scale, 2410-2400 per annum. Candidates should have had good general train-ing and experience, and have reached the standard of the Intermediate examination of the R.I.B.A. The appointments will be subject to the pro-visions of the Local Government Superannuation Act, 1937; to the passing of a medical examina-tion; and to the National Joint Council Scheme of Conditions of Service. The Council is unable to offer any assistance in obtaining housing accommodation for the successful applicants. Forms of application can be obtained from the undersigned, to whom they should be returned not later than first post on Monday, 19th April, 1948.

1998. H. WELLS, Clerk of the Council. Council Offices, Harrow Weald Lodge, Harrow Weald. 573

Harrow Weald. 573 HIS MAJESTY'S COLONIAL SERVICE. ARCHITECTS are required by the Government of Nigeria. The appointments are on contract for one tour of 18 to 24 months in the first instance, with the possibility of renewal up to 7 years. Salary (inclusive of expatriation pay), £600 to £1.300 per annum, according to qualifications and experience. Candidates must possess the quali-fication of A.R.I.B.A., and preference will be given to those having experience in the design of modern school and hospital buildings. A diploma in Town Planning would be an advantage. advantage.

advantage. The terms of service include an outfit allow-ance of £60 on first appointment, free first-class passages each way each tour for the officer and, if married, for his wife, free medical attention and home leave on full pay at the rate of 7 days for each month of resident service Rent of Government guarters ranges from £75 to £90 per anum, acording to salary. Income tax is pay-able at low West African rates only. A gratuity of £25 for each period of three months' service is payable on satisfactory completion of the contract. Applicants should write at once to the Director

Applicants should write at once to the Director of Recruitment (Colonial Service), Colonial Office, 15, Victoria Street, London, S.W.1, stating age. professional qualifications and experience. 562

WORCESTERSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the following

Applications are invited for the following appointments:-(a) SENIOR PLANNING ASSISTANTS (TWO). A.P.T., Grade VI. The persons appointed will be engaged on the preparation of development plans, with particular reference to the areas of the county allotted to them. and must be competent to advise on the control of development plans, with particular control of development in those areas. Applicants must be Corporate Members of the Town Planning Institute, and previous experi-ence with a planning authority, and of Committees dealing with interim development will be con-sidered an advantage. (b) PLANNING ASSISTANT (ONE). A.P.T., Grade IV. The person appointed will be required to assist

(c) FLANMANG ASSISTANT (ONE). A.P.T., Grade IV. The person appointed will be required to assist a Senior Planning Assistant in the duties enumerated above. Applicants should have had previous experience in the work of a planning and interim development authority and professional qualifications by examination will be considered an advantage Each appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T., Grade VI, is £595 to £660, and in Grade IV, £480 to £525. Applications must be made on forms to be

1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T., Grade VI, is £595 to £660, and in Grade IV, £480 to £525. Applications must be made on forms to be obtained from the County Planning Officer. County Buildings, Worcester, and returned to him not later than 28th April. W.R. SCURFIELD. Clerk of the County Council. Size of the County Council. County Planning Officer. (Q235) DENBIGHSHIRE COUNTY COUNTY. COUNTY PLANNING OFFICER. The above Council invite applications for the appointment of Deputy County Planning Officer, a few parts of the few

CITY ENGINEER'S DEPARTMENT. CITY ENGINEER'S DEPARTMENT. APPOINTMENT OF TECHNICAL STAFF. Applications are invived for the following appointments:----(a) ASSISTANT ARCHITECT. A.P.T., Grade VI (£535-£600 per annum). (b) ASSISTANT ARCHITECT. A.P.T., Grade V (2460-£510 per annum). (c) ARCHITECTURAL ASSISTANT. A.P.T., Grade I (£330-£375 per annum). Plus cost-of-living bonus, which at present amounts to 23s. a wsek The appointment are subject to the Local Government superannation Act, 1937, terminable by one month's writen notice on either side, and subject also to the successful candidate passing satisfactorily a medical examination. Applicants should not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces). Candidates for (a) should be Associates of the Royal Institute of British Architects, and thoroughly experienced in the design and layout and preparation of working drawings for Com-mercial and Municipal buildings. Candidates for (b) should preferably be Associates of the Royal Institute of British Archi-texperience and be capable of preparing working drawings. Candidates for (c) should have had a good subject and preparison of the Royal Institute of British Archi-texperience and be capable of preparing working drawings.

experience and to target experience and to target <math>experience and the target <math>experiments. Candidates for (c) should have had a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the Royal Institute of British Architects. Annlications, on forms which can be obtained Annlications.

Architects. Applications, on forms which can be obtained from the City Engineer, Guildhall, Kingston-upon-Hull, accompanied by course of testimonials, are to be returned not later than 14 days after the insertion of this advertisement. Any applicant canvassing a member of the Council or Chief Official will be disqualified.--WM. MORRIS. M.In=t.C.E., F.S.I., City Engineer, 603

LONDON COUNTY COUNCIL. ARCHITECTURAL ASSISTANTS required in Chief Engineer's Department. Applicants should have good knowledge of construction and experi-ence in the preparation of sketch plans and work-ing drawings for alterations to institutional buildings. Rate of pay up to 1678. 6d. a week,

ence in the preparation of alterations in institutional buildings. Rate of pay up to 167s. 6d. a week, according to experience. Selected candidates will be superannuable. Application forms obtainable by sending stamped addressed foolscap envelope to the Chief Fingineer (quote 48/4), County Hall, Westminster Bridge, 8.5., returnable not later than 14 days after the appearance of this advertisement. Can-vassing disqualifies. (300). 561

Applications and the County Planning Staff :-
 (a) THREE PLANNING ASSISTANTS. A.P.T.,
 (b) TWO PLANNING ASSISTANTS. A.P.T.,
 (b) TWO PLANNING ASSISTANTS. A.P.T.,
 (c) Advantage.
 (c) Advantage.

Shire Hall, Warwick. 22nd March, 1948.

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 23nd March, 1948.
 556

 MANSFIELD AND DISTRICT JOINT PLANNING COMMITTEE.
 POINT PLANNING OFFICER.

 APPOINTAIRNY OF DEPUTY PLANNING OFFICER.
 Applications are invited for the appointment of Deputy Planning Officer to the above Committee, at a salary in accordance with Grade VIII of the A.P.T. Division of the National Joint Council's scale of salaries, vis., £685-£25-£760 (Con-solidated Scale).

 Applicants should have had considerable ex-perience in the preparation of Town and Country Planning Schemes for urban and rural areas, the coultrol of development, the practical application of the Town and Country Planning Acts and Orders, and the general administrative work con-meted with a Regional Planning Office. They should be a corporate Members of the Town Planning Institute, and an additional qualifica-tion will be an advantage.

 The successful candidate will/ be required to provide a motor car, for which an allowance will be made in accordance with the National Joint Connel's scale.

 The appointment will be subject to the National Joint Council's scale.

be made in accordance with the National Joint Council's scale. The appointment will be subject to the National Joint Council's Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, stating age, training, experience, qualifications, stating age, training, experience, qualifications, stating age, training, experience, qualifications, and present occupation, accompanied by not more than three testimonials, should be ent in appropriately endorsed envelopes to J. H. Barratt, Esc., M.T.P.I., Chief Planning Officer, Regional Planning Office, 76, West Gate. Manefield, Notta., not later than 14 days after the date of this advertisement. A. C. SHEPHERD. Clerk of the Joint Planning Committee, Carr Bank, Mansfield.

Clerk of the Joint Planning Committee. Carr Bank. Mansfield. 560 METGOPOLITAN BOROLGH OF WOOLWICH. APPOINTMENT OF ARCHITECTURAL ASSIS. LIN, CHEADE VI. Molications are invited for the appointment of Architectural Assistant. in the Borough Engineer on Grade VI of the A.P.T. Division of the normal Scales of Salaries, ris., 6515 per annum, risins to 6680 per annum. The appointment will be fore from time to time, to the provisions of normal Scales of Salaries, ris., 6515 per annum, risins to 6680 per annum. The appointment will be fore from time to time, to the provisions of normal bears of Salaries, ris., 6515 per annum, risins to 6680 per annum. The appointment will be fore from time to time, to the provisions of the tocal Government Superannation Act. 1937, and will be terminable by one month's notice on the R.B.A. or have an equivalent qualification of the K.B.A. or have an equivalent qualification of the R.B.A. or have an equivalent qualification of the state of the council, either directly or intervented, together with copies of hot more spinor due to sensor of the Council, either directly or intervented, together with copies of hot more spinor due to sensor of the council. Candi-tervented, together with copies of hot more intervented, together with copies of hot more spinor due to sensor of the Council. Candi-tervented to sensor of the council. Candi-tervented to sensor of the council. Candi-tervented to the council. Candi-tervented to sensor of the

Town Hall. Woolwich, S.E.18. March, 1948. 870

URBAN DISTRICT COUNCIL OF URMSTON. ENGINEER'S AND SURVEYOR'S DEPART-MENT. ARCHITECTURAL ASSISTANT. Applications are invited from Males or Females for the above permanent appointment, at a salary in accordance with Grade II of the Administra-tive, Professional and Technical Division of the National Joint Council Scales (£420×£15-£465) per annum.

National Joint Council Scales (£420×£15-£465) per anaum. Applicants should have received training in Architecture, Planning and Surveying. The appointment is subject to the Local Government Superannuation Act, 1937, and will be determined by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination. Applications, stating age, qualifications and ex-perience, disclosing whether or not the applicant is related to any member or senior officer of the Council, naming two referees. and endorsed "Architectural Assistant," will be received by the undersigned not later than 12 noon on the 19th April, 1948. L. WATKINS,

L. WATKINS, Clerk of the Council. Council Offices, Urmston.

CARDIGANSHIRE JOINT PLANNING COMMITTEE. COUNTY PLANNING DEPARTMENT. pplications are invited for the follow

COUNTY PLANNING DEPARTMENT. Applications are invited for the following appointments:— (4) SENIOR PLANNING ASSISTANT. A.P.T., Grade VII. £535×225-2710. The person appointed should have wide experience in the pre-paration of Town and Country Planning Schemes, with a sound knowledge of the relevant Acts and Orders. Applicants will be required to assist in the preparation of outline and development plans for the County, including character zoning and estate layouts for both urban and rural areas. Experience in supervision of staff is essential, and preference will be given to applicants who are Members of the Town Planning Institute or hold an equivalent qualification in Architecture. Engineering, or Surveying. It is desirable that the successful applicant shall possess and drive a DIANNING ASSISTANT (DESTRONT)

Engineering, or Surveying. It is desirable that the successful applicant shall possess and drive (b) PLANNING ASSISTANT (RESEARCH) (Male or Female). A.P.T., Grade II, 2420×215-2465. Applicants will be engaged on research work in connection with the preparation of the outline and development plan under the Town and Country Planning Act, 1947. Candidates should have had experience in the collection of industrial and other research data in relation to population changes, regional and economical geo-graphy, services and natural resources. Prefer-ence will be given to applicants who have a similar background of research experience. (c) DRAUGHTSMAN. General Division. Salary according to age, with maximum of £385 at 32 years. Applicants should be nest draughte-men and colourists, accustomed to Ordnance and other map, revision.

at 32 years. Applicants should be ness the and other map revision. (d) FILING CLERK (age not to exceed 25 years). Salary on General Division, according to 32 years, Salary on General Division, according to 32 years, enales at 16 years £135, rising to £245 at 22 years. Applicants should have had experience in general office routine, keeping of centre will be given to applicants with shorthand and typewriting experience. The popointments will be abbeet to the provisions of the Local Government Superannuation for the Local Government Superannuation for the National Joint Council's Scheme of conditions of Service, the passing of a satisfactory medical examines. The should give details of age, education, be able to the should give details of age, education, two recent testimonials should be submitted. Applications are insued. Applications are insued. Applications appointments should be submitted. Applications appointents should be submitted. Applications the testimonials should be submitted. Applications the the of the appointment endoraed on the envelope should reach the appointment endoraed not have rune the dot exceed the appointment of the of the appointment endoraed on the envelope should reach the appointment endoraed on the envelope should reach the appointment endoraed on the envelope should be submitted. Applications with the title of the appointment endoraed on the envelope should reach the appointment endoraed end the envelope should endoraed endoraed endoraed endoraed endor

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Cambrian Chambers, Aberystwyth. 24th March, 1948.

24th March, 1948. 572 CITY OF BIRMINGHAM. FIRST CONTRACT FOR. FIRST SECTION OF PROPOSED COLLEGES FOR TECHNICAL, COMMERCIAL AND ARE EDUCATION. GOSTA GREEN, BIRMINGHAM. APPOINTMENT OF CLERK OF WORKS. The Education Committee invite applications for the appointment of Clerk of Works for the above Contract. Applicants must have a thorough knowledge and experience of reinforced concrete substructure works, including piling, retaining walls, etc., together with normal superstructure works and engineering services. Applicants must also be versed in the setting out of Buildings, taking of levels, and be able to assist (if re-quired) in the measurement of work in all trades as executed. Salary will be according to qual-fiations and experience, and the appointment will be terminable by one month's notice on either ide. be side

DENBIGHSHIRE COUNTY COUNCIL COUNTY PLANNING DEPARTMENT. The above Council invite applications from suit ably qualified persons for the following appoint, ments to the staff of the County Planning Denartment

(a) ASSISTANT COUNTY PLANNING OFFICER, for the East Area Office at Wrexham, Grade VII. Consolidated salary, £635-£710 per

(a) ASSISTANT COUNTY PLANNING
 (b) FFICER, for the East Area office at Wrexham.
 Grade VII. Consolidated salary, £635-£710 per annum.
 Applicants must be Corporate Members of the Town Planning Institute, and in addition should possess a recognised qualification in Architecture, Engineering or Surveying. Experience in the preparation of planning, schemes for extensive urban and rural areas is essential. Applicants must also be fully conversant with current planning practice, including survey work and the control of development, and should be able to undertake responsibility for the control of staff.
 (b) TWO SENIOR COUNTY PLANNING ASSISTANTS (ARCHITECTURAL), one for the Headquarters Office at Ruthin and one for the East Area Office at Schemes. Grade V. Consolidated salary, £520-£570 per annum.
 Applicants must be Absociate Members of the Town Planning Institute, and in addition should possess a recognised qualification in Architecture. Applicants must be able to undertake the preparation of town and country planning schemes, and in particular detailed schemes for the redevelopment of built-up areas, neighbourhood units, and housing estates.
 (c) SENIOR COUNTY PLANNING ASSISTANT (DEVELOPMENT CONTROL), for the East Area Office at Wrexham. Grade V. Consolidated salary, £520-£570 per annum.
 Applicants must be Associate Members of the Town Planning Institute, and there things being equal, preference will be given to those who had an additional qualification in Architecture.
 Mount Planning Institute and ruta lareas, and posses a sound knowledge of the statutory provisions in connection therewith.
 (d) COUNTY PLANNING ASSISTANT, for the East Area Office at Wrexham. Grade II. Consolidated salary, £450-£450 per annum.
 Applicants must be Associate Members of the Town Planning Institute and ruta lareas, and posses a sound knowledge of the statutory provisions in connection therewith.

paration of statutory planning schemes for urban sad/or rural areas. Additional experience in basic survey work will be deemed to be an advantage. (e) SURVEYOR AND DRAUGHTSMAN, for the Headquarters Office at Ruthin. Grade II. Consolidated salary, £420-£465 per annum. Applicants must be competent surveyors and expert draughtsmen, and be able to undertake the revision of Ordnance survey maps and the pre-paration of regional survey and planning scheme maps. Previous experience in Ordnance survey work is essential. (f) THREE DRAUGHTSMEN, for the Head-quarters Office at Ruthin and the East Area Office at Wreatham. Miscellaneous Division. Grade II. Consolidated salary, £35-£420 per annum. Applicants must be expert draughtsmen and colourists, and should be able to undertake the preparation of perspective drawings. The salaries are consolidated to include cost-ot-living bonus. The appointments will be subject to the terms and conditions of service applying to the daministrative, technical and clerical officers of the County Council, and will be terminable at the required to pass a medical examination, and will be subject to the provisions of the Local Government Superannuation Act. 1937. Applications, stating age, whether they wish to be considered for more than one appointment Applications, stating age, whether they wish to be considered for more than one appointment Applications, sust be sent to me, the under-signed, qualifications, present position and salary, previous positions, and full details of experience obtained, accompanied by copies of three recent testimonials, must be sent to me, the under-signed, qualifications, present position and salary, previous positions, and full details of experience obtained, accompanied by copies of three recent testimonials, must be sent to me, the under-signed, qualifications, present position and salary, previous quistest positions, due than one appointment Applications, sust be sent to me, the under-signed, suitably endorsed, by

County Offices, Kuthin, Denbighshire.

County Offices, Ruthin, Denbighanire. 507 BOROUGH OF REIGATE. APPOINTMENT OF ARCHITECTURAL ASSISTANT. ASSISTANT. Applications are invited for the appointment of Architectural Assistant on the staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade LV of the A.P.T. Division of the National Scale of Salaries (2480-2525 per ence in connection with the design of buildings and estate development, and the conversion of existing properties into flats. The appointment is subject to the provisions of the Local Govern-ment Superannuation Act, 1937, and to the pas-ing of a medical examination. Forms of apsi-fucation may he obtained from Mr. George G. Surveyor, Town Hall, Reigate. Applications, endorsed "Architectural Asis-tant," and accompanied by copies of three recent testimonials. must reach the undersigned not later than the 17th April, 1948. BERER DAVIES.

HEBER DAVIES. Town Clerk.

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Town Hall. Reigate. March, 1948.

1948. E. L. RUSSELL, Chief Education Officer. The Chief Education Officer, City of Birmingham, Council House, Margaret Street, Birmingham, 3. 553

lviii

Applications, stating age, qualifications, experi-ence and salary required, accompanied by copies of three recent testimonials, should be submitted to the undersigned not later than 19th April,

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St. Peter's Street, St. Albans, Herts.

April, 1948. 590

April, 1948. 550 ASSISTANT QUANTITY SURVEYORS are argently required by the Admiralty for tem-porary appointments overseas at salaries ranging form £475-5750 (consolidated), according to age and experience, plus Colonial allowance appro-priate to the station. The normal period of service overseas is 3 years, but further employ-ment in the U.K. may be offered after completion of tour. Application for these vacancies should be made to Ministry of Labour and National Service. Technical and Scientific Register. Room 377, York House, Kingsway, London, W.Cz. guoting reference J.496/47. 233A3(20). 578

 3333(20).
 768

 CAMBRIDGESHIRE COUNTY COUNTY
 COUNTY PLANNING DEPARTMENT.

 COUNTY PLANNING DEPARTMENT.
 Applications are invited for the appointment

 of TWO PLANNING ASSISTANTS. The salary
 for these appointments will be in accordance with

 frade A.P.T., V, of the National Scale of Salaries
 (2460-2510 per annum), plus cost-of-living bonus.

 Applicants should have a broad general know hege of modern planning technique.

 The appointments are subject to the provisions of the Local Government Superannuation Act, 1971, 2011,

CHARLES PHYTHIAN, Clerk of the County Council.

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H. HOPKINS, Town Clerk

BOROUGH OF PORT TALBOT. APPOINTMENT OF SENIOR ARCHITEC-TURAL ASSISTANT. Applications are invited for the above appoint-ment, in the Borough Engineer's Department, within the range of A.P.T. Grades VI and VII, £755-£650, plus bonus £59 16s. according to ex-perience and qualifications of applicants. Applicants must be Associate of the R.I.B.A. The appointment is subject to the passing of a medical examination and the provision of the Local Government Superannuation Act, 1937. Age limit 45 years, plus service H.M. Forces. The National Scheme of Conditions of Service will apply.

Applications of bervice will apply. Applications, on forms to be obtained from the undersigned, to be returned with three testi-monials, so as to be received not later than noon, 23rd April, 1948, endorsed "Senior Archi-tectural Assistant." WEING DAVIES

W. KING DAVIES, Town Clerk.

PHILIP B. DINGLE, Town Clerk.

Town Hall, Manchester, 2. 30th March, 1948.

The GLASGOW SCHOOL OF ARCHI-South March. 1948. THE GLASGOW SCHOOL OF ARCHI-TECTURESHIP IN ARCHITECTURE. Applications are invited for the post of SENIOR LECTURER in the Department of Architecture in the Royal Technical College. Glasgow. Salary, £675-£25-£875. Position on the scale according to qualifications and experience. Further particulars and forms of application may be obtained from the Secretary of the College. 566 College.

The obtained from the Secretary of the Colege. COUNTY OF CORNWALL. APPOINTMENT OF PLANNING STAFF. Applications are invited for the post of ASSIS-TANT PLANNING OFFICER (ARCHITECT), in the County Planning Department of the above-named Authority. The salary will be on a grade of £555×220-£600 (Grade VI of the A.P.T. Division), to which a cost-of-living bonus of £59 16s. a year is at present added, pending con-solidation of bonus with salary. The person appointed will be expected to provide a motor car for necessary travelling, for which a mileage allowance will be paid. Candidates should be Associates of the Royal Institute of British Architects, and preferably also Associate Members of the Town Planning lnstitute. The successful candidate will be engaged in general on archi-tectural control of development throughout the Coordinate the control of the external appearance of buildings, including a specific control in im-portant individual cases. He- will also be re-quired to undertake work in connection with the preservation of buildings of historic or archi-tectural interest and to assist in the prepara-tion of the Survey and Development Plan in regard to third dimensional planning. The appointment is subject to the provisions of the Local Government Superannuation Act. 1937, and the successful candidate will be required to pass a medical examination. Canvassing, either directly or indirectly. will disqualify, and every candidate must disclose in his application whether to his knowledge he is related to any member of the Council er to the holder of any senior office under the Council. Applications, together with the names of three persons to whom reference may be made should be addressed to the Councy Planning Officer. County Hall, True (from whom further par-

persons to whom reference may be made should be addressed to the County Planning Officer, County Hall, Truro (from whom further par-ticulars may be obtained), not later than the 26th April, 1948.

E. T. VERGER, Clerk of the County Council. Connty Hall. Truro. 10th March, 1948. 557 Architectural Appointments Vacant

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

A SSISTANT required in Staff Surveyors to be a survey for maintenance, dilapida-tions, schedules, pricing valuations, etc.; A.R.I.C.S. preferred; £500 p.a. Write Box 538.

WELL-KNOWN Transport Organisation re-quire services of ARCHITECTURAL ASSISTANT, well versed in light industrial con-struction, and able to carry job through to final account with minimum of supervision; salary, £600 p.a. Write, with full details of experience, to Box 537.

A BCHITECT and Surveyor to Large Indus-trial Organisation, with Head Office in London, requires the services of a PRINCIPAL ASSISTANT; applicants should have wide ex-perience in design and construction of all chasses of buildings, particularly light industrial Garages, and be capable of carrying out schemes from sketch plans to final account, including speci-fications, obtaining consents, licences, a know-ledge of present-day prices, dilapidations and ability to supervise staff is necessary; experience in management of property would be an ad-vantage; F.R.I.B.A. or F.R.I.C.S. preferred; salary £1,000, or according to qualifications; age not over 46. Write, giving full details of ex-perience, in chronological order, to Box 536.

A RCHITECTURAL ASSISTANTS, preferably qualified and with experience of industrial buildings, are required by a public utility com-pany in London; salary according to qualifica-tions and experience. Apply Box 535.

A BCHITECTURAL ASSISTANTS required for Liverpool office; sound training and ex-perience essential; administrative ability and experience an asset; salary commensurate with qualifications; give full particulars. Box 530.

YOUNG ARCHITECT (age about 30) required for West Africa by large firm Building and Civil Engineering Contractors; must be qualified; previous overseus experience not essential, but must be adaptable; good practical knowledge re-inforced concrete design essential; free passage and accommodation; good salary payable to right man. Apply in writing, giving full details of age, qualifications and experience, etc., to Box 577.

THE Plastics Division of Imperial Chemical Industries, Ltd., require urgently a SENIOR ARCHITECTURAL ASSISTANT, for their Head-quarters at Welwyn Garden City; some industrial experience essential. Write to Staff Manager, Plastics Division, I.C.I., Ltd., Black Fan Road, Welwyn Garden City, Herts, quoting AJ/15. 574

A SSISTANT required in Private Practice; good A experience in cost of works house rebuild-ing, general war damage, specifications, working drawings, and supervision of work is essential. Apply Clark, 44, Great Russell Street, W.Cl., Phone: MUS, 4400 & 6050.

SENIOR ASSISTANT, with experience of general office practice, surveys, etc., re-quired to take charge of Drawing Office; A.R.I.B.A. not essential; good salary and con-ditions of work; car an advantage. Apply Lavender, Twentyman & Percy, F./A.R.I.B.A., 2, Waterloo Road, Wolverhampton. 563

SOUTH AFRICA.—Required for Cape Town ex-perienced ARCHITECTURAL DRAUGHTS. MEN by well established firm of Architects, with large general and housing practice; long term employment, with good prospects, to suitable applicants; state age, experience, qualifications, married or single, and other relevant particulars; successful applicants required to leave for South Africa earliest possible. Write Box "LCF." c/o 95, Bishopsgate, London, E.C.2.

JUNIOR ARCHITECT'S ASSISTANT required (Inte, R.I.B.A. standard) for busy Archi-tect's drawing office; must be able to prepare working drawings and carry out measuring surveys, and have good knowledge of building construction; good salary offered. Apply Bernard Gold & Partners, 4 and 5, Grosvenor Street, London, W.L. 533

A RCHITECTURAL ASSISTANT required im-mediately, in Architect's department, of the London Co-operative Society. Ltd.; applicants should preferably have had extensive experience in the design of commercial and industrial build-ings; the successful candidate will be required to pass a medical examination, and after a short probationary period will be eligible for member-ship of the Superannuation Fund; salary 2480, inclusive of war bonus. Reply, stating age, technical qualifications, and full details of nast experience and positions held. to the Staff Manager, London Co-operative Society, Ltd., 54, Maryland Street, Stratford. E.15

JUNIOR ASSISTANT required for EEN KEEN JUNIOR ASSISTANT required for must be capable of doing working drawings from Architect's rough aketches, surveying and level-ling; must be neat and accurate. Reply. stating age, experience, and salary required, to Hox 575.

WANTED URGENTLY.-Pully qualified Office in a South Lancashire town; good prospects and possibility of early Partnership. Apply-to Box 548.

A SSISTANT required; capable draughtsman, working drawings, defails, specifications, schedules and surveys. Apply Clark, 44, Great Russell Street, W.C.1. 'Phone : MUS. 4400 & 0500.

A RCHITECTURAL ASSISTANT required im-mediately; must be good draughtsman, with good knowledge of building construction; good prospects.-Apply. giving particulars and salary required, to Box 595.

Two TWO SENIOR ARCHITECTURAL ASSIS-TANTS required for working drawings for industrial buildings; first-class draughtsmanship essential. Apply, with drawings, to Howard Leicester & Partners, 21, Bloomsbury Square, London, W.C.1. 594 SENIOR ARCHITECTURAL ASSIS-

SENIOR ASSISTANT QUANTITY SUR-VEYORS required for service in the Middle East to join large established Civil Engineering Contractors' staff; age preferably under 40; good salary and allowances; contract for duration of 77 months. with opportunity of extension.— Please give full details of age, qualifications, etc., to Box 596.

Architectural Appointments Wanted

A RCHITECTURAL ASSISTANT, at present serving with H.M. Forces in London district, but due for release early June, requires position in office in London area; 5 years' school and office experience. Box 63.



A RCHITECTURAL ASSISTANT (26) requires appointment; experienced in all types of work: sketches, working drawings, details and specifications; supervision of contracts and staff; salary by arrangement. Box 61.

A RCHITECTURAL ASSISTANT requires job in Sussex (or N. Border); 5j years' site and office work, and 5j years in Royal Engineers; experience mainly domestic. but would welcome other work; interested in agricultural design, and has good knowledge of farming; please give details. Box 62.

A RCHITECTURAL ASSISTANT (30), keen and ambitious, seeks position. with prospects; preferably in or near London; 14 years' experi-ence, sketch schemes to working drawings, etc., of various projects. Box 60.

A RCHITECTURAL DRAUGHTSMAN, Pro-bationer R.I.B.A., 3 years' experience in builders' drawing office, and 5 years' training, requires, permanent position as Assistant to Archiwell-established practice; preferably in atherhead district. Please write, stating Epsom-Leatherhead district. salary, etc., to Box 65.

A SSISTANT ARCHITECT (31), 14 years' varied A experience, desires position in London or Southern England. Box 64.

Other Appointments Vacant

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

DRAUGHTSMAN with Architectural training for Exhibition Designing and Detailing. David Esdaile & Co. Ltd., 30, Stannary Street. Kennington, S.E.I. REL 1666. 1096

REPRESENTATIVE required, with connection amongst Architects, Interior Decorators, and High-Class House Furnishers, as Part-Representa-tive of Mirror and Glass Furniture Manu-facturers; good commission and expenses. 'Phone, write or call, M. Shavelson, 57, Flower and Dean Street, E.1. 585

MANAGER for Joinery Works, South London; ence, character, a good record, and ability to accept responsibility for a busy works producing wide range of joinery; must be energetic, keen, and resourceful; replies treated with strict con-fidence; state salary required, present position, age, and previous positions. Box 583.

A PPLICATIONS are invited for the post of BUILDING MANAGER, in an established from of Civil Bngineering Contractors; applicants should not be more than 45 years of age, and have had a life-time experience in the building trades. Box 576.

Services Offered 4 tines or under. 2s. 6d.; each additional line. 1s.

CENTLEMAN, with extensive experience in personal connection with Architects, Surreyons and Local Authoritics, seeks appointment with progressive company desiring experienced repre-sentation. Box 54.

YOUNG free lance DESIGNER-DRAUGHTS. MAN, in London, offers his services for Exhibition Stand detailing, etc.; quick and efficient service. Box 521.

PART-TIME Work required on sketch plans, working drawings, etc.; young architect; confidence guaranteed. Box 586.

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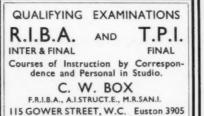
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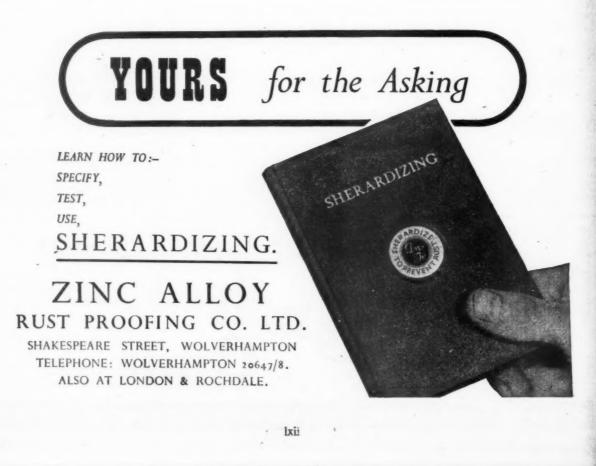




Alphabetical Index to Advertisers

	PAGE	the second se	PAGE		PAGE
Accrington Brick & Tile Co., Ltd		English Joinery Manufacturers' Assoc		McCarthy, M., & Sons, Ltd.	TAUL
Adams, Robert (Victor), Ltd.	Tiil	Etchells, Congdon & Muir, Ltd	xlviii	Merchant Trading Co., Ltd., The	
Allied Guilds	lxi	Ferrocon Engineering Co., Ltd		Metallic Seamless Tube Co., Ltd.	
Anderson Construction Co., Ltd.		Finch, B., & Co., Ltd		Metropolitan-Vickers Electric Co., Ltd.	XXVII
Ascot Gas Water Heaters, Ltd		French, Thomas, & Sons, Ltd		Mills Scaffold Co., Ltd.	
Associated British Oil Engines Co., Ltd.		General Cable Manufacturing Co., Ltd		Midland Woodworking Co., Ltd.	ii
Austin Hall Group of Companies, The		Gray, J. W., & Sons, Ltd.		Moler Products, Ltd.	
Automatic Telephone & Electric Co., Ltd.		Griffiths Bros. & Co., Ltd.		Morris Howbort Itd	lii
Baldwin, Son & Co., Ltd.		Gyproc Products, Ltd.	APPENDING REALING	Morris, Herbert, Ltd.	
	11			Morris, M. A., Ltd.	
Barralets, Ltd.	11	Hall, J. & E., Ltd.	X	Parnall, George, & Co., Ltd.	xlvii.
Bayliss Kenton Installations, Ltd.		Hamilton Photo Print Service, Ltd		Patchett & Co., Ltd.	
Birmabright, Ltd.	XXX	Hammill Brick Co., Ltd., The		Philip Flooring Co., Ltd.	xliii
Blackburn, Thomas, & Sons, Ltd		Hammond & Champness, Ltd	XXXIV	Pritchett & Gold & E.P.S. Co., Ltd	
Bolton Gate Co., Ltd.	111	Harper, John, & Co., Ltd.	xl	Prodorite, Ltd	xii
Booth, James, & Co., Ltd.		Harris & Sheldon, Ltd.	xxxiii	Ruberoid Co., Ltd.	xix
Booth, John, & Sons (Bolton), Ltd	Sandar and a strength	Harvey, G. A., & Co. (London), Ltd	iii	Sadd, John, & Sons, Ltd	xvii
Box, C. W	lxi	Henderson, P. C., Ltd.		Sadler, Thos., Sons & Co., Ltd	liii
Boyle, Robert, & Son	liv	Henderson Safety Tank Co., Ltd		Sankey, J. H., & Son, Ltd.	ш
Braby, Fredk., & Co., Ltd.		Hickson's Impregnation Co.	xlix	Santon, Ltd.	
Braithwaite & Co., Engineers, Ltd		Hillier, L. W.		Secomastic, Ltd.	
Bratt Colbran, Ltd	xxiii	Higgs & Hill, Ltd.	xxii	Scaffolding (Great Britain), Ltd.	xly
Briggs, William & Sons, Ltd	vii	Hincks, H. L.		Sealocrete Products, Ltd.	XIV
British Gas Council		Hollway, W. F., & Brother, Ltd.		Service Electric Co., Ltd.	1
British Industries Fair	v	Hope, Henry, & Sons, Ltd.	xlii	Shaffer Jamon Ltd	
British Insulated Callender's Cables, Ltd.	xxxii	Huntley & Sparks, Ltd.	lxi	Shaffer, James, Ltd.	
British Ironfounders' Association	iv	Hurseal, Ltd.		Sharman, R. W., Ltd	lxi
British Thomson-Houston Co., Ltd., The	7.4	Imhof, Alfred, Ltd.	xiv	Shires & Co.	liv
			-111	Smiths' Fireproof Floors, Ltd	
British Trane Co., Ltd.	12.00	Imperial Chemical Industries	xiii	Somerfeld, Ltd., K. J. & A.	xii
Bryce White & Co., Ltd.	liv	Industrial Engineering, Ltd.	xxi	Spiral Tube & Component Co., Ltd., The	
Bull Motors (E. R. & F. Turner), Ltd	xliv	Insulite Products Corporation, Ltd	and the second sec	Spooners	11
Camelon Iron Co., Ltd.	xviii	International Correspondence Schools,		Sundeala Board Co., Ltd.	l <u>s</u>
Cargo Fleet Iron Co., Ltd.	XXXV	Ltd.	lxi	Sutcliffe, Speakman & Co., Ltd	XXXVIII
Cattle, R., Ltd.	lxiii	Jenkins, Robert, & Co., Ltd.		Tentest Fibre Board Co., Ltd	
Clark & Eaton, Ltd., James	lii	Johnson & Phillips, Ltd.	xxxix	Tilyard Tiles, Ltd	
Clarke & Vigilant Sprinklers, Ltd	lxi	Kingfisher, Ltd.	XV	Troughton & Young (Lighting), Ltd	ix
Colt. W. H. (London), Ltd.		Kwikform, Ltd.		Tudor Accumulator Co., Ltd.	liv
Copper Development Association	xvi	Lacrinoid Products, Ltd.	xxxi	Tungam Sales Co., Ltd.	XX
Crabtree, J. A., & Co., Ltd		Laing, John, & Son, Ltd.	lxiv	Turners Asbestos Cement Co., Ltd	xxiv
Crittall, Richard, & Co., Ltd.	xxvi	Leatherflor, Ltd.	Ixiii	Uni-Seco, Ltd.	xlviii
Davidson, C. & Sons, Ltd.	11	Legrand, Sutcliffe & Gell, Ltd	liii	United Paint Co., Ltd., The	WIATE W
Dreadnought Fireproof Doors (1930), Ltd.	XX	Lever, James, & Son, Ltd		Universal Asbestos Mfrg. Co., Ltd	lv
Dunbrik, Ltd.	lii	Linealux, Ltd.	lii	Val de Travers Asphalte Paving Co., Ltd.	IV
Dunlop Rubber Co., Ltd.	XXV	Lloyd Boards, Ltd.		Versil, Ltd.	
Durasteel Roofs, Ltd.	xlix	Loft Ladders, Ltd.		Vulcanite, Ltd.	XXXVI
Duresco Products, Ltd.	xi	London Brick Co., Ltd.	xxviii		
Edgar, Wm., & Son, Ltd.		Lovell & Hanson, Ltd.	lv	Walker, Crosweller & Co., Ltd.	XXXVI
Educational Supply Association, Ltd		Lysaght, John, Ltd.		Wardle Engineering Co., Ltd., The	
Efril Sales Organisation	xxxiv	Mallinson, William, & Sons, Ltd.	xlvi	Warerite, Ltd.	viii
	lxi	Manlow Wile Co. 14d		Waring & Gillow, Ltd.	XXXVII
Ellis School of Building		Marley Tile Co., Ltd.		Wellington Tube Works, Ltd.	
Ellison, George, Ltd.	lxi	Matthews & Yates, Ltd	xviii	Williams, John, & Sons (Cardiff), Ltd	
Empire Stone Co., Ltd.	vi	McArd, Robt., & Co., Ltd	xxix	Zine Alloy Rust Proofing Co., Ltd	. Ixii
Then Annalate					20

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages Ivi, Ivii, Ivii, Ivii, Ix, Ix and Ixi.







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