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

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[Vol. 105 THE ARCHITECTURAL **PRESS** Editorial: Thirteen Queen Anne's Gate, Westminster, S.W.1. Phone: Whitehall 0611 Subscriptions and Advertising: Forty-Five The Avenue, Cheam, Surrey. Vigilant 0087-9.

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Registered as a Newspaper

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

IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 3158
ICE IEE IES IGE IHVE	Institution of Civil Engineers. Great George Street, S.W.1. Institution of Electrical Engineers. Savoy Place, W.C.2. Illuminating Engineering Society. 32, Victoria Street, S.W.1. Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. Sloane 8606 Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.
IIBD	Victoria 0146/7 Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.I. Euston 2450
ILA IOB IRA ISE LIDC	Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783 Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197 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
LMBA MARS MOA MOE MOH MOLNS MOS MOT MOTCP	London Master Builders' Association. 47, Bedford Square, W.C.1.  Museum 3891 MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. Park 7678 Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.  Ministry of Education. Belgrave Square, S.W.1.  Ministry of Health. Whitehall, S.W.1.  Ministry of Labour and National Service. St. James's Square, S.W.1.  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
MOW NAMMC	Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611 Natural Asphalte Mine-Owners and Manufacturers Council.
NAS NBR NCBMP	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.
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street,
NFBTO	W.1. Langham 4041 National Federation of Building Trades Operatives. 8, Roseberry Houses, Breams
NFHS NHBRC	Buildings, E.C.4 Holborn 1881 National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/23 National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1.  Museum 1264
NPL NRIAD	National Physical Laboratory. Head Office, Teddington. Molesey 1380 National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
PEP PWB	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245 Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
RCA RIAS	Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9936 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322
RIB RIBA RFAC RS RSA RSI SCR	Rural Industries Bureau. 35, Camp Road, Wimbledon. S.W.9. Royal Institute of British Architects. 66, Portland Place, W.1. Royal Fine Art Commission. 6, Burlington Gardens, 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. Society for Cultural Relations with the USSR. 98 Gower Street, W.C.1.

School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery 5313

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

Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2

Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.

Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988

E.C.1. Metropolitan 8344

Temple Bar 5006

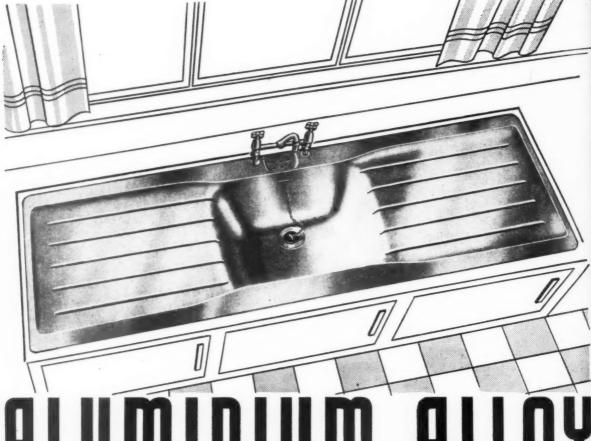
City 1476

City 6146 (3 lines) Victoria 8815

Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand,

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

Timber Development Association. 75, Cannon Street, E.C.4.



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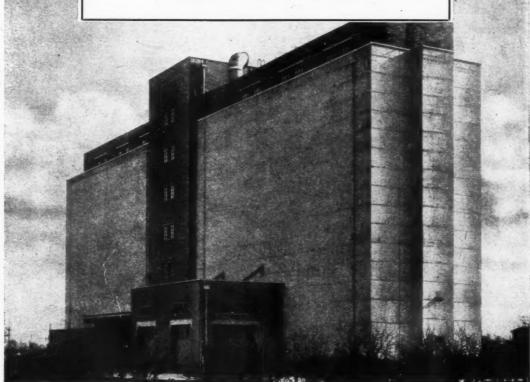
Issued by the Federation of Coated Macadam Industries,



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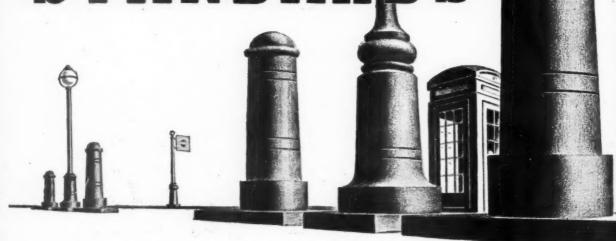
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Mr. Derek L. Bridgwater, F.R.I.B.A., is Consultant to the Department.

Enquiries should be addressed to the building uses department, British cast iron research association, alvechurch, birmingham

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### Matching men and jobs

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Serving industry, commerce, and the professions; enrolling men and women from the Services and from civilian occupations; interviewing, "screening," classifying, and registering them—the Regional Appointments Offices have the important task of matching men and jobs in post-war Britain.

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READING: 23 Valpy Street
WINCHESTER: Christchurch Road

BRISTOL: Lyndale Hotel, Berkeley Square

BIRMINGHAM: 239 Broad Street

NOTTINGHAM: Commerce Chambers, Upper Parliament Street

Leeds: Greek Street Chambers, Greek Street

MANCHESTER: Commercial Chambers, 47 Corporation Street

LIVERPOOL: Cotton Exchange, Bixteth Street NewCastle-on-Tyne: 153 Barras Bridge

EDINBURGH: 5 Rothesay Terrace GLASGOW: 450 Sauchiehall Street CARDIFF: 8 Cathedral Road

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Issued by the Ministry of Labour and National Service, Appointments Department, 1-6 Tavistock Square, London, W.C.1

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of our future plans. In every territory, whether swept by the tide of war or not, there is an accumulated potential demand for hundreds of products fabricated from steel, so that directly and indirectly the export markets will receive the fruits of our production. Policies directed towards international economic agreement in the terms and spirit of the Atlantic Charter will receive our complete support. With all this the magnitude of the task remains, but its importance is so great that the utmost efforts, understanding and goodwill of every citizen of the nation are inescapable pre-requisites to achieve success.



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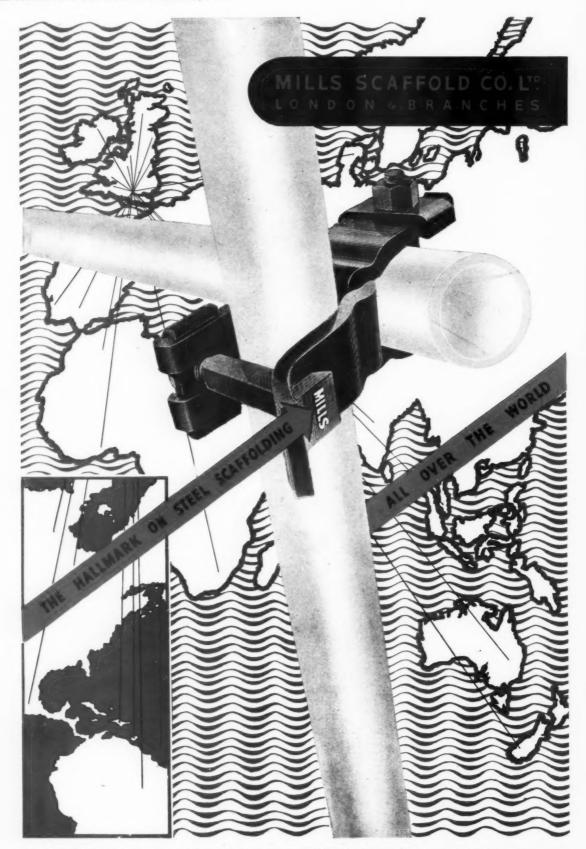
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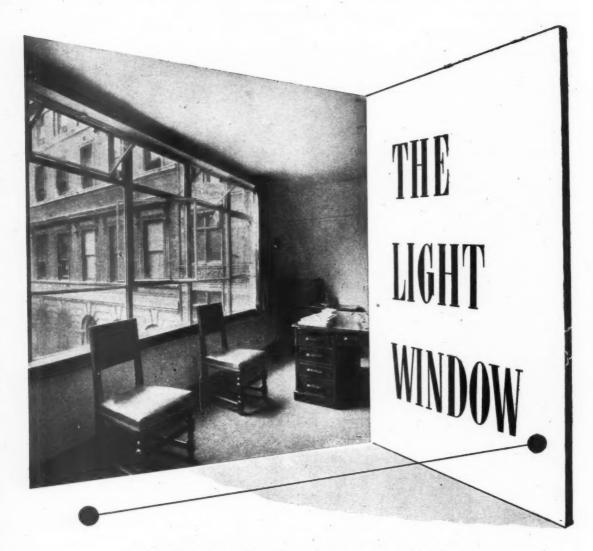




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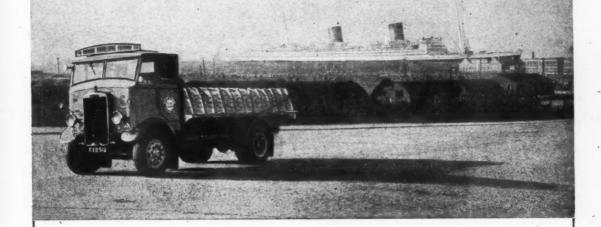


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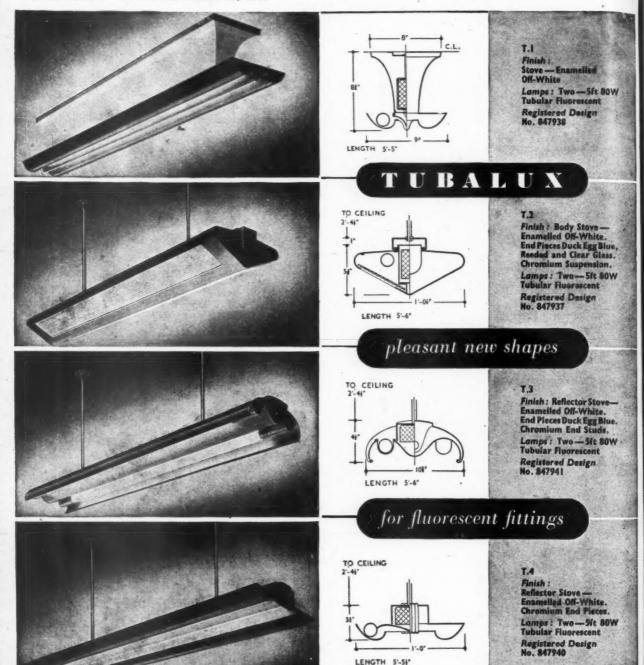
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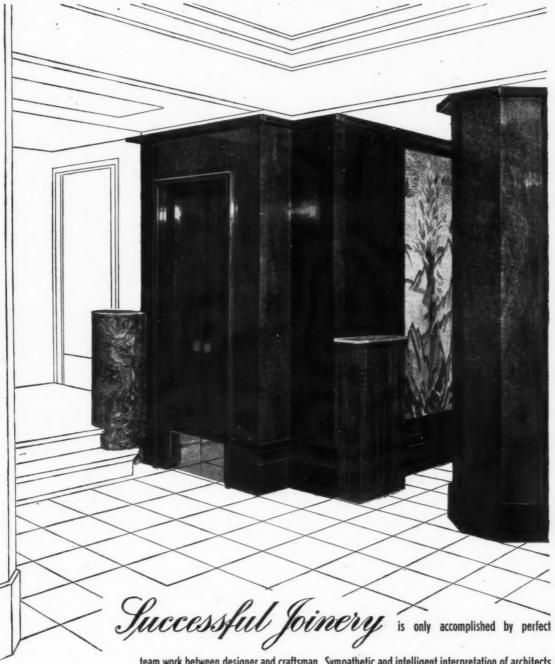
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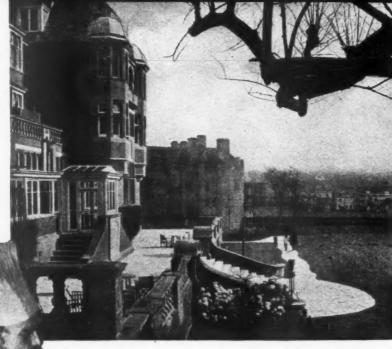
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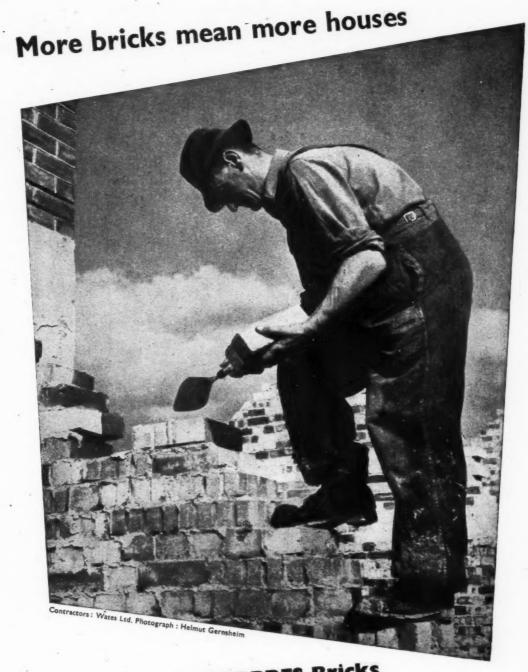
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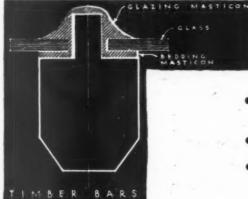
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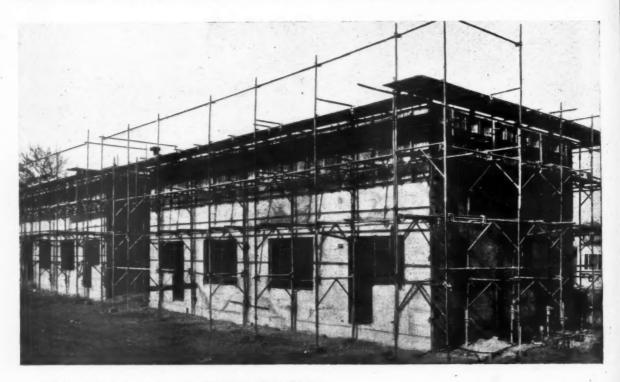
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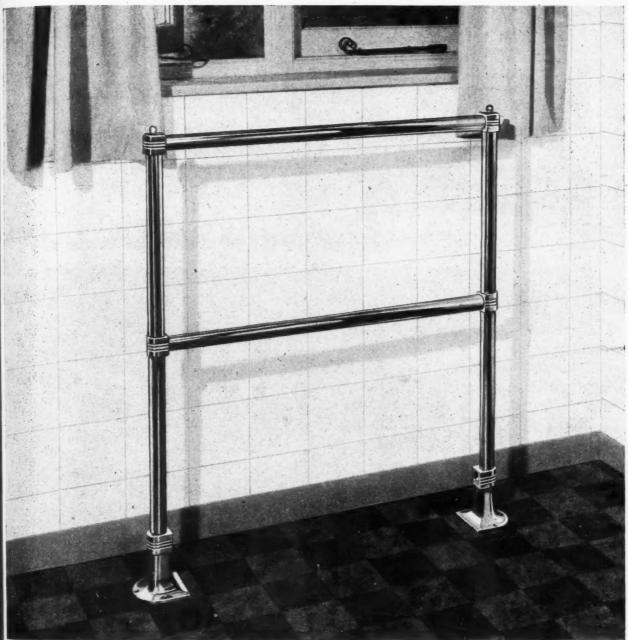


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In common with every other periodical this JOURNAL is rationed to a small part of its prewar needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee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



order." Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single 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. Goods advertised in the Journal and made of raw material now in short supply, are not necessarily available for export.

# DIARY FOR MARCH APRIL AND MAY

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.

CHESTER. J. S. Pickles and W. H. Wills.
Rural Electrification. The Use of the
Single-Phase System of Supply. (Joint
meeting of the IEE, North-Western Centre
with the Mersey and North Wales Centre
and the Chester Engineering Society.) 6.30
p.m. Mar. 17

LONDON. Exhibition of the King's Pictures. At the Royal Academy, Piccacilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until Mar. 16

Danish Domestic Design. Exhibition at the RIBA, 66, Portland Place, W.1. (Sponsor, CID and the Arts Council.) 10 a.m. to 6 p.m. Until Mar. 15

London Background. An exhibition of drawings and paintings by Tom Waghorn, at B. T. Batsford, Ltd., 15, North Audley Street, W.1. (Sponsor, B. T. Batsford, Ltd.) 10 a.m. to 5.30 p.m.

Until MAR. 26

Spanish Paintings. Exhibition at the National Gallery, Trafalgar Square, W.C. (Sponsor, National Gallery and the Arts Council.)

Architects to Public Authorities. Last of the talks and informal discussions on Office Organisation, at the RIBA, 66, Portland Place, W.1. The speakers will be Hubert Bennett, Architect for the West Riding of Yorkshire; D. E. E. Gibson, City Architect for Coventry; and Kenneth Campbell, Miners' Welfare Commission. Chairman, R. H. Matthew, Architect to the LCC. (Sponsor, RIBA.) 6.30 p.m. MAR. 27

Steel Door Frames. Exhibition at Henry Hope and Sons, Ltd., 17, Berners Street, W.I. The object of the exhibition is to overcome any practical difficulties that architects may foresee or experience in fitting steel door frames to the various types of walls and floors in use to-day. (Sponsor, Henry Hope and Sons, Ltd.)

MAR. onwards

Recent Paintings by Michael Ayrton and Humphrey Spender, and Original Lithographs by Bonnard, Lautrec, Vuillard. At the Redfern Gallery, 20, Cork Street, Burlington Gardens, W.1. Until April 5

Ministry of Fuel and Power. Illustrated lecture to the Institution of Heating and Ventilating, Associate Members and Graduates Section. At the Junior Institution of Engineers, 39, Victoria Street, S.W.1. (Sponsor, IHVE, Associate Members and Graduates Section.) 6 p.m. MAR. 18

E. J. Rimmer, Barrister-at-Law. The Legal Obligations of a Quantity Surveyor. At the Royal Institution of Chartered Surveyors, 12, Great George Street, Westminster, S.W.1. (Sponsor, RICS.) 5.30 p.m. MAR. 19 Ideal Home Exhibition. At Olympia, W. (Sponsor, Daily Mail.) 10 a.m. to 10 p.m. Admission 2s. 9d. Until MAR. 29

J. Owens. Some Aspects of, and Problems Associated with, Reconstruction. At Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI). 5.30 p.m. MAR. 20

Design and Development in Domestic Solid Fuel Appliances. Conference at the Royal Society of Arts, 6, John Adam Street, Adelphi, W.C.2. (Sponsor, Women's Advisory Committee on Solid Fuel and the Council of Industrial Research.) 10.30 a.m. MAR. 21

Modern Homes Exhibition. At Dorland Hall, Regent Street, S.W.1. (Sponsor, Daily Herald.)

Noel Bercovici. Some Trends in Modern Art. At the International Arts Centre, 3, Orme Square, Bayswater Road, W.2. (Sponsor, IAC.) 8 p.m. MAR. 25

A. W. Hendry. Stress Distribution in Steel Portal Frame Knees. At The Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. MAR. 27

John Hutton, Hon. Secretary, Society of Mural Painters. Mural Painting as a Vital Art. At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. MAR. 26

John Summerson. How We Began—The Early History of the AA. At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. APRIL 16

MANCHESTER. Drawings by F. H. Baines and W. H. Blackburn. Exhibition at the Manchester Municipal School of Art, Cavendish Street, All Saints, Manchester, 15, of a selection of sketches made by the artists in such time as they had to spare from their duties during war service in India. The exhibition was first sponsored by the Royal India Society and is substantially the same as that held in London last year. Mr. Baines was a student at the Manchester Municipal School of Art. MAR. 17-APRIL 2

SCUNTHORPE. History of the British Playhouse. Exhibition at the Art Gallery. (Sponsor, the Arts Council.)

# NEWS

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

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

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

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

To supersede the present separate stations of the Metropolitan and Central lines London Transport is to construct a NEW STATION AT NOTTING HILL GATE. The two familiar above-ground station en-

trances at Notting Hill Gate will disappear, and access will be by a series of five subway entrances. The new station is in fact comparable to a smaller version of Piccadilly Circus. The main feature is a large sub-surface ticket hall, 56 ft. long and 46 ft. wide, approached by 5 short stairways from the pavement at the junction of Notting Hill Gate and Pembridge Gardens. Lifts will be replaced by escalators. There will be access to both the Metropolitan and Central Line platforms from the ticket hall. Direct interchange between the Metropolitan Line and the Central Line will be by a subway and escalators. The building of the station will take place in conjunction with local authority plans for widening at Notting Hill Gate. Planning is now going on in conjunction with the LCC and the Roya. Borough of Kensington. Part of the ticket hall will form a public pedestrians using the 5 subway entrances will be made easier and safer, and road congestion will be reduced.



Fallowfield Estate, Chesterton, Cambridge

C. W. Craske, Architect

# HOPE'S WINDOWS

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# From AN ARCHITECT'S Commonplace Book

A PURITAN IN VENICE. (From The Aspern Papers, by Henry James.) The gondola stopped, the old palace was there; it was a house of the class which in Venice carried even in extreme dilapidation the dignified name. "How charming! It's grey and pink!" my companions exclaimed; and that is the most comprehensive description of it. It was not particularly old, only two or three centuries; and it had an air not so much of decay as of quiet discouragement, as if it had rather missed its career. But its wide front, with a stone balcony from end to end of the piano nobile or most important floor, was architectural enough, with the aid of various pilasters and arches; and the stucco with which in the intervals it had long ago been endued was rosy in the April afternoon. It overlooked a clean, melancholy, rather lonely canal, which had a narrow riva or convenient footway on either side. "I don't know why—there are no brick gables," said Mrs. Prest, "but this corner has seemed to me before more Dutch than Italian, more like Amsterdam than Venice. It's eccentrically neat, for reasons of its own; and though you may pass on foot scarcely any one ever thinks of doing so. It's as negative—considering where it is—as a Protestant Sunday . . ."

On the site of the old Westminster Hospital the Government proposes to build a new COLONIAL OFFICE. The Public Offices (Site) Bill, just published, gives the Minister of Works power to acquire by agreement or compulsorily the site and building of the old Westminster Hospital in Broad Sanctuary, Westminster, where the Government proposes to build a new Colonial Office. The new building, says The Times, will also occupy the adjoining site of the former Stationery Office in Princes Street, which is already Crown property. The cost of acquiring the Westminster Hospital site is estimated at £300,000 and the cost of the new offices is provisionally estimated at £1,850,000.

Forty acres of new Government offices for 10,000 civil servants are likely to be scheduled shortly as a first instalment of LONDON'S NEW SOUTH BANK.

After making this announcement the News Chronicle states: Negotiations for the site—between County Hall and Hungerford Bridge, stretching in depth between the river front and York Road—are nearing the end of a ruffled passage. The LCC, who exercise powers of compulsory purchase of the site, has contended for its use as a great youth centre, as proposed in the Forshaw-Abercrombie London Plan. But the Ministry of Works (the only Ministry at present installed on the south bank) has urged that it should become an overflow-Whitehall. The Ministry has won. Mr. Charles Key, the Minister, told the House of Commons that the LCC will shortly issue a general statement. Building will begin when London's housing priorities have been satisfied.

The Council of the AA offers the following SCHOLARSHIPS IN ARCHITECTURE.

Entrance Scholarships. The Leverhulme Scholarship, value £200 per annum. The Minter Open Entrance Scholarship, value £90. The Sir Walter Lawrence Open Entrance Scholarship, value £90. The Metal Window Scholarship, value £75 per annum (presented by the British Metal Window Manufacturers' Association, Ltd.). The Natural Asphalte Council Scholarship, value £50 per annum (presented by the Natural Asphalte Mine-Owners and Manufacturers' Council). The Northern

Aluminium Scholarship, value £50 per annum (presented by the Northern Aluminium Company). The Patent Glazing Scholarship, value £50 per annum (presented by the Patent Glazing Conference). These scholarships, which are tenable for five years at the AA School of Architecture, will be available to students of British nationality. They will be awarded for one year, with the intention that they shall be renewed from year to year until the student has completed the course; renewal being subject to a satisfactory report of the student's progress, and to proof of the continued need for such assistance. Senior Entrance Scholarship. The Metal Window Senior Scholarship, value £50 per annum (presented by the British Metal Window Manufacturers' Association, Ltd.). This scholarship, which is tenable for two years at the AA School of Architecture, is open to students of British nationality, who have passed the Intermediate Examination of the RIBA, either externally, or at another Recognised School of Architecture, and is for entry to the fourth year of the course, and subject to satisfactory progress by the student, will be renewed for the fifth year. Full particulars and forms of application may be obtained from the Secretary of the

AA, 36, Bedford Square, London, W.C.1, and forms of application should be received not later than April 1, 1947, for all except the Leverhulme Scholarship, the date for which is June 1, 1947.

The Minister of Health has decided that the maximum SELLING PRICES FOR HOUSES to be built by private builders under licence shall be increased by £100. The new figures are £1,300 (£1,400 in the London region), compared with £1,200 (£1,300 in the London region). In a letter to local authorities, Mr. Bevan says that it is important that the houses to be built under licence should be of good standard in construction and amenity and that the conditions attached to the licence should permit this standard. The maximum selling prices had been reviewed with this consideration in mind. Local authorities would have facilities for inspection of work. The new conditions apply to licences issued after February 25.



Some of the two hundred British builders being welcomed by the Australian Federal Minister for Works and Housing, Mr. Nelson Lemmon, on arrival at Fremantle in SS Largs Bay. The men have emigrated to Canberra to work on a fifteen year building programme.



# American Contrast

That two interiors as different in character as those shown here can be created at the same time and in the same country is a paradox that should be as interesting to the sociologist as to the architect. Above, the staircase in the new Alumni Memorial Hall at the Technological Centre of the Illinois Institute of Technology in Chicago, designed by Mies Van Der Rohe—precise, logical, uncompromising, the extreme of structural purity and refinement. Right, the Crown Room of Prince Matchabelli, Inc., the Fifth Avenue scent house designed by William Pahlmann—eclectic, superficial, undisciplined, the ultimate of commercial vulgarity, the interior decorator's dream. Finest quality carbolic or most expensive Rêve d'Amour, perhaps neither conception is quite on the human level. On page 206 are shown further illustrations of Van Der Rohe's brilliant if austere Technological Centre, to which the Alumni Memorial Hall is the latest addition.



Mr. Lewis Silkin, M.P., Minister of Town and Country Planning, has appointed the following as members of the Development Corporation for the new town at CRAWLEY-THREE BRIDGES.

Chairman: Sir Thomas Bennett, C.B.E., F.R.I.B.A., recently Director of Works and Controller of Temporary Housing at the Ministry of Works. Vice-Chairman: Lawrence E. Neal, Chairman and Managing Director of Daniel Neal and Son, Ltd., Former Deputy Secretary at the Ministry of Works and at the Ministry of Town and Country Planning. H. A. Benson, C.B.E., F.I.C.A., Formerly Controller of Building Materials at the Ministry of Works and Housing Production Officer at the Ministry of Health. Mrs. Douglas Bolton, Member of LCC for Hackney since 1934. Miss Caroline Haslett, C.B.E., COMP.I.E.E., Director of the Electrical Association for Women. Miss Haslett is a native of Crawley. Mrs. Frieda Johnson; has wide experience of Local Government Welfare work and of the Building Industry. Councillor J. Marshall, J.P., Mayor of Croydon; name put forward by North East Surrey Joint Planning Committee. E. W. Pasold, Chairman of the South of England Hosiery Manufacturers' Association. Councillor E. Stanford, C.B.E., Vice-Chairman of the Horsham Rural District Council and Crawley Parish Council.

The fourth and last of the talks and informal discussions on Office Organisation will take place at the RIBA at 6.30 p.m. on March 27. subject will be ARCHITECTS TO PUBLIC AUTHORITIES. Judging by the amount of interest already shown, the subject promises to evoke plenty of discussion at the meeting. The speakers or discussion at the meeting. The speakers will be: Mr. Hubert Bennett, F.R.I.B.A., Architect for the West Riding of Yorkshire; Mr. D. E. E. Gibson, M.A., A.R.I.B.A., City Architect for Coventry, Mr. Kenneth Campbell A.R.I.B.A., Miners' Welfare Commission; Mr. R. H. Matthew, A.R.I.B.A., Architect to the London County Council, will be in the chair. Mr. Hubert Bornett will discuss and Mr. Hubert Bennett will discuss and outline the problems relating to the building up of a modern architectural department covering a large administrative area and will talk about the work of the department and the methods adopted for producing a high standard of architectural design. Mr. Gibson will give a picture of the organisation and operations carried out by the architectural design. tectural department of a local authority in a medium sized city where the work also involves planning duties. His talk will cover such aspects of the problem as the cover such aspects of the problem as the actual organisation of the work, costing of jobs, the "set up" and relationship of the staff, individual responsibility of certain members, and the various services performed for the community by the department, such as housing, schools, libraries, health centres. He will also deal with the measure of the blog aircraft the local question of the help given to the local authority by privately practising architects.

Mr. Kenneth Campbell will talk about the organisation of the technical department of organisation of the technical department of the Miner's Welfare Commission under the following heads: (a) The investigation of an industrial problem on a functional basis. (b) Development of the solution in terms of design and sectional organisation. (c)
Emergence of an overall character and
unity on the basis of sectional work and
responsibility. (d) Advantages and disadvantages of section method. (e) Present tendencies in organisation to meet post-war problems of the industry.

# INCENTIVES AND OUTPUT

THE rise of fourpence in building craftsmen's wages last year was accepted by employers and by the Government on the understanding that, if possible, productivity in the industry would be correspondingly increased. This was a kind of gentlemanly understanding, based on the belief that, during 1946, conditions of work would return nearer to those of a pre-war normal year. Younger workers would return to, or enter, the building labour force.

Now the industry is faced with another wage-demand from the operatives. They ask for sixpence more for craftsmen (and ninepence for labourers). So far, this demand has not been accepted.

What happened to productivity during 1946? The truth is that nobody knows. Some say that productivity improved slightly; but authoritative figures are lacking. Whether it improved or not, no one can say how far changes in productivity were caused by improvements (or the reverse) in the supply of materials.

It is the absence of quantitative knowledge that makes all discussions of the probable effect of incentives-payments so inconclusive. Opinions are confidently given on all sides of the question, just because it is easy to generalise from a few particular cases—and tempting to grind an axe when the occasion serves.

From all the controversy, a few principles seem to be emerging. Any worth-while incentives scheme must really succeed in improving or maintaining the level of output; therefore it must not only be just on paper, it must be workable in practice. It must fulfil, for this, three requirements: be easy to work, easy to understand, and not detrimental to good craftsmanship. These principles readily dispose of several of the more elaborate schemes that have so far been mooted. A scheme that was as subtle as, say, the allowances system of the income tax, is automatically ruled out, owing to the length of time needed in calculation. A bonus for the worker at the end of the job, based on his joint effort with his gang over the previous six months, is not a workable incentives scheme. This is not to say that such bonuses are always out of place, e.g., the Christmas presents given to regular employees by some large firms have contributed to the formation of experienced teams of workers. But it is not an incentives scheme for universal application. A scheme, based on measured work for operations, with adjustments in the rates to allow for site conditions, is practicable. This was proved by the successful working of the Payment by Results system during the war. The difficulty with schemes of this sort is that an elaborate schedule has to be laid down. and efforts have to be continually made (by inspectors, etc.) to keep the working of the system in step all over the country. Many builders would prefer to be released from their present legal obligations, and to be allowed to pay what bonuses they chose-perhaps ten shillings at the end of the week to each man who had done well. This kind of practice, which

speculative builders and civil engineers often adopted before the war, provides only rough and ready justice, is open to abuse, and can never recommend itself to organised labour. A workable scheme will clearly have to fall short of perfection. It cannot both be entirely "just," i.e. exactly related to measured effort, and easy to work and to understand. So this really throws the whole case for an incentives scheme back into the melting-pot.

Unfortunately, output in the industry, whatever the reason, is not satisfying the demands of the country. Productivity there is a matter of national importance. It is possible that the whole building programme will have to be reconsidered and cut if costs go on rising. In these circumstances at least some attempt to agree a method of incentives bonusing is to be expected from joint consultations within the industry.



The Architects' Journal

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TOPICS

### OLYMPIAN HIGH LIGHTS

The first Ideal Home Exhibition since 1939 is far less austere than you would expect. Months ago it was announced that the exhibits would be limited to goods in production, and some of us wondered whether there would really be very much left to show. Admittedly there still isn't a lot you can buy straight off the peg, but most manufacturers seem to be able to quote some sort of a delivery date, even if it is six months ahead.

Austerity, in fact, is more in evidence in the display than in the goods. Gas

appliance manufacturers seem to suffer most, as they aren't allowed to demonstrate at all, whereas electrical equipment can at least be turned on from 12 till 2. Astragal's furniture section award goes to Dunns of Bromley for a civilised display of well designed goods. Government departments show up very well; the Ministry of Food had the good sense to go to an architect, MOTCP has an informative show for the general public, out in the open and naturally lit, whereas Fuel and Power is tucked away in the dark under the gallery and is barely visible. Perhaps there is a moral in

By and large I feel that a few bouquets may well be handed out. The goods shown are mostly of the type one expects, but exhibition work is always a fearful last minute rush, and what with material shortages and fuel cuts it is something of a triumph to have opened the show on the right day and at the right time.

# THE STARS IN THEIR COURSES

How many architects who reach for the stars have actually looked at them through a telescope? I was lucky enough to have this exalting experience the other evening when I visited the University of London Observatory at Mill Hill. The eight-inch instrument, a very minor affair, was swung onto the brilliant moon, and through the eyepiece I gazed and gasped at the jagged ranges of lunar mountains, at the gaping and evil looking crater of Plato, all standing out sharply, and hugely, in the revealing glare of the sun.

Next we turned the telescope on to Saturn, 800 times larger than the earth, to the naked eye only a pin-point in the blackness, but through the magic lens a revelation of volume and immensity. Finally, like Job, we sought to "loose the bands of Orion," gazing at this snow-like and crystal nebula, so many light years distant. After so much marvelling at the astronomical photographs in books like those of Sir James Jeans and others, it was a stupefying revelation to behold at such "close quarters," the planets and stars themselves, and I strongly advise those architects who feel in need of the stimulating essence of Nature, to make a visit to their nearest Observatory,

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I should add that later Mr. Gregory, the Director, took us up into the largest of the inspecting chambers. Here I was shown the mobile roof dome. which revolves on tiny wheels at the telescope's eye-piece level; and also the lift floor, conveying the enormous telescope to different viewing levels. Finally, Mr. Gregory confessed, before saying goodnight, that he considered the popular daily newspaper articles on visits to the moon, to be the most casual journalism for the gallery public; but all the same I detected a gleam of the adventurer in his eye, which made me wonder.

### NATIONAL TRUST

A good puff for the National Trust, which has recently celebrated its fiftieth anniversary, comes in the form of a very pleasantly produced book called *On Trust for the Nation*. Text by Clough Williams-Ellis, drawings by Barbara Jones, and 100 photographs of great merit by various people. Publisher Paul Elek. Price 25 shillings.

As most people know the National Trust for Places of Historic Interest or Natural Beauty is an unofficial body managed by private persons in the public interest. Formerly all its funds came from private sources until last July when the Chancellor of the Exchequer promised to cap every £1 subscribed to the National Trust's Endowment Fund with £1 from the Treasury. In this book Mr. Ellis, in the words of the jacket blurb, "takes us, in his vivid, imaginative style,

through the length and breadth of England and Wales and shows us what the National Trust holds and preserves for us." What the Trust has collected together in its 50 years is well over 115,000 acres which it actually owns and nearly half as much again which it protects by covenant. This is quite apart from the great variety of buildings scattered all over the country.

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The book forms a useful guide to all this property and apart from the illustrations and Mr. Ellis's descriptions there are some useful maps at the end of the volume showing just where the As Mr. Ellis property is situated. writes: "I had resolved that 'gush' about scenery, even superb poetic gush, should have no place in this book. I hold that views and buildings are essentially to be seen. . . . This, is essentially, a sort of guide book, more concerned with the actual physical facts, whether country or buildings, than with my own or anyone else's emotional reactions thereto."

Even so, one wonders whether the book should not have been even more of a guide to include such useful information as the times when buildings can be visited, cost of entrance, if any, how you get to the places, where the nearest station is or the nearest hotel. However, this kind of information may be added before long and perhapshope springs eternal—the book may even appear eventually in the form of a shilling Penguin.

Hope remains, too, that the Almost Perfect State of Don Marquis, whom Mr. Ellis never tires of quoting, may one day come-a less austere day than the present-to provide us with the leisure time to visit our National treasures-that State, according to the gaily subversive" philosopher, when "after the short time each day has been put in at work that is necessary to keep humanity living, the remaining time may be devoted to work calculated to make humanity glad it is living."

ASTRAGAL



Squires Mount, Hampstead. A drawing by Barbara Jones from In Trust for the Nation, reviewed by Astragal this week.



# LETTERS

A. R. Castiglione

A. E. Aikman, A.R.I.B.A., (Senior Lecturer in Architecture, South-East Essex Technical College.)

# Registration

SIR,—I have read with considerable interest the recent letters on registration. Perhaps my own attempts to become registered may be of interest. Before the war I took a five-year course in architecture at the University of Cambridge. After serving in HM Forces throughout the war I now find I am unable to obtain registration as the University Dip-loma is not recognised by the ARCUK. I wrote to the ARCUK to ask whether any special consideration could be given to the fact that I had taken a full Diploma course before the war (and had in fact nearly com-pleted this course before the Registration Act was brought into effect), but to no avail. be of interest. Before the war I took a five-

Act was brought into effect), but to no avail. Evidently the ARCUK instead of trying to assist in the resettlement of ex-service personnel is determined to use every means in

its power to restrict entry into the profession.
With regard to "seven years as an architectural assistant," how much more entitled to this privilege are those who have had to this privilege are those who have had their careers interrupted by war service? Can any member of the ARCUK say whether there is any difference in seven years prior to August, 1938, or any other particular seven years? Or was this only an easy way of "buying up" the opposition to the Act?

an easy way of "buying up" the opposition to the Act?

The whole question of war service should be drastically revised and schools other than the "chosen few" of the ARCUK should be included for the purpose of registration. Alternatively, if sufficient people are forthcoming I suggest that perhaps a march on the RIBA with banners flying might have some effect.

some effect.

A. R. CASTIGLIONE East Grinstead

# Architectural Education

SIR,—Referring to the letter by Mr. Knapp-Fisher, I stand corrected regarding my state-ment on the policy of the RIBA on this matter.

# MODULAR PURITY AT CHICAGO





Another building has now been completed at the Illinois Institute of Technology at Chicago designed by Mies Van Der Rohe. This is the Alumni Memorial Hall. The exterior of this building from the north is shown on the left, and the staircase hall is shown on page 202. The model of the compus project superimposed on an aerial photograph, above, shows the whole composition of nineteen buildings. The buildings are planned on a module of 24 feet long by 24 feet wide by 12 feet high, being steel frame with walls of clear plate glass and pale yellow bricks. The Foundry and the Administration-Library Buildings were illustrated in the A.J. for Jan. 3, 1946.

However, I feel my main point remains unanswered, namely, why does not the RIBA indicate to students applying for admission to Recognised Schools and faced with a long waiting list, that they may undertake a full-time course at other schools and take the RIBA external examinations? Mr. Knapp-Fisher avoided mentioning the existence of such facilities in his reply to Mr. Hemming, and in his present reply, suggests that such facilities exist for evening or part-time students only. Furthermore, the special committee of the RIBA appointed to study

architectural education, in its recommendation to the Council, made reference to a need to curb the "expansionist tendencies" of some unerconsised schools

of some un-recognised schools.

I suggest, therefore, if the Council disassociates itself completely with this statement, as Mr. Knapp-Fisher implies, it cannot but choose to use every available channel if it desires to clear the present blockage in architectural education, and this would entail the full co-operation of all schools of architecture. Such an action would not affect any policy regarding the increase in the number

of recognised schools, and the result of the present deliberations of the Council on this

matter would be unaffected.

I still feel, however, that the Council is allowing the future policy to interfere with the present exigency, and that until the two aims are clearly defined and separated, no major clearance of the present hiatus can be effected.

Senior Lecturer in Architecture, South-East Essex Technical College, Dagenham



# HOUSES

# DESIGNED BY HANS ELTE

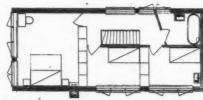
# 1. HOUSE IN HEILOO, HOLLAND

Above, a view of the house from the south-east. The French doors to the living room open on to a small paved terrace. The door and window frames are of wood painted. Below, left, ground and first floor plans to  $\frac{1}{10}$  in. scale. Below, on right, a view from the north-east. The single-storey store is used for bicycles, garden tools, etc.

Hans Elte is a Dutch architect now working in this country. Before the war he was associated with the Dutch group "de 8", he also worked with Le Corbusier in France and Asplund in Sweden. The house in Heiloo illustrated on this page was built in 1935 at a cost of £450. The total floor area is approximately 1,400 sq. ft., including the store on the ground floor.

PLANNING.—Accommodation on the ground floor is a living-room with a dining recess, a kitchen separated from the dining space by a bulkhead formed by a cupboard, double doors being provided to exclude noise and smells. The w.c. is on the ground floor. Three bedrooms, each provided with builtin wardrobe cupboards, are on the first floor. The bathroom is equipped with a "telephone" shower fitting over the bath.

CONSTRUCTION.—Brick cavity walls were used externally, the internal partitions being also of brick where not formed by groups of built-in cupboards. The first floor is in timber, the width of the house being determined by the maximum economical span for timber joists. The width of window openings was also determined by the maximum economical span for brick construction. The roof is copper on boarding on timber rafters.



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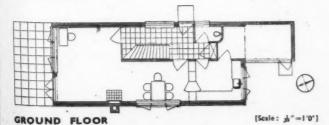
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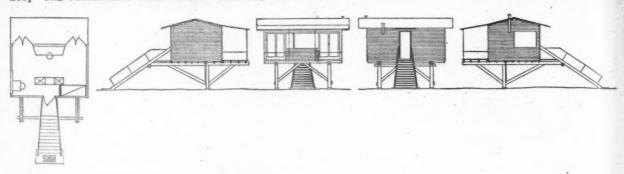
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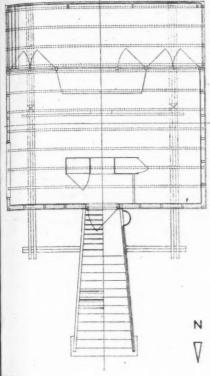
Top, diagrammatic plan and elevations. Centre, view from the south shaving the projecting covered balcony. Bottom, view from the north-east.

This study bungalow was built for Prof. J. H. van Meurs at Bergen, Holland, on his estate among trees on level ground at the foot of the sand hills. To give a wider view over the pasture land, the house was mounted on a platform. Some features were determined by Japanese influences, the general design being suggested by a bird sitting on its tail.

Though the dimensions of the one room dwelling are modest (13 feet by 19 feet), the glass front on the south side makes it appear considerably larger. The projecting roof carried forward over the balcony, while not seriously interfering with the lighting of the room, gives adequate protection from excessive sunshine.

In this room it was found possible to provide cooking and sleeping facilities for weekend use.

To make the most effective use of the available space a recess was





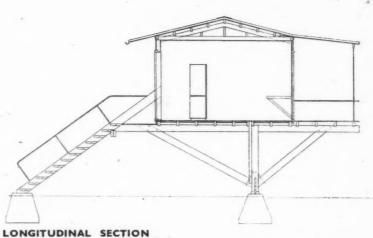
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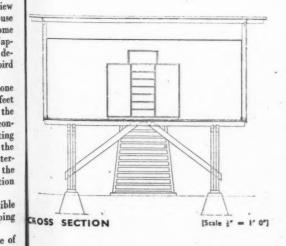
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The building faces south, the staircase shown dove being on the north side. The bed recess is in the north-west corner of the plan. The drawings show clearly the structure of the study and indicate how it is balanced on three points.





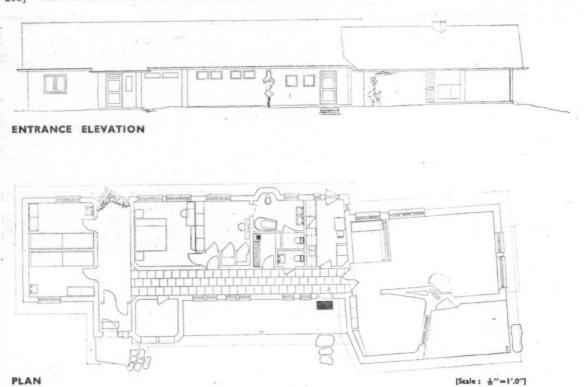
LONGITODINAL SECTION



designed, formed by a glass screen and two cupboards 5 feet 6 inches in height.

The construction of the bungalow is entirely of wood, the supports and staircase being set on concrete blocks, with the roof of corrugated asbestos, walls and floor carefully insulated against heat and cold.

The walls inside are of Finnish birch plywood, French polished; the ceiling is of 2 inch acoustic fibre board, the floor of Canadian maple. For light and cooking Buta gas was used, for heating a closed white enamel Swedish stove.



This house, to be built at Glarus in Switzerland, has a magnificent, though difficult, site. A narrow ledge on the mountain side provides wide views over the village below, a river and two long mountain valleys. The house has accordingly been planned to take full advantage of the outlook. The living room and dining room are set at a slight angle to the remainder of the house, and the windows of these rooms give views up the valleys. While the house is intended chiefly as a summer residence, provision has been made for an outdoor fireplace on the terrace, so that the Alpine glow of evening may be enjoyed in comfort. A sliding panel is planned in the wall separating the small study recess from the living room, so that, if desired, the living room can be made more snug on cold evenings.

CONSTRUCTION.—The house is to be built in local brick with white rendering externally. The walls internally are plastered and finished in colours determined by the use of residues from wine production.

The floor slab will be concrete with white marble finish to the hall, which also will have a 2½-in. marble skirting. The floor finishes to the living room, bedrooms and dressing room will be maple, while the dining room is to have walnut blocks. The bathroom and kitchen will be in white Italian marble mosaic.

The roof is to be of copper with copper gutters and down pipes. Windows will be double glazed in bronze sash set in teak frames. There is to be a Swedish type fireplace in the living room, from which pipes will convey warmed air to the remainder of the house.



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END ELEVATION

3. HOUSE FOR MISS J. PATTISON, AT GLARUS, SWITZERLAND DESIGNED BY HANS ELTE

The building industry has probably the least rationalised organisation of any industry in this country. All sections of the industry, architects, employers and operatives, have from time to time expressed their views on the steps which should be taken to reconstruct the industry. No agreement has been reached and, as Ian Bowen says below, the standpoint of organised labour is probably the least understood. The following article will bring some enlightenment.



# MIND THE LABOUR

The Operatives' View of the Industry

[by Ian Bowen]

# LABOUR PRODUCTIVITY

The Economic Survey, recently published by the Government, threw out some hints that payment by results schemes might be under consideration. The same Survey mentioned the regrettable fact that labour productivity in the building industry was lower than before the war.

A number of writers and public speakers have presented the arguments in favour of an incentives' scheme of some kind for the an incentives' scheme of some kind for the industry, and for many months a report from the incentives sub-committee of the industry has been awaited by an impatient public. All proposals seem to meet insuperable obstacles. From what quarter do the objections come? It is hardly to be doubted that they come from organized

It is therefore of the utmost importance at this date to try to understand how the mind of organized labour really works. The worker on the site may or may not prefer payment by results to straight time rates. That is a relevant, but not the only, question. The mind of organized labour is the politically-educated (or politically-conscious) mind of the trade union leaders. They are the opponents, or at least the critics, of the incentive's schemes. They have their own views on all the problems of the building industry.

### THE WIDER ISSUES

Incentives' schemes cannot, of course, be considered in isolation. High labour pro-ductivity in the industry must depend in part upon sound administration and skilful management, and upon a number of other factors, such as improved welfare conditions on the sites. It depends upon how fast improved techniques of construction can be introduced into the industry, and upon how far the right numbers and balance

of workers are available for jobs.

How does the mind of organized labour regard these inter-connected problems?

I am sure (if I may be allowed a personal

I am sure (if I may be allowed a personal aside) that Mr. Coppock and Mr. Stephenson will not quarrel with me if I select them by name as the spokesmen of organized building labour in this country. As General Secretary and President of the National Federation of Building Trade Operatives, which includes nineteen unions, Mr. Coppock and Mr. Stephenson gave evidence to the Select Committee on Estimates on July 2, 1946. What they said then can be regarded as typical of what the "mind of labour" really thinks.

### INCREASING THE LABOUR FORCE

The building industry before the war, said Mr. Coppock, "never employed more Mr. Coppock, "never employed more than 800,000 building trade operatives right than 800,000 building trade operatives right throughout the whole periods of boom, and now at the end of this year [1946] you are anticipating employing 1,031,000.

Materials supplies were improving; "there has been a great job done by the Ministry of Works" (in increasing brick production), interposed Mr. Stephenson.

Nevertheless, as organised labour saw the problem the great increase in labour supply

problem, the great increase in labour supply had already in July, 1946, outrun the increase in the supply of building materials to some extent. "The evidence is," as Mr. Coppock extent. "The evidence is," as Mr. Coppock put it, "that we are taking in more members than we have ever had in the history of our trade unions."

# INCREASE IN NUMBER OF SMALL

Apart from the increase in the labour force, there has been a considerable increase in the number of small firms setting up in business. "We are responsible for that," Mr. Stephenwe are responsible for that," Mr. Stephenson admitted. "When the question of licensing was being examined by the Department concerned, we said: 'Now, this is an industry that belongs to everybody in it. Therefore the man who has served his apprenticeship to the craft has as much right in the in ship to the craft has as much right in the industry as an employer; therefore he can be-come an employer and be registered."

Whether or not this syllogism can be defended in terms of formal logic, the political

point is thus clear; the trade union leaders backed the policy of increasing on a vast scale the number of small firms in the industry.

A member of the Select Committee suggested that these small firms were one cause of the black market in building work. Mr. Stephenson replied: "No, I do not think so; I think you will find that the average craftsman will not be in the black market as we know it; ... it is this other fellow who bursts in." This "other fellow," thus mystifyingly introduced into the argument, is the alleged intruder into building, a newcomer without knowledge or experience, as opposed to the honest craftsman, who would be above black market transactions.

# SCEPTICISM ON LICENSING

In July, 1946-and later, according to more In July, 1946—and later, according to more recent statements—Mr. Coppock was sceptical of the rationale or effectiveness of licensing down to a £10 level. It is "the bigger type of work" that the local authorities ought to license more strictly. "Tell me any other industry which has a black market but which cannot spend more than £10 on a job," exclaimed Mr. Coppock. "That is the restriction you are up against; the whole thing is totally unreal. . . You can estimate for a job and you can get a licence for a job of, say, £5,000, but then the movement of materials [prices] and so on will affect it, and you will find yourself with a revised estimate for £6,500, and your job is nowhere near done. The fact is that you have not overdone. The fact is that you have not over-stepped your licence because you have not done your work, but you have overstepped your price. The whole thing is absurd...." Again, it is doubtful whether the logic of

Again, it is doubtful whether the logic of this argument could be recommended to anyone contemplating using it in a court of law, having exceeded the value of his licence. The political point remains that organised labour exhibits a sceptical attitude towards the reasonableness of strict licensing of small works. licensing of small works.

# CAUTIOUSNESS TOWARDS PRE-FABRICATION

Organised labour might justifiably be proud of the success attending its co-operative action in increasing the size of the labour

force. It might be equally satisfied with its record on "demarcation" disputes.

"What we have successfully prevented," said Mr. Coppock, "is the creation of a subsidiary set of employees within the industry who were specially qualified to perform a particular task. . . As far as we are concerned, we have dealt with the problem on the basis of interavailability, and as a consequence there has not been in connection with any particular job right from the in-ception of the use of any new material, one moment of stoppage on account of any line of demarcation, which I think is most remarkable in the history of the trade union organisation." It is certainly remarkably in contrast to the history of American demarcation disputes. cation disputes.

Organised labour remains extremely cautious in its judgment of new methods and new materials. As Mr. Stephenson put it: I believe personally that we have wasted a lot of time on housebuilding trying to find effective substitutes for the traditional methods. . . . That applies to every house that has been designed, with possibly one exception

Nevertheless, Mr. Stephenson seemed sur-Nevertheless, Mr. Stephenson seemed surprised that "an idea [was] abroad that we in the building industry have got some objection to these things, and I want to say quite definitely that we have not... Changes have always been taking place, and we have always had new materials to deal with."

Getting down to hard teeks it would seem Getting down to hard tacks, it would seem

that the unions will accept new methods, once they are through the experimental stage. They will adjust the proportions of different kinds of craftsmen required for these new But they will not accept (if they methods. can avoid it) the introduction of "engineers" (i.e., non-building union men) to put up prefabricated houses. And if plumbing or joinery work previously done on the sites is to be done in factories or shops, then "it will be our people who do it."

They are afraid of the enthusiastic "worship" [of] this new form of production for its own sake. "In the case of one particular type of house, it is costing anything from f150 to £210 a house to cart these houses about before they are set up." As for the American pre-fabs: they "were a failure," said Mr. Coppock. "They were just a bug house, and your Canadian houses are not too free from it."

### THE TENDERING SYSTEM

"The position is that we are under-capitalised in the industry," said Mr. Coppock.

"... In the main we never do what we want to do. We do as we are told. We want to do. We do as we are told. We have to consult every local authority and every architect. . . What we should like are data—we have no data on production; you cannot tell me of any particular job in the war period as to the actual cost of that particular job." This is certainly a statement that might be pondered.

Mr. Coppock added: "Whenever you let a contract you are not concerned any more

Mr. Coppock added: "Whenever you let a contract you are not concerned any more about that; you let that contract out; every local authority does that. . . It is the lowest price that is put in. It is just like a gamble. There is no morality in this business . . . and if you could tell us how we could get production on the basis of the lowest estimate the delicated. We are trying to find we would be delighted. We are trying to find out ourselves. There is the price, and it should be the same price, and I do not see why it should be 9d. for one fellow and 41d. for another. Really, the only thing is the imponderable labour power. . .

"I am not so foolish as to suggest stan-dardisation of tendering. I would suggest much tighter control as far as the industry is much tighter control as far as the industry is concerned. . . There is no one employed by any of the Service Departments to see that a specification is carried out. . . . There is little or no assistance given to a contractor once he has got the job. They do not care two hoots what happens."

"That is where I think it is wrong in our industry. It should be their business from the very beginning to assist that man to complete his job."

### WHAT IS WRONG WITH THE INDUSTRY?

Now, if someone with so long an experience of, and so deep an affection for, the traditional building industry as Mr. Coppock admits that there is something wrong with that industry, architects should sit up and take notice. Mr. Coppock's point here goes take notice. Mr. Coppock's point here goes to the root of the whole tendering system. Out of his accumulated knowledge and ex-perience he has formed a view that it would certainly be unwise to pass over or ignore. From the quotations given certain con-

clusions may be drawn.

Output per man is dependent upon (a) adequate labour and a proper balance of labour; (b) the smooth introduction of new methods; (c) a continuous and adequate flow of materials to the sites; (d) skilful management, in the widest use of that word. None of these points is satisfied under the present of these points is satisfied under the present system of competitive tendering. The answer is not necessarily nationalisation. But it is, necessarily, some radical overhaul of the method of letting contracts, combined with a revision of the responsibility of progress-ing contracts. Without these radical reforms, appeals addressed to the men in exhor-tation or in cash, will fail to have effect.



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

# ILA

# Gordon Stephenson

February 12, at the Institution of Civil Engineers. Talk arranged by the Institute of Landscape Architects on LANDSCAPE ARCHITECTURE IN THE New Towns, by Gordon Stephenson, M.C.P., F.R.I.B.A. Chairman: Clough Williams-Ellis, F.R.I.B.A., M.T.P.I., Vice-President, Institute of Landscape

G. Stephenson: The main purpose of my talk is concerned with the design of New Towns. Architecture in the widest sense possible; to include the whole urban scene or townscape; rather than list horticultural points and hints on planting design and layout. I want to stress the need for on layout. I want to stress the need for an organic or integral design based on simple human needs, both physical and emotional. In my own mind I cannot separate into compartments the design work of the planner, engineer, architect, and landscape architect. Their work will meet at all points. In co-operative design they will succeed, in compartmentalised design they will fail to achieve harmony in the urban scene and in their working relationship.

Landscape architecture is an American term though we can claim, I think, the origin of the art and science to be English. Webster defines the landscape architect as "one whose profession is so to arrange the effects of natural scenery over a given tract as to produce the best asthetic effect, considering the use to which the tract is to be put." I would like to stress the last few words of this definition—" considering the use to which the tract is to be put." Here is the key to whatever points I attempt to make this evening. With this definition one can properly understand Nash's great design stretching from St. James Park to Regent's Park, and the immense contribution made by the Olmstead Brothers in the USA to the design of modern highways.

the design of modern highways.

The design of English landscape reached its peak in 18th Century England. In the reign of Queen Anne the development in the countryside was due to money made in commerce going back into the land. This process continued unabated through the various stages of enclosure. The age of enclosure was also the age of new methods of draining, drilling, sowing, manuring, breeding and feeding cattle, making of roads, rebuilding of farm premises and a hundred other changes, all of them requiring capital. of them requiring capital.

I think we are going to see a new period of change in the countryside and certainly we are going to see it in the urban areas. The New Towns are but an opening phase in the new urban building which bids fair to reach, by the end of the 20th century, the high standards set by the relatively small aristocratic England of the 18th century. The legislative foundations are being laid. Democracy has to find the way to erect the elegant and expressive super-

structure.

New capital and enclosure was at the base New capital and enclosure was at the base of 18th century design. Describing the England of this period Trevelyan says, "indoors and out it was a lovely land. Man's work still added more than it took away from the beauty of nature. Farm buildings and cottages of local style and material sank into the soft landscape, and harmonically diversified and addenated it. material sank into the soft landscape, and harmoniously diversified and adorned it. The fields, enlarged by hedges of bramble and hawthorn set with tall elms, and the new 'plantations' of oak and beech were a fair exchange for the bare open fields, the heaths and thickets of an earlier day." He describes the social and economic bases for the great improvements and how the process of enclosure was accelerated by acts of Parliament in the latter part of the 18th century. I shall quote Trevelyan again; this time saying beautifully something I daren't say. "Private acts of Parliament were passed which overrode the resistance of individual proprietors to enclosure; each had to be content with the land or the money compensation awarded to him by money compensation awarded to him by Parliamentary Commissioners whose de-cisions had the force of law. Batches of these revolutionary Acts were hurried through every Parliament of George III

through every Parliament of George III (1760-1820), assemblies not otherwise famous for radical legislation. But this was the radicalism of the rich often at the expense of the poor."

The general landscape treatment and general layout of a New Town will be suggested by the site itself. In its several square miles there will be many natural features which should be carefully examined and recorded. There will be flat land and valleys; steep and soft slopes, hedgerow trees and woodlands; soils of varying quality.

varying quality.

Among the most precious elements will be

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Among the most precious elements will be mature trees. A plan that disregards them is the work of vandals. Bacon, after saying "God Almighty planted a garden," declared that without one. "building and palace are but gross handiworks."

The disposition of the main parts of the development plan will be dictated partly by the natural and man-made features; the trunk road by-passing the town; the industrial area on the flat land between the trunk road and railway; the living quarters on the south and west facing slopes; the valleys and woodlands forming the recreational belts; the schools and school playing fields on gentle, wooded sites in the hearts of the residential neighbourhoods; the main of the residential neighbourhoods; the main cultural, commercial and administrative buildings at the centre of gravity with minor centres in each residential neighbour-

A programme must be prepared to guide development operations.

### ELEMENTS OF DESIGN

Trunk or first-class roads will link the town with region and country. The great sweeping curves can enhance the rural landscape. Details should be simple yet bold—to match the grand sweeps of the

The road must be designed with the land-scape—not embellished after the engineer-

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The main roads within the town might

The main roads within the town might well be treated as parkways with buildings set well back. The main pedestrian routes should pass under or over them.

The residental roads can show infinite variation in design. The design of carriageway, services, verges and planting between buildings will call for close co-operation between engineer, landscape architect and planner.

Cul-de-sacs are the devil if the ubiquitous pedestrian cannot get out at either end.

# THE RESIDENTIAL NEIGHBOUR-HOODS: SOCIAL BASIS

The dominant unit in each residential neighbourhood will be the family house. Given a free choice in Utopia it is more than likely most families would plump for the detached house. There will be some required in each neighbourhood.

Many will say the semi-detached is the

quired in each neighbourhood.

Many will say the semi-detached is the next best thing. The Regency Architects and the Early Victorians knew how to handle them. We ought to be downright ashamed of the millions of mock-Tudor boxes we built between the wars.

The terrace house is the most neighbourly and urbane. In the mind of the millions it is associated with the sordid and sanitary bye-law street. A good deal more effort in design is necessary if we are to perfect the mit alone. unit plan.

In every residential neighbourhood there should be groups of houses for the old folk. And hostels for single person families.
Nobody really loves the lodger. With a
decent economic status the housewife can
relegate the lodger to music-hall folklore.
Let us build flats for those who want them.

The family dwelling is the basic unit. But people are social beings. This will be ex-pressed in the grouping of dwellings. Here is tremendous room for experiment.

### LANDSCAPE IN THE RESIDENTIAL AREAS

Let us return for a few moments to Landscape Architecture in the residential neighbourhoods. The shape of the ground and existing trees will help mould the

The combination of common garden and private garden is an English contribution. The Americans have used this combina-

tion in a variety of ways.

We have made our modest contribution.

At Welwyn Garden City there are many fine examples of the close—generally with houses grouped round a common lawn with the fenced private garden at the back of the house.

Lawns, hedges, trees, bushes and foot-paths are essential elements in the com-position of dwellings grouped round the

common garden.

The Institute of Landscape Architects has published a study of domestic gardens—common and private. There are many interesting combinations to be tried.

In concluding this brief review do not let us forget the roof garden; with its privacy and extended view.

### URBANITY

A few words about the lost art which once produced urbanity. Designers and builders

obeyed civilised rules. The straightforward solution with no conscious striving after an effect which would make you go one better than your neighbour was at the root of the matter. Knowledge of proportion and craftsmanship did most of the rest. It is probably easier to achieve in the larger blocks of flate.

blocks of flats.

The urbane can be achieved in the most open parts of the plan. This block of flats has most of the virtues of a fine, quietly dignified mansion in a park—yet it is for large working-class families.

### NEIGHBOURHOOD PLANNING

Whether they like it or not people in a town have neighbours. They are bound to have many common interests. Their children will go to school together; mothers will shop at the same centre; fathers will swop stories over a pint at the local. Now if these simple factors recognized resi if these simple facts are recognised, resi-dential neighbourhoods can be planned so that the daily needs of the family can be within five minutes of every home.

Neighbourhood planning ideas are now universal. In Amsterdam, for example, the town is extended by very carefully studied neighbourhoods. The rich variety of types of accommodation and social buildings are

set in an extensive landscape scheme.
The County of London Plan and the Greater London Plan carried the neighbourhood planning idea into reconstruction schemes, hitherto piecemeal and opportunist.

In every residential neighbourhood the child is the most precious human being. For too long we have thought in terms of houses to the acre and street schedules. Even in the new suburbs children are left to play in the streets—major and minor. More than four children a day are killed on the roads.

There should be play spaces (tot lots—Amer.) and a well designed neighbourhood system of playgrounds for children of all

system of playgrounds for children of all ages.

In the heart of every neighbourhood the primary school will be one of the most important buildings. No main roads should be crossed on the journey between home and school. Fine trees are an asset in the school and playground layout.

The total land requirements for all the educational establishments in a town of 60,000 is somewhere in the region of 300 acres. Nearly 5 acres per 1,000 population!

The major focus of neighbourhood life will be in the centre where a wide variety of shops should be planned with a cinema theatre, community or social centre, pubs and religious buildings completing the picture. Many new arrangements of these common buildings ought to be tried. common buildings ought to be tried.

### PROVISION FOR VEHICLES

The people's car is near at hand. The problem of giving shelter to them in their hundreds is a ticklish one. I am tempted to think the garage compound is the most flexible solution. Sites for them should be provided, though the cars are yet to come. Garages might well be placed at the ends of culs-de-sac—not to close the view, for they can be a messy sight.

### WORK PLACES

The idea still prevails that industrial areas in a town must be collections of dirty, smelly buildings jumbled together in a smoke laden atmosphere. People like Cadbury showed the way forty years ago. At Bournville the factory is set in park-like surroundings; playing fields and lawns strewn with daffodils are adjacent to the works

works.

In a New Town, where industrial balance is of prime importance, there should be a wide variety in types of industry. This will be expressed in architectural terms. Detailing the harmonious but cannot be ing must be harmonious but cannot be

standard.

standard.

The landscape in the industrial area is as important as in any recreational area. After all, nearly one quarter of the population is going to spend the best part of every day in the workplaces of the industrial area. I would like to see glass wailed factories with operatives at the bench conscious of the presence of nature; and spacious lawns between factories where they may disport at lunch time.

The central areas of our industrial towns

The central areas of our industrial towns are unusually sordid. They could present a scene rich and vivid like the mediæval

market place.

The busiest part will contain the shops, restaurants, banks, pubs and stores. Ample provision must be made for the parking of cars.

Partaking of food and drink should be a joyous affair. A view of nature aids the flow of digestive juices as well as con-

### MAIN RECREATIONAL AREAS

From the air a New Town should present a vivid green pattern. Major open spaces will cross the site. In some parts we might rediscover the joys of the Sunday moining promenade.

Allotment gardens, providing most useful recreation, are a blot on the most urban landscapes. They need not be so. They can be orderly and rhythmic if so designed. There will be viewpoints in every New Town. What better ending to a climb than admiration of the view from a restaurant?

admiration of the view from a restaurant?
From the general to the particular design must be carefully studied. The smallest details may make or mar a scene. The ubiquitous garden wall became a shocking and shoddy affair in the 20th century. There are more ways than one of making a wall.

I hope the New Towns will have their modest little monuments in appropriate settings. They need not be weeping angels or statesmen in togas. They can be scintillating and beautiful, giving pleasure to those who pass them.

I also hope that life will be such fun that the sculptor will once more be asked to express the joy of a happy people and that the fine spirit of the baroque will find its place.

I would like to conclude, Mr. Chairman, with a quotation from Milton (not because I feel learned, but because I found it in the dictionary and it seems particularly appropriate).

"Streit mine eye hath caught new pleasures
Whilst the lantskip round it measures."

# LMBA

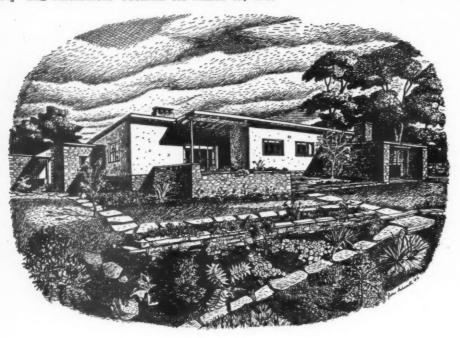
# Apprentices

In order to encourage boys leaving school In order to encourage boys leaving school this year to take up apprenticeship in the building industry, the London Master Builders' Association is organising a series of visits, as soon as the weather permits, to selected building jobs in the London area, so that the boys may see for themselves just what building really means.

Apprentices are wanted in all trades, but the tendency at present is for boys to select

the tendency at present is for boys to select carpentry and joinery. To create a balanced industry, apprentices are badly needed in all the other trades, and particularly at the present time in bricklaying and tiling.

The boys will go to the jobs selected in organised parties, and it is hoped that the various operations in progress will be explained to them by a representative of the contractor doing them. The visits have the endorsement of the London Reginal Joint Apprenticeship Committee.





# The designer of this house was faced with a problem only too common under present conditions. How to design a house which will eventually be a balanced building, a part of which only can be built to-day. Mr. Ashworth has built a two-bedroom house and pro-poses to add a further bedroom, dressing room and bathroom, a large play-room and a garage with boiler house and fuel store as circumstances allow. The site is an odd, though interesting, shape. CONSTRUCTION.—The portion already built is in 11-in. cavity brickwork, rendered, with a stone plinth and stone retaining walls to the terrace, the materials being obtained from demolished nearby farm buildings. The roof is 3 in. asphalte on insulating fibre board over a joisted and boarded roof. The ceilings are of fibre board, skim plastered. Floors, cork tiles on a concrete sandwich floor.

# HOUSE

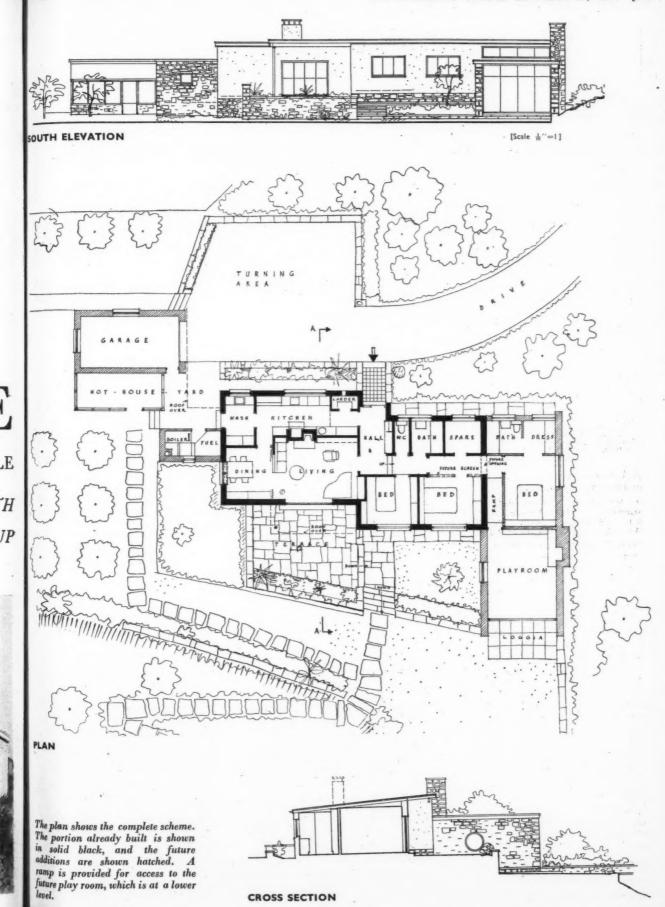
CHADWICK HALL ROAD, ROCHDALE

DESIGNED BY JOHN A. ASHWORTH

OF THE GRENFELL BAINES GROUP



View of completed portion from the south-east.



# TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

# INFORMATION CENTRE

To enable items to be filed all information is classified under the following headings:

is classified under the following headings:

I SOCIOLOGY, 2 PLANNING; General. 3 PLANNING; Regional and National. 4 PLANNING; Urban and Rural. 5 PLANNING; Public Utilities. 6 PLANNING; Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION, 9 DESIGN; General. 10 DESIGN; Building Types. 11 MATERIALS; General. 12 MATERIALS; General. 12 MATERIALS; Metal. 13 MATERIALS; Imber. 14 MATERIALS; Metal. 13 MATERIALS; Applied Finishes, Treatments. 16 MATERIALS; Missellancous. 17 CONSTRUCTION; General. 18 CONSTRUCTION; TOOMSTRUCTION; Octoplets Structures. 21 CONSTRUCTION; Missellancous. 22 SOUND INSULATION, ACOUSTICS. 23 MEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT MISSELLANEOUS

# 2.3 planning: general PLANNING PERSONNEL

A Manual of Recommended Personnel Standards in Public Planning. F. P. Bartlott. (American Society of Planning Officials, Chicago, 1946, no price.)

Manual prepared to assist official and planning agencies in recruiting competent planning staff. General scope of public planning. Suggested standard of duties and qualifications, salary scales and other personnel factors. Interesting document from point of view of comparative analysis.

# 12.2 materials: meta LEAD DATA

Lead Pipe and Lead Sheet. (Lead Industries Development Council. December, 1946.)

Data on Lead, Ternary Alloy No. 2 and Silver-Copper-Lead Alloy. Mainly tables abstracted from relevant B.S. 15 pp.

# 16.7 materials: miscellaneous DOUBLE GLAZING

New Type Double-Glazed Window Insulating Unit Developed. (Bulletin of the American Ceramic Society, September 15, 1946.)

Description of twin and multiple sealed air space glazing units developed by Pittsburgh Plate Glass Co. under trade name of "Twindow."

# 17.4 construction: general PRECAST R. CONCRETE

Structural Precast Reinforced Concrete.

Kurt Billig. (Cement and Concrete Association. 10s. 6d.)

Characteristics, methods and principles of design. Examples of floors, beams, complete single storey and multi-storey buildings, stairs, houses, huts, structures on railways; pipes, poles and piles; agricultural structures; bridges, arches and roof trusses; waterworks, ships and floating structures. Blocks and slabs and their various applications. Treatment of concrete. Pre-stressed products.

The idea of precasting reinforced concrete parts is nearly as old as reinforced concrete itself. Although the production of precast units has steadily increased during recent years, it still remains a low percentage of the volume of reinforced concrete work cast in situ. The advantages of precast work are fairly well known and recognized, but they may be wiped out by the cost of handling and by the difficulty of jointing. In this respect, as a result of systematic research, much progress has been made during the last two decades, particularly in USSR.

The second World War also gave great impetus to development in this country, culminating in the construction of the invasion harbours during the winter 1943/44.

harbours during the winter 1943/44.

Throughout the book the emphasis is laid on the question of jointing and many good solutions are given. The great variety of well selected examples shows that there is hardly any field of application of concrete in which precast work could not be adopted advantageously.

It is perhaps due to lack of space that the combination of prefabricated units with parts cast in situ has not been dealt with as fully as might be expected from the author's remarks on p. 3, and that important types of construction, such as the Glover system of three-hinged arches, which had many applications in this country (see No. 1,207:19.8.43), or floors in tubular spun beams (see No. 1,341:30.12.43) have not been included. The chapter on dwelling houses is confined to systems known before the war, and new systems developed in recent years, like Orlit, Airey, Stent, etc., are not mentioned. Nevertheless, the book is a valuable and stimulating source of information and fills a gap in existing technical literature.

# 19.5 construction: details FOUNDATIONS: BORED PILES

A New Form of Bored Pile. H. Glossop and I. S. Greeves. (Concrete and Constructional Engineering, December, 1946, pp. 344-351.)

Bored pile in ground chemically injected. Comparative tests show smaller settlement than with ordinary bored piles, but no increase in load bearing capacity.

# 19.6 construction: details FOUNDATIONS: PILED

Piled Foundations. Elements of Theory and Practice. G. W. Froggatt. (Journal of the Institution of Municipal and County Engineers, December, 1946. Vol. LXXIII, p. 222.)

Elementary introduction to piling, useful to architects as a descriptive survey omitting involved theory given by structural textbooks. Includes short descriptions of well-known proprietary piling systems and of driving methods. Discusses usefulness of types of piled foundation under varying conditions, and refers to practical examples. Certain generalisations and omissions inevitable in short treatment of involved subject, but contains useful information not easily found elsewhere. 11 diagrams.

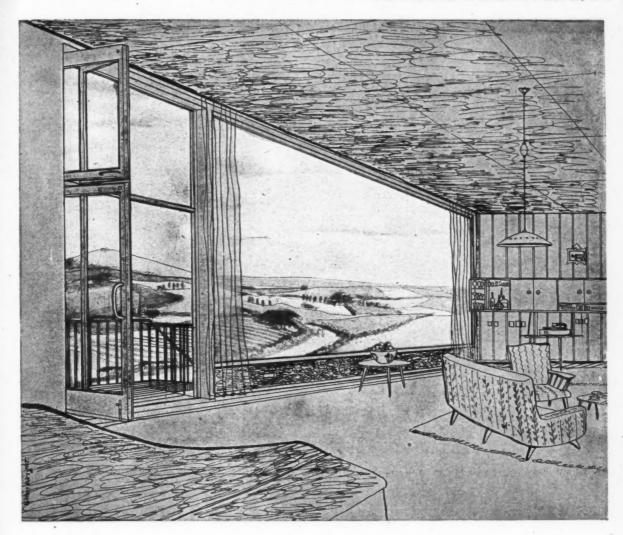
# 19.7 construction: details CRACKS IN WALLS

Practical Methods to Avoid Cracked Walls. Thomas H. McKaig. (Engineering News-





Spherical concrete-and-welded-steel dwelling in USA. The steel ribs are constructed around a large metal cylinder which carries a forced air gas heating and air conditioning unit and acts as a chimney. The flattened roof acts as a glassed-in solarium. See No. 20.10.



# BRIGHTER OUTLOOK

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be framed in hollow glass blocks; kitchens and bathrooms will be lined with coloured "Vitrolite", for glass will undoubtedly play a major part in the new architectural era. Pilkington Brothers Limited will be amply equipped to meet this demand for glass.

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Scottish Agents: JAMES R. THOMSON & CO., Ltd., 10, Blythswood Street, Glasgow, C.2 Northern Ireland Agents: CENTRAL MERCHANTS, Ltd., Upper Queen Street, Belfast THE ARCHITECTS' JOURNAL for March 13, 1947

Record, [USA] October 17, 1946, pp.

Various cases of cracking of walls due to faulty methods of design and construction.

Unsightly cracks in masonry walls, and sometimes even complete collapse, may be traced to negligent construction, and faults may occur even though the requirements of building codes are satisfied.

·A wall may be satisfactory in the com-pleted building when it is laterally supported at top and bottom but during erec-tion it acts as a vertical cantilever and may be blown down by wind. At least four such cases are known.

One of the more frequent causes of cracks is neglect of bending moments induced by the supported members. If a floor load is heavy, the span long or the wall has a large percentage of openings, cracks may appear. The resistance to bending of walls carrying concrete beams or slabs should

be at least  $\frac{WL}{48}$  above and below the point of application, where W is the total load

and L the span of the member.

Brick walls supporting concrete floors have the tendency to crack in a horizontal plane at the corners. This tendency is worse at the upper floors and worst of all at the roof. Various reasons have been advanced for this so-called "curling." One of the most likely reasons is that a strip of floor diagonally across a corner acts as a fulcrum about which the floor deflects and lifts the corner. The obvious solution is to anchor the corner to the slabs below, either by the means of rods in the brickwork or by reinforced concrete columns.

Steel beams should rest on bearing plates bedded on pads and be properly anchored. About 30 years ago, the main bearing wall of a theatre in Washington collapsed through lack of anchorage of the roof trusses; the trusses had expanded, pushed the wall outward, then contracted and slipped down the wall.

A method that will not only avoid cracks due to curling but that will also strengthen the wall to resist wind and earthquake pressure, provide adequate resistance to bending and increase its stability, is to arrange reinforcement both vertically and horizon-

Another bad practice is the cutting into bearing walls or building of chases for pipes and other accessories. Where glazed bricks are used as facing to bearing walls, they should be laid up integrally with the wall. Loading of the core before completion of the facing should be avoided.

Perhaps the most vulnerable point is the parapet. Parapets should be built of the parapet. best ma materials; impervious copings with continuous drips and waterproof joints should be used and the wall should have through flashing immediately under the

# 20.10 construction: complete structures

### SPHERICAL DWELLING

Housing Solution. (Engineering New Record, [USA] June, 27, 1946, p. 965.)

Spherical, concrete-and-welded-steel, storey dwelling, providing 2,000 sq. ft. of floor space at Runnemede, Camden County,

# 20.11 construction : complete structures AIRCRAFT FACTORY

Aircraft Assembly Hall. Architect: Eric Ross. Planning and Design Collaborators: Architect: Eric Ross. David du R. Aberdeen and P. N. Taylor. Consulting Engineers: Brian H. Colquhoun and Partners. (The Architec December 12, 1946, pp. 431-4.) (The Architects' Journal.

Assembly hall for giant aircraft now being built at Filton, 3 bays of 345 ft. span each, apex 117 ft. above floor. Main steel trusses; tied two pin arches at 50 ft. centres.

# 20.12 construction : complete structures

### LIBRARIES

Library Construction for Interchangeable Uses. (Architectural Record, USA, Nov., 1946, pp. 115-6.)

Design based on a cubic module. Hollow columns and twin beams with perforated webs allow for air conditioning. amples demonstrating principles of design.

# 21.3 construction: miscellaneous

# REPAIRS TO TIMBER ROOF

Timber Trusses of Cathedral Roof Sup-ported by Outside Cantilever Beams. (Engi-neering News-Record, [USA] November 28, 1946, p. 720-1.)

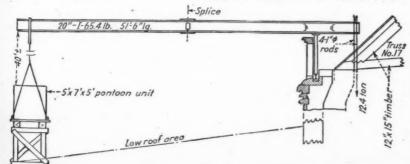
Repair of timber trusses and stonework of St. Patrick's Cathedral on Fifth Avenue, New York City, without interference with

The deterioration of the masonry corbel supporting the timber trusses and rotting the timber made it necessary to pick up and support the roof section while the masonry beneath the capstones was cut out and replaced and while structural reinforcing was framed and tightened about the weakened ends of the trusses. The load of the trusses at the intersection of the nave and transept was picked up by four 50 ft. cantilever beams. An accurately framed structural steel encasement was put at the rotted ends.

# 22.2 sound insulation and acoustics

# SOUND REDUCTION: EFFECT OF

Jungle Acoustics. C. F. Eyring (Junior



Arrangement used to repair cathedral roof. A war surplus pontoon unit was loaded to balance the trusses and then the temporary hanger rods were tightened until a piece of paper would just slide between the timber and the old masonry corbel. See No. 21.3.

# TECHNICAL SECTION

Acoustical Soc. America, October, 1946, p. 257.)

Sound reduction in tropical forest areas. Specialised paper.

Sound reduction data under all open-air conditions are now being collected, and uitimately will make it possible to define much more accurately the manner in which out-door noise can be reduced by town-planning measures. Trees and woodland areas may have a part to play, and in this connection the data on sound reduction in tropical forests are of interest.

### 22.3 sound insulation and acoustics

### NOISE: PHYSIOLOGICAL EFFECTS

Physics and Physiology of Acoustic Trauma. L. Rüedi and W. Furrer. (Junior Acoustical Soc. America, October, 1946, p. 409.)

Nature of hearing loss caused by various kinds of noise. Specialised paper, with some general interest.

The main interest of this paper for architects is the evidence of permanent hearing losses caused by ordinary industrial noise. A particular example from a weaving shed is quoted. The hearing loss generally takes the form of a sharp failure at about 4,000 c.p.s. This is not because that is a characteristic of factory noise, but is due to the construction of the ear.

# 23.8 heating and ventilation

# ELECTRODE BOILERS

Electricity Saves Coal. J. Jamieson, B.Sc., M.I.E.E. (Electrical Times, January 9, 1947.) Short article claiming fuel and cost saving obtainable by using electrode boilers for factory process heating in summer. Two examples quoted.

# 23.9 heating and ventilation

### RADIANT HEATING: SKIRTING

Installing Radiant Baseboard. (Plumbing and Heating Journal, [USA] November 1946.)

Abstracts from Burnham Boiler Corporation, Irvington, N.Y. booklet. General information, diagrams of installation details with useful practical comments on this new type of installation.

### 23.10 heating and ventilation

# UNIT HEATERS: TESTING; RATING

Standard Code for Testing and Rating Unit Heaters Using Steam. (Unit Heater Manufacturers' Association publication No. 1/1946. 2s. 6d. [2s. 8d. post free.])

Code intended to form basis for manufacturers' ratings. Codes for Unit Heaters operated on other heating media to follow.

# 25.9 water supply and sanitation

### PREFABRICATED PLUMBING

The Plumbing Unit: Some Advantages and Disadvantages. John Wilton. (The House Builder, November, 1946: Vol. 5, p. 243.) Assessment of argument for and against prefabricated plumbing units. General conclusion that present designs possess important disadvantages, notably transport difficulties, lack of flexibility in relation to house plan, inadequate access for maintenance. Suggests partial rather than complete prefabrication as most promising line for development. 10 illustrations.



F

# PRICES

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

London. In the past, prices for materials have been expressed as a percentage over pre-war rates. This practice is no longer being continued as it is felt that pricing by references to pre-war standards can now be considered obsolete. Detail prices of materials are given quarterly.

									BASIC PRICES AND RATES OF WAGES, 1947	
	BASIC MATERIALS							Jan.	Feb.	
Portland cement (6 tons and o	ver)							 per ton	55/-	55/-
Bags								 99	7/-	7/-
in. unscreened ballast							9 0	 per yd. cu.	14/-	14/-
letton bricks (at station)								 per 1,000	70/-	70/-
toneware drain pipes (British	standa	ard,	2 tons and	d over)				 Standard list +	371%	37½%
								 per 1,000	90/- + 90%	90/- + 90%
steel joists (basic sections ex n	nills)							 per ton	£16 12s.	£16 12s.
ime greystone					0.0	4.4		 * * 99	74/9	74/9
Sheet lead (5 cwts.—1 ton lots								 99	£85	£85
fron rainwater goods and soil	pipes							 List 3100 AB +	54%	54%
White lead paint			• •				* *	 per gallon	36/3	38/9
RATES OF WAGES (London)									Jan.	Feb.
Within 12 miles radius										
Craftsmen								 per hour	2/71	2/71
Labourers								 	2/11	2/11
rom 12-15 miles radius								"	-	-,
Craftsmen								 	2/7	2/7
Labourers								 	2/1	2/1

Prices of materials above include for delivery to site in the Central London Area. Current rates of ages outside London are as follows:—

Tawais F.S.I., F.I.Arb.

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

# QUESTIONS AND ANSWERS

separate blocks of buildings, in close contact.

The enclosed plan shows the buildings in question.

A It is assumed that the question applies to properties outside London.

According to the Public Health Acts of 1875 (Section 4) and of 1936 (Section 343), a drain may be defined as being a pipe serv-

ing a single building and any yards and subsidiary building appurtenant thereto. A sewer may be defined as being a pipe which serves more than one building or group of buildings.

It appears, therefore, that the two 6 in. drains as shown on the sketch are sewers. In deciding whether these sewers are public or private sewers, it is necessary to know when they were constructed.

If the construction was completed before October 1, 1937 (the date of the coming into operation of the P.H. Act, 1936) the sewers will become vested in the L.A. according to the provisions of Section 13 of the P.H. Act, 1875.

If construction was completed after October 1, 1937, the provisions of Section 17 of the 1936 Act apply, and the sewers are the responsibility of the owner until such a time as the L.A. make a declaration vesting the sewers in themselves subject to certain circumstances as stated by Section 20(i), when sewers are automatically vested in the L.A.

Without further information as to the circumstances in which the cost of construction was shared by the owner and the L.A., the effect thereof cannot be gauged.

# 2885 RESPONSIBILITY FOR SEWERS

Q I should be pleased to have an opinion as to whether a drain in a certain position may be considered a "Sewer" and if such should be the responsibility of the Local Authority.

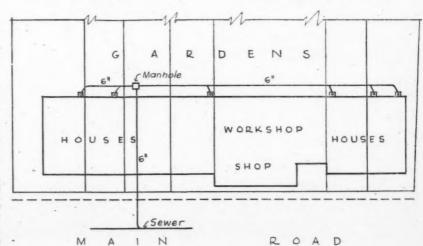
Local Authority.

There are 6 houses, a shop and a workshop all in one continuous group of buildings, the two latter being positioned in the centre with houses at each end

centre with houses at each end.
Drains from all of the separate tenancies deliver into two 6 in. main drains, which join at a manhole and then take a course at right angles, running under one of the houses, and finally joining a large sewer in the main road.

At the time the said drain from the manhole to the sewer was laid, the Local Authority contributed to the cost, or perhaps it would be better stated that the owner of the property contributed to the

The group of properties are under one ownership, though obviously a number of



The form printed below is to assist readers requiring up-to-date information on building products and services. If completed and posted to The Architects' Journal, 13, Queen Anne's Gate, S.W.I, the advertisers mentioned will be asked to supply information direct.

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# Announcements

Mr. Francis L. Rourke, P.A.S.I., F.I.A.S., wishes to announce that he has terminated his partnership with Mr. F. J. Meekins in the firm of F. J. Meekins and Partners, and is commencing in practice on his own account at 350A, Green Lanes, Palmers Green, London, N.13. Telephone No.: Palmers Green 4852.

The Miners' Welfare Commission has opened offices at 16 Oxford Street Manered Manered Medical Medical Research

The Miners' Welfare Commission has opened offices at 16, Oxford Street, Manchester, where Mr. J. H. Bourne, A.R.I.B.A., the Divisional Architect, would be glad to receive trade catalogues.

The Administrative Offices of Messrs. Fisher and Ludlow, Ltd., have been moved to Albion Works, Kingsbury Road, Erdington, Birmingham, 24, telephone Erdington 2141, 20 lines.

2141, 20 lines.

Messrs. Thomas W. Ward, Ltd., Albion Works, Sheffield, have purchased the whole of the share capital of Birchley Rolling Mills, Ltd., Oldbury. The company will continue to operate under the present name. Messrs. H. W. Secker (Chairman and Managing Director), C. Leslie Fry, W. W. Hickman, R. B. Trotman, S. J. Dyal, A. J. Wainford and P. T. Ward have been appointed Directors of the Company. The address of the Area 8 (Bristol) Office of the Timber Control is now 11, Glaucester Row, Clifton, Bristol, 8. Telephone: Bristol 36871. Telegrams: Timbrarea. Bristol.

been appointed Directors of the Company. The address of the Area 8 (Bristol) Office of the Timber Control is now 11, Glaucester Row, Clifton, Bristol, 8. Telephone: Bristol 36871. Telegrams: Timbrarea, Bristol. Messrs. Body, Son and Fleury, architects and chartered surveyors, of 22, Lockyer Street, Plymouth, and 36, Victoria Street, Westminster, S.W.I, have taken into partnership Mr. G. J. S. Smith, F.S.I., A.R.I.B.A., chartered surveyor and chartered architect. The existing partners, who continue with the firm, are Mr. F. G. Fleury, O.B.E., F.S.I., and Mr. G. G. Dingle, F.S.I. The title of the firm will remain unchanged.

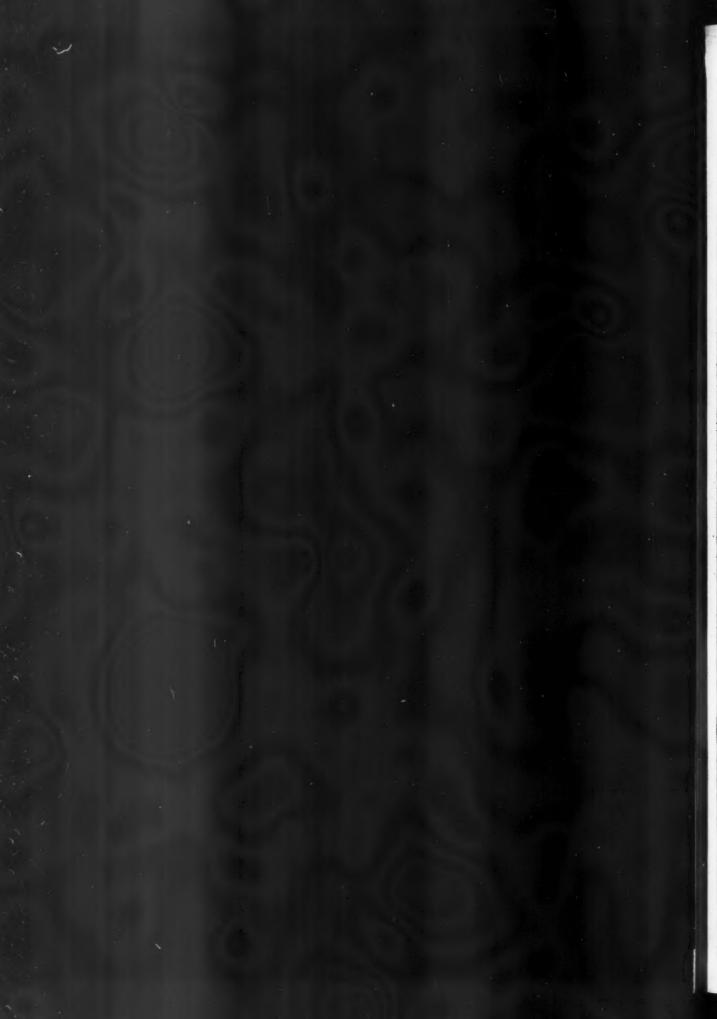
The address of the London Regional One Ministry of Works, is now Ministry Works, London Region, 8, Cornwall Terrac Regents Park, N.W.I. Telephone: Museum 5030. Telegraphic Address: Tanvaurre, Norwest, London. The following section of the Ministry of Works Regional Officer (except Contracts and Finance); Regional Officer (except Contracts and Finance); Regional Progress Officer; Regional Director (Controls); Local Authority Liaison; Regional Allocation Officer; Regional Director (Production of Materials) Regional Director (Production of Materials) Regional Programme and Statistics Officer; Regional Works Transport Officer; Regional Road Motor Engineer. The address of fixed Regional Licensing Officer is 17, Cornwall Terrace, Regents Park, N.W.1. Telephone: Museum 5030. The Regional Production Officers, Messrs. Catto and Nickson, are also at Cornwall Terrace. The following sections remain temporarily in the Chycandlewick House, Cannon Street, ECA (Telephone: Mansion House 3477.) Ara Directors: Contracts and Finance; Temporary Housing Architects; Regional Quanting Surveyors; Regional Distribution Officers 9/13, King William Street, E.C.4. (Telephone: Mansion House 4353.) D.L.A (Temporary Housing); Regional Works Engineer (M. and E.). The District Office staft that have been working in association with the Regional Architect, Ministry of Health, at Hackney, Kingston and Beckenham, have now moved to Cornwall Terrace, Regens Park.

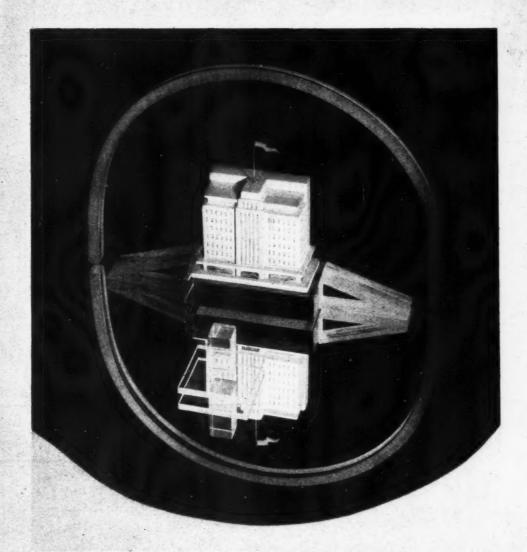
Messrs. Bryce, White and Co., Ltd, announce that, following the destruction by fire of their Test River Home Grown Timber Mill at Redbridge, Southampton, lat May, a new one has been erected and equipped with modern machinery and plant, and is now in full production again.



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# DEVELOPMENT

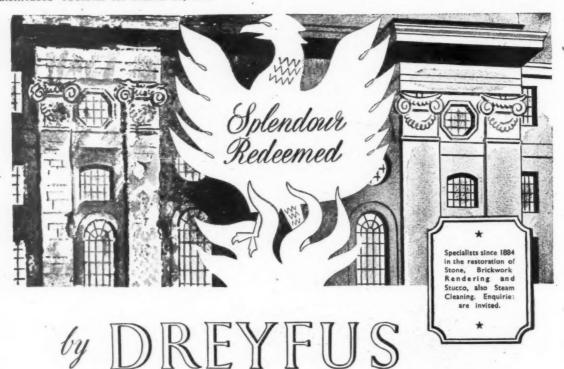
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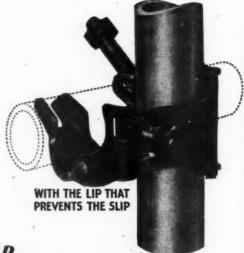
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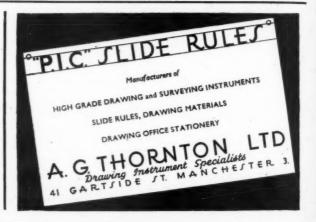
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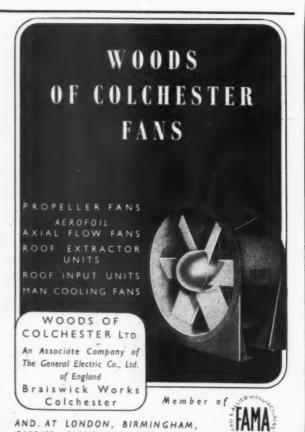
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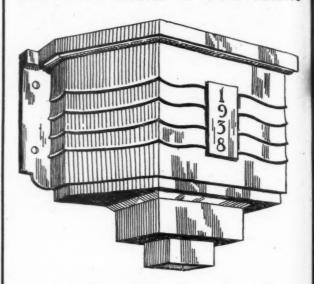
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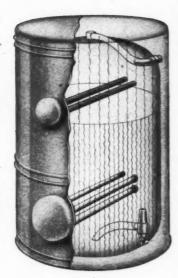


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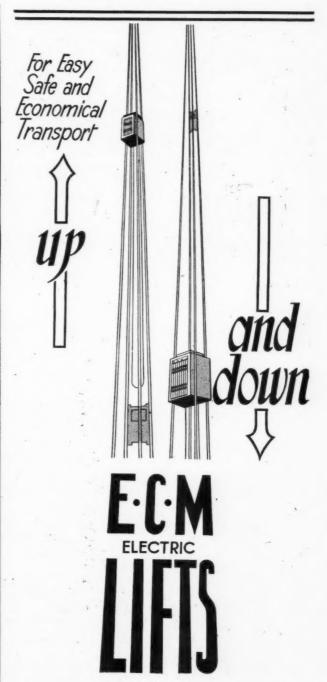
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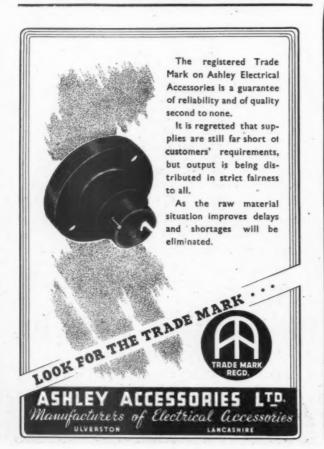
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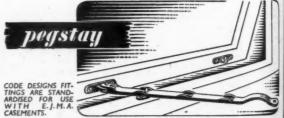
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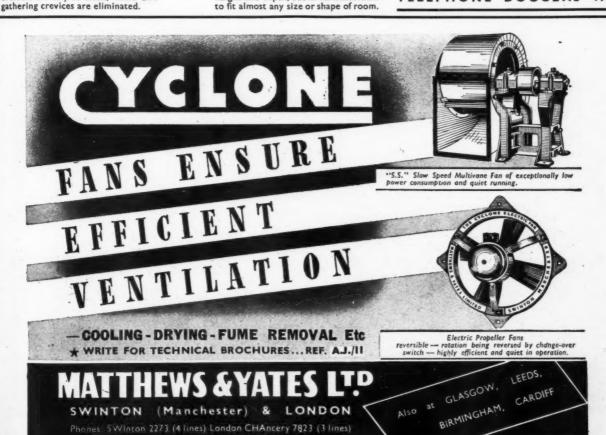
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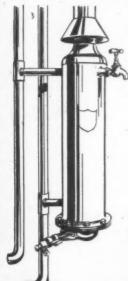
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THE ARCHITECTS' JOURNAL for March 13, 1947

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Candidates should preferably have been trained in a recognized school of architecture, and be Associates of the R.I.B.A.

Salary scales: "Assistants: Men, £315-£15-£555; women, £222-£12-£444. War service and up to 10 years' professional experience may be counted as teaching service in fixing the commencing salary. Senior Assistants: Men, £600-£25-£750; women, £480-£20-£600. Additions in all cases for architectural school training. Further particulars and application forms may be obtained by sending stamped addressed fool-scap envelope to the Director of Education, Education Offices. Leeds, 1.

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Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.
Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three testimonials, should be returned to me

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City Architect.

Weston Lodge, Seymour Road, Plymouth. 565

COUNTY BOROUGH OF SWANSEA.

ASSISTANT QUANTITY SURVEYORS.

Applications are invited for the following appointments, on the established staff, in the Borough Architect's Department:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR. Salary, Grade V. 460, rising by two annual increments of £15 and one of £20 to £510 per annum.

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(b) ASSISTANT QUANTITY SURVEYOR. Salary, Grade III, £390, rising by annual increments of £15 to £435 per annum.

The salary scales are those of the A.P. and T. Division of the National Scheme of Conditions of Service, and are exclusive of the "cost-of-living" bonus payable in addition at the will of the Council (current rate £35, per week).

Applicants for both appointments must be Professional Associates of the Royal Institution of Chartered Surveyors, having qualified in the Quantities Sub-Division, and should have had considerable experience in "taking off" in a Quantity Surveyor's Office.

Applicants must be under 45 years of age. The appointments will be subject to the provisions of the Local Government Supersunuation 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 terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Guildhall, Swansea.

Applications, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed "Senior Assistant Quantity Surveyor, III." as the case may be, must be delivered to the andersigned not later than Monday, 31st March, 1947. Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN, Town Clerk.

Guildhall, Swansea. 28th February, 1947.

CITY AND COUNTY OF THE CITY OF EXETER.

Applications are invited for the following appointments on the permanent staff of the City Architect's Department:—

(a) PRINCIPAL ASSISTANT ARCHITECT, Education Section, A.P.T., Grade VI. Salary £535 to £600 per annum.

(b) PRINCIPAL ASSISTANT ARCHITECT, Housing Section, A.P.T., Grade VI. Salary £535 to £600 per annum.

600 per annum.
SENIOR ASSISTANT ARCHITECTS,
f., Grade V. Salary £460 to £510 per

annum.
Candidates for the above posts should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications, and must have had considerable experience in Municipal Housing and/or Educational Work.
(d) STRUCTURAL ENGINEERING ASSISTANT, A.P.T., Grade IV. Salary £420 to £465

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Candidates for this post should have special qualifications and experience in reinforced concrete and steel-framed structures.

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Candidates should have considerable experience
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An endeavour will be made to find housing accommodation for those appointed to some of

accommodation for those appointed to some or the above posts.

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

medical examination.

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than the 21st March, 1947.

C. J. NEWMAN

C. J. NEWMAN, Town Clerk.

Exeter. 12th February, 1947.

Bxeter.

12th February. 1947.

BOROUGH OF ILFORD

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Borough Engineer and Surveyor's Department:—

(a) TWO ARCHITECTURAL ASSISTANTS (Grade VII. A.P.T. Division of the National Scales), ris., £575×£25 to £450 per annum, the commencing salary being within the scale according to qualifications and experience.

Applicants for these appointments should be Registered Architects and Corporate Members of the Royal Institute of British Architects, and have a thorough knowledge of Architectural works, with practical experience in the design and development of Public Buildings of all types. Housing Schemes, etc., and the preparation of specifications, and capable of supervising and controlling contracts.

(b) ONE ARCHITECTURAL ASSISTANT (Grade II, A.P.T. Division of the National Scales), viz., £360×£15 to £405 per annum. Preference for this appointment will be given to applicants who have passed a recognized professional examination.

Cost-of-living bonus—at present £59 16s, per annum—plus London weighting of £20 per annum. will also be payable in respect of each appointments.

annum. will also be payable in respect of case appointment.

The appointments will be subject to the provisions of the Local Government Superannuation Act. 1937. and the successful candidates will be required to pass a medical examination by the Council's Medical Officer of Health.

The appointments will be subject to one month's notice on either side.

Forms of application may be obtained from the Borough Engineer and Surveyor. Town Hall. Ilford. and should be returned to the undersigned not later than the 21st March. 1916.

K. F. B. NICHOLLS,

Town Hall Ilford.

Town Hall, Ilford. 24th February, 1947.

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APPOINTMENT OF DIRECTOR OF
HOUSING.
Applications are invited for the above-mentionel
appointment from duly qualified applicants, who
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of-living bonus, the present that of the conditions of appointment and duties can be obtained from the undersigned, to whom applications, accompanied by the names of three persons to whom reference can be made, must be sent not later than the 31st March, 13d.

Canvassing will disquality.

W. H. ROBINSON,

Town Clerk.

Town Hall, Luton. 26th February, 1947.

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The Corporation of Coventry invites applications from duly qualified persons for the following whole-time permanent appointments. in the City Architectural Department:—
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Vacancies exist on the following salary grades:—

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Vacancies existing on the following salary gradas:

grades:—
A.P.T. III. The salary commences at £390 per annum, and rises by annual increments of £15 to £435 per annum.
A.P.T. III. The salary commences at £360 per annum, and rises by annual increments of £15 to £405.

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Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to £38. per week for men and 188. 6d. for women.

The posts are subject to one month's notice either side, and to the provisions of the Local Government Superannuation Acts, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be required to contribute to the Coventry Municipal Officers' Widows' and Orpham' Pensions Fund.

Applications must be made on the forms obtain-

Pensions Fund.

Applications must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of no more than two recent testimonials, or names of two persons to whom reference may be made.

Canvassing, directly or indirectly, will be a discussification.

qualification.
D. E. E. GIBSON, M.A., A.R.I.B.A.,
A.M.T.P.I.,
City Architect.

14. Warwick Row, Coventry. 6th March, 1947.

CITY OF BATH.

CITY ENGINEER'S DEPARTMENT—ARCHITECTURAL SECTION
Applications are invited for the permaneal
appointment of JUNIOR ARCHITECTURAL
ASSISTANT, at a salary of £330-£375 (Grade II), depending on the qualifications and experience of the candidates interviewed.

or £360-£405 (Grade II), depending on the special of fications and experience of the candidates interviewed.

Cost-of-living bonus, at present £1 3s. per web. is payable in addition.

Applicants should have passed the Intermediate examination of the R.I.B.A., and possess experience of work on Housing.

The Corporation have recently decided to take certain steps designed ultimately to assistances and applicants for technical appointment in securing housing accommodation.

The selected candidate will be required to passes a medical examination before the appointment is confirmed, and to contribute to the Corporation's Superannuation Fund.

Applications should be addressed to the City Engineer, Guildhall, Bath, and should arrive not later than 22nd March, 1947.

They should state age, qualifications, experience, earliest commencing date, and should include copies of two recent testimonials.

Canvassing, direct or indirect, is prohibited. Relationship to a Member of the City Council, or to a Chief Official, should be disclosed.

The National Scale of Salaries and Conditions of Service have been adopted by the Council.

J. BASIL OG DEN.

Town Clerk.

Guildhall, Bath. 7th February, 1947.

COUNTY BOROUGH OF SWANSEA.

JUNIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of
a Junior Architectural Assistant, in the Borough Applications are invited for the appointment or a Junior Architectural Assistant, in the Borough Architect's Department. Salary—in accordance with the General Division of the National Scales of Salaries, viz., between £65 and £300 per annum (female)—according to age, plus cost-of-living bonus (at present £59 16s. a year for males and £48 a year for females).

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

The appointment may be terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Guildhall, Swansea.

Applications, accompanied by copies of two recent testimonials, and enclosed in an envelope endorsed "Junior Architectural Assistant," must be delivered to the undersigned not later than 3ist March, 1947.

Canyassing, directly, or indirectly, will disconsidered.

be delivered to the state of th

(Signed) T. B. BOWEN, Town Clerk Guildhall, Swansea

Guildhall, Swansea.

SOUTHERN COLLEGE OF ART (FORTS-MOUTH CENTRE), GUILDHALL SQUARE, PORTSMOUTH.

PORTSMOUTH.

Principal: W. J. L. GAYDON, A.R.C.A.
SCHOOL OF ARCHITECTURE.
Applications are invited for the under-mentioned post in the School of Architecture. Candidates should preferably have been trained in a recognized School of Architecture and be Associates of the R.I.B.A.

FULL-TIME LECTURER AND STUDIO INSTRUCTOR IN CONSTRUCTION (APPLIED AND THEORETICAL), to be mainly responsible for the work in Construction over the Three-year Course.

for the work in Construction over the Airce-year Course.

Special qualifications in Advanced Construction, Steel and Re-inforced Concrete, will be an additional recommendation.

Burnham Scale salary (men, £300—£15—£525; women, £270—£12—£420), with additions for fullitime school training and for qualifications equivalent to Graduate. War service and up to ten years' professional experience may be counted for increments in fixing commencing galary. Further particulars and application form may be obtained from the Registrar, College of Art, The Square, Portsmouth.

E. G. BARNARD, M.A.

Chief Education Officer.

Chief Education Officer.

Chief Education Officer.

Chief Education Officer.

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF JUNIOR ARCHITEC.

TURAL ASSISTANTS.

TERMS AND CONDITIONS OF APPOINT.

Applications are invited from qualified persons for the temporary appointment of Two Junior Architectural Assistants (Grade I). in the Borough Engineer and Surveyor's Department.

Preference will be given to candidates who have passed the Intermediate examination of the Royal Institute of British Architects or hold an equivalent qualification, and have general knowledge and experience of architectural work.

The salary will be in accordance with Grade I of the Council's Grading Scheme for official staff, i.e., 2300 per annum, rising by annual increments of 21s to a maximum of 2345 per annum, plus London allowance (£20) and war bonus, at present £59 16s. per annum in the case of persons over 21 years of age, but the commencing salary may be increased according to the qualifications and experience of the persons appointed.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for temporary official staff in force from time to time, and the successful candidate will be required to pass a medical examination.

Applications, on the form obtainable from the undersigned, must be delivered to the Town Clerk, together with copies of three recent testimonials, not later than the 24th March, 1947.

Canvassing will diaqualify.

(Signed) H. A. EDWARDS,

Town Hall, East Ham, E.6.

21st February, 1947.

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erk.

(Signed) H. A. EDWARDS,

(Signed) H. A. EDWARDS,

Town Hall, East Ham, E.6.

21st February, 1947.

967

COUNTY OF WILTSHIRE.

APPOINTMENT OF COUNTY PLANNING
OFFICER.

Applications are invited for the appointment of a County Planning Officer, at a salary of £1,200, rising by annual increments of £50 to £1,500 per annum, together with the appropriate cost-of-living bonus.

Applicants must be Corporate Members of the Town Planning Institute, and should also possess a recognized qualification in architecture, civil engineering or surveying. Considerable experience in the preparation and administration of planning schemes is essential.

The appointment is superannuable, subject to medical examination.

Applications, in writing, stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than the 51st March, 1947.

P. A. SELBORNE STRINGER.

P. A. SELBORNE STRINGER, Clerk to the County Council. County Hall, Trowbridge. 27th February, 1947.

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors, in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at consolidated salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

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

(b) Management of housing contracts of considerable value; interim valuations for payments.

estimates, etc.

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

accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.L. (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice.

Canvassing disqualifies. (632) 997

Hall, Westminster Bridge, S.E.I. (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice. Canvassing disqualifies. (632)

SURREY COUNTY COUNCIL.

APPOINTMENT OF CHIEF QUANTITY

SURVEYOR.

Applications are invited for the appointment of Chief Quantity Surveyor. The salary will be 2500 per annum, rising by annual increments of £25 to a maximum of £1,000 per annum.

Applicants must be members of the Surveyor's Institute (Quantities Sub-Division), and should have a wide experience in the preparation of approximate estimates and Bills of Quantities, adjustment of accounts, and other works which are incidental to the position of Chief Quantity Surveyor in a Local Government Department. The successful applicant will be experienced in the control of staff.

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

Applications, stating age, full details of previous experience, and qualifications, accompanied by copies of three recent testimonials, and the names of three referees, should be sent to the County Architect. Surrey County Council, County Hall, Kingston-upon-Thames.

OUDLEY AUKLAND.

CORPORATION OF LONDON.

CTPY SURVEYOR'S OFFICE.

APPOINTMBNT OF TECHNICAL STAFF.

Applications are invited for the following appointments, in the city Surveyor's Office:—

ARCHITECTURAL ASSISTANTS. Salary £350, inclusive of consolidated bonus.

Applications are invited for the following appointments are for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. There will be a possibility of establishment for suitable men, and temporary service will count for the purpose of superannuation. Such appointments will be required to pass a medical examination.

Provious experience with a functional Body is n

STAFFORDSHIRE COUNTY COUNCIL.
Applications are invited for the following appointments, on the Staff of the County Education Architect:

ASSISTANT ARCHITECTS.—Grade V, £460-£510; Grade IV, £420-£465.
JUNIOR ARCHITECTURAL ASSISTANTS.—Grade II, £350-£405; Grade II, £350-£405; Grade II, £350-£405.
ASSISTANT QUANTITY SURVEYOR.—Grade IV, £420-£465.

Grade 11, 2420-2465.

ASSISTANT QUANTITY SURVEYOR.—Grade IV. £420-£465.

Preference given to candidates with experience in School building. Applicants for Grade V must be members of R.I.B.A. or equivalent. Applicants for Grade II should have passed Inter. R.I.B.A. Bonus, at present £59 16s., payable in addition to foregoing salaries. All appointments will be subject to the Scheme and Conditions of Service of the National Joint Council.

Applications, stating age, qualifications and experience, accompanied by copies of recent testimenials, to be submitted to the Architect, County Education Offices, Stafford.

T. H. EVANS,

Clerk of the County Council.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECTURAL DEPARTMENT.

Applications are invited for the following appointments on the staff of the City Architectural Department, in connection with the proposed new North Staffordshire Technical College and alterations and additions to the existing College:

(a) ONE ASSISTANT ARCHITECT (Reference A/T.C.).

Salary, A.P.T. Division, Grade VII, 2575-2650.

(b) TWO ASSISTANT ARCHITECTS (Ref nce B/T.C.). Salary, A.P.T. Division, Grade £460-£510.

The above appointments carry, in addition, cost-of-living bonus, at present £59 16s. p

The above appointments carry, in addition, a cost-of-living bonus, at present £59 l6s. per annum.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the following:

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

The Committee will endeavour to arrange for suitable housing accommodation to be made available to the successful applicants if required. Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design and construction of buildings for education purposes, and possess full knowledge of the Building Megulations and Standards for School Premises of the Education Act, 1944. Preference will be given to applicants who have also had experience of technical college buildings.

Applicants for (b) should have had experience of the Education Act, 1944. And preference will be given to applicants of box buildings for education purposes, and a knowledge of the Building Regulations and Standards for School Premises of the Education Act, 1944, and preference will be given to members of the Royal Institute of British Architects.

Applications, giving date of birth, particulars of training, qualifications, details of experience, present and previous appointments with salary, with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be received by J. R. Piggott, F.R.I.B.A., Chief Architect, City Architectural Department, Kingsway Chambers, Kingsway, Stokeon-Trent, endorsed with the title of the appointment applied for, and quoting the reference number as above not later than 22nd March, 1947.

HARRY TAYLOR, Town Clerk.

Town Hall, Stoke-on-Trent. 12th February, 1947.

Town Hall, Stoke-on-Trent.

12th February. 1947.

CORNWALL COUNTY COUNCIL.
Applications are invited for the following appointments, on the established staff in the County Architect's Department:—
TWO SENIOR QUANTITY SURVEYORS.
A.P.T., Grade VII (£55-£550).
Preference will be given to applicants who are Members of the Surveyor's Institution (Quantities Sub-section), and fully experienced in the preparation of Bills of Quantities and in measuring up and in the settlement of final accounts.
TWO SENIOR ARCHITECTURAL ASSISTANTS. A.P.T., Grade V (£460-£510).
Preference will be given to candidates who are Associates, R.I.B.A.
ONE ASSISTANT BUILDING INSPECTOR.
A.P.T., Grade II (£350-£465).
Applicants must have held a similar appointment, and possess practical experience in the Building Trade.
ONE ARCHITECTURAL ASSISTANT. A.P.T.,
Grade II (£350-£465).
TWO ARCHITECTURAL ASSISTANTS.
A.P.T., Grade I (£330-£375).
A cost-of-living bonus will be paid, at present at the rate of £59 16s, a year.
The successful candidates will be required to pass a medical examination.
Forms of application may be obtained, from the County Architect, County Hall, Truro, to whom applications must be sent not later than Monday, 24th March, 1947, accompanied by copies of three recent testimonials.

E. T. VERGER.
Clerk of the County Louncil.

27th February, 1947.

CHIEF ENGINEER'S DEPARTMENT—BUILDING SURVEYORS.

Applications are invited for permanent appointment to position of first-class (a) ASSISTANT (TECHNICAL) for building survey work. The salary scale (from 1st April, 1947) will be £550, rising by annual increments of £25 to £700, and the commencing salary will be at a point on the scale commensurate with qualifications and experience.

scale commensurate with qualifications and experience.
Candidates (preferably Corporate Members of a recognized professional body) should have a good knowledge of materials and construction, and be capable of preparing estimates and specifications for cleaning and painting works, repairs, and minor alterations at hospitals and other institutional buildings.
Successful candidates will be required to pass a medical examination, and to contribute to the Council's Superannuation and Provident Fund.
Application forms may be obtained from the Clerk of the Council (D), County Hall. Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required), and must be returned not later than 14 days after the appearance of this advertisement. (654)

BOROUGH OF GRANTHAM.

HOUSING ARCHIFECT'S DEPARTMENT.

APPOINTMENT OF JUNIOR TECHNICAL

ASSISTANT.

Applications are invited for the appointment of a Junior Technical Assistant, on the permanent establishment of the Housing Architect's Department, at a salary commencing at £255 per annum, rising, subject to satisfactory service, by annual increments of £15 to £300 per annum, plus cost-of-living bonus (at present £59 16s. per annum). Applicants should be neat and accurate draughtsmen, capable of preparing working drawings and details, and well experienced in making surveys and taking levels. Experience on local authority housing schemes will be an advantage. The candidate selected will be required to pass a medical examination. The appointment is subject to the Local Government (Superannuation) Act. It may be terminated by one month's notice on either side.

Applications in writing, giving age, details of education and training, together with experience and qualifications, and copies of not more than three recent testimonials, are to be sent to the undersigned not later than Monday, 24th March, 1947.

JOHN F. GUILE,

JOHN F. GUILE, Town Clerk. Guildhall, Grantham. 6th March, 1947.

Guildhall, Grantham.
6th March, 1947.

Guildhall, Grantham.
6th March, 1947.

THE URBAN DISTRICT COUNCIL OF
KEYNSHAM.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment
of Architectural Assistant, in the Engineer and
Surveyor's Department, at a salary in accordance
with A.P.T., Grade III, of the National Scales
of Salaries, commencing at 2390 per annum, and
rising by three annual increments of 215 to a
maximum of 2435 per annum, plus cost-of-living
bonus (at present £59 15s. per annum).
Applicants must have had wide experience in
the design and preparation of housing schemes
and other architectural work, and possess a suitable technical qualification. The appointment
will be subject to one month's notice on either
side, to the Local Government Superannuation
Act, 1937, and to the submission of a satisfactory
medical report. Applications, stating age, qualifications and particulars of experience, accompanied by two recent testimonials, should reach
the undersigned not later than first post on
Monday, the 24th March, 1947.

GEO. R. ASHTON.

Council Offices, Keynsham, Bristol.

City of Peterbough.

City of Peterbough.

City Engineer and Surveyor's Department:

(i) SURVEYOR'S

DEPARTMENT.

Applications are invited for the following
appointments, in the City Engineer and Surveyor's Department:

(ii) SURVEYOR'S CLERK (Miscellaneous
Division). Grade II, 2315, rising by annual increments to 2360 per annum, plus bonus.

The duties of appointment (i) will be mainly
in connection with the erection of new Schools,
and applicants should be experienced in taking
off and preparing Bills of Quantities.

Applicants for appointment (ii) should have had
experience as clerk in a builder's office or as an
assistant in Quantity Surveyor's Office, and
should be capable of squaring, abstracting and
billing, checking builders' claims for increases
in cost of materials, and preparing monthly
schedules of same.

Both appointments are sublect to the provisions
of the Local Government Superann

dates should state whether they are to any member or senior Officer of the related Council.

Canvassing, either directly or indirectly, will

ARTHUR J. REEVES, Town Clerk.

Town Hall, Peterborough. February, 1947.

BOROUGH OF BARNES.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following temporary appointments:—

(a) ARCHITECTURAL ASSISTANT. Salary
2550 per annum, plus war bonus, at present
(b) CLEDE OF WORNES.

(b) CLERK OF WORKS. Salary £9 per week,

(b) CLERK OF WORKS. Salary £9 per week, inclusive of war bonus.

Applicants for (a) should have completed a course of training at an Architectural School or have had equivalent experience.

Applicants for (b) should have had good experience in the construction of housing schemes.

Applications, together with copies of not more than three recent testimonials, should reach the undersigned by Saturday, 22nd March, 1947.

W. R. SHEPHERD, A.M.I.C.E., A.R.I.C.S., Berough Engineer and Surveyor.

1, Sheen Common Drive, Richmond, Surrey.

24th February, 1947.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECTURAL DEPARTMENT.

Applications are invited for the following appointments on the establishment staff of the City Architectural Department:—
(a) THREE ASSISTANT ARCHITECTS (EDUCATION). Salary, A.P.T., Division, Grade VI, £535-£600.

, £535-£600. b) TWO ASSISTANT ARCHITECTS (EDUCA-ON). Salary, A.P.T. Division, Grade V, £460-

ONE ASSISTANT ARCHITECT (HOUS-). Salary, A.P.T. Division, Grade V, £460-(d) ONE ASSISTANT ARCHITECT (HOUS-VG). Salary, A.P.T. Division, Grade III, £390-

ASSISTANT QUANTITY SUR-Salary, A.P.T. Division, Grade VI,

\$\text{VELUE.}\$ Salary, A.P.T. Division, Grade VI, £535-£600.

(f) ONE STRUCTURAL ENGINEER. Salary, A.P.T. Division, Grade VI, £535-£600.

(g) ONE HEATING ENGINEER. Salary, A.P.T. Division, Grade VI, £535-£600.

All the above appointments carry, in addition, a cost-of-living bonus, at present £59 16s. per

(9) ONE HEATING ENGINEER.
A.P.T. Division, Grade VI, 2555-2600.
All the above appointments carry, in a cost-of-living bonus, at present £59 16s. per annum.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the following:

(1) One calendar month's notice on either side.
(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

The Committee will endeavour to arrange for suitable housing accommodation to be made available to the successful applicants if required. Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design and construction of buildings for education purposes, and possess full knowledge of the Building Regulations and standards for School premises of the Education Act, 1944.

Applicants for (b) should also have had experience in the provision of buildings for Education purposes, and a knowledge of the Building Regulations and standards for School premises of the Education Act, 1944, and preference will be given to members of the Royal Institute of British Architects.

Applicants for (c) should have had experience in Housing work for a Local Authority, and preference will be given to members of the Royal Institute of British Architects.

Applicants for (d) should have had experience in Housing work for a Local Authority, and have roached the Intermediate standard of the Royal Institute of British Architects.

Applicants for (e) must be Members of the Royal Institute of British Architects.

Applicants for (g) should be Members of the Institute of British Architects.

Applicants for (g) should be Members of the Institute of British Architects.

Applicants for (g) should be Members of the Institute of Heating and Ventilating Engineers, and have had experience in the design and installation plant.

Applicants for (g) should be Associate Members of appropriate professional qualifi

Town Hall, Stoke-on-Trent. 12th February, 1947.

LONDON COUNTY COUNCIL.
VACANCIES FOR ARCHITECTURAL STAFF
IN THE ARCHITECT'S DEPARTMENT.
Applications are invited for a number of positions in the following grades:—
ARCHITECT (Grade III), £550-£25-£700 a
year. (Professional qualifications required.)
TECHNICAL ASSISTANT. Section (A), £440£20-£250 a year.

Commencing rates will be according to quali-

167s. 6d. a week.

Commencing rates will be according to qualifications and experience.

Required for work in connection with the design and erection of schools and other buildings.

A number of TECHNICAL ASSISTANTS also required for the preparation of specifications and estimates for works of cleaning and painting, war damage repairs, and alterations at schools and other buildings.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for permanent appointment and for advancement to higher positions, according to merit.

Ex-Service men and women will receive special consideration.

Application forms may be obtained from the Architect to the Council, County Hall, Westminster Bridge, London, S.E.I., enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. (299) 861

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SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECTS, at a salary grade of 2390, rising to 2465 per annum, plus a cost-of-living bonus, at present £59 16s. per annum. Candidates should be Registered Architects, and preference will be given to those who have reached the Intermediate stage of the R.I.B.A.

The appointments will be subject for their termination to one month's notice in writing on either side; to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. Successful applicants will be required to pass a medical examination.

Applications, accompanied by copies of not more than three recent testimonials, should state age, qualifications, previous experience, and the present appointment of the applicant, and must be received by Mr. A. G. Chant, F.R.I.B.A., County Architect, 5, Belmont, Shrewsbury, not later than 27th March, 1947.

G. C. GODBER,

Clerk of the Council, Shirehall, Shrewsbury, 1947.

Shirehall, Shrewsbury. February, 1947.

Shirehall, Shrewsbury.

February, 1947.

LONDON COUNTY COUNCIL.

VACANCIES FOR PLANNING AND BUILDING
ACT STAFF IN ARCHITECT'S DEPARTMENT.

Applications invited for professional Grade II
positions. Candidates should possess recognized
Architectural, Surveying, or Town Planning qualifications. Salary £700-£35-£340 a year (inclusive), operative from 1st April, 1947. Commencing rate according to qualifications and experience. The work is in connection with interim
Development applications, Development of Reconstruction Areas, and preparation of revised zoning
plans. Opportunities for competing, on merit, for
permanent appointment and for vacant positions
in higher grades. Successful candidates will be
subject to the Council's Superannuation and
Provident Fund. Apply to Architect, County
Hall, Westminster Bridge, S.E.I., for form
(stamped addressed foolscap envelope necessary),
returnable within ten days. Canvassing disqualifies. (550)

qualifies. (550)

DUNDEE COLLEGE OF ART.
SCHOOL OF ARCHITECTURE.
The Governors of the Dundee Institute of Art and Technology invite applications for the position of LECTURER AND STIDHO INSTRUCTOR, mainly for Constructional Subjects. Applicants should be members of the R.I.B.A. and should preferably hold a Degree or Diploma of a recognized School of Architecture, or an equivalent qualification in their special subjects. Salary scale: Men. 2450 by 215 to 2655; women, 2400 by 215 to 2575. Placing will be according to qualifications and experience.

Applications should be made as soon as possible on the prescribed form, copies of which, with full particulars, may be obtained from the undersigned.

GEORGE H. THOMSON.

GEORGE H. THOMSON, Clerk and Treasurer.

Bell Street, Dundee. 3rd March 1947.

3rd March 1947.

Str. Two Building Maintenance of the Buildings Department, each at a basic salary of £426, rising by three annual increments of £15 to £465 a year, plus war bonus—at present £59 16s.

The posts are superannuable, and the successful candidates will be required to pass a medical examination.

Candidates must have practical experience of the building trade, be thoroughly competent in the preparation of specifications, detailed estimates and builders' quantities in connection with the maintenance of buildings, and he able to prepare drawings for minor projects. Preference will be given to Licentiates of the Institute of Builders (by examination).

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than the 29th March.

W. L. PLATTS,

Clerk of the County Council.

W. L. PLATTS, Clerk of the County Council. County Hall, Maidstone. 10th February, 1947.

BOROUGH OF REIGATE.

APPOINTMENT OF ARCHITECTURAL
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 IV of the A.P.T. Division of the National Scale of Salaries (£420-£465 per annum), plus the current cost-of-living bonus.
Applicants should have previous experience in connection with the design of buildings and estate development.

development

development.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1931, and to the passing of a medical examination.

Forms of application may be obtained from Mr. George G. Sanderson, A.M.Inst.C.E.. Borough Engineer and Surveyor, Town Hall, Reigate. on receipt of a stamped and addressed foolscap envelope. Applications, endorsed "Architectural Assistant," and accompanied by copies of three recent testimonials, must reach the undersigned not later than 3rd April. 1947.

HEBER DAVIES,

Town Clerk.

own Clerk. Town Hall, Reigate. 3rd March, 1947.

BOROUGH OF WISBECH.
BOROUGH ENGINEER AND SURVEYOR'S
DEPT.
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, Grade III, A.P.T.
Division of the National Scale, £390-£15-£435, plas cost-of-living bonus, at present £59 168. per annum.

Applicants should have had general architectural experience. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the successful candidate passing a medical examination, and to one calendar month's notice in writing on either side. The person appointed will be required to devote the whole of his time to the duties of the particular office. Applications, suitably endorsed, stating age, qualifications and particulars of experience, accompanied by copies of two recent testimonials, should be received by the undersigned not later than Saturday, 5th April, 1947. Canvassing, either directly or indirectly, is prohibited, and candidates should state in their applications whether to their knowledge they are related to any member of or holder of any senior office to, the Council.

J. E. SIDDALL, Applicants should have had general architec-

J. E. SIDPALL,
Town Hall, Wisbech, Cambs.
3rd March, 1947.

Stripton Urban District Council.
Temporary Architectural Assistant.
Applications are invited for the above appointment, at a commencing salary based on qualifications and experience, within the grade £250×£15£465 per annum (A.P. & T., Grade II), plus war bonus, at present £59 16s per annum.
The appointment will be subject to one nonth's notice on either side, and to the passing of a medical examination for superannuation purposes.
Applications, on a form to be obtained from the undersigned, giving the names and addresses of three persons to whom reference can be made, should be sent, in an envelope endorsed "Temporary Architectural Assistant," to the Engineer and Surveyor, Town Hall, Skipton, not later than first post on Wednesday, the 26th March, 1947.

K. B. ROBINSON, B.Sc.(Eng.),
A.M. Inst.C.E.,
Engineer and Surveyor.
Town Hall, Skipton.
3rd March, 1947.

Town Hall, Skipton. 3rd March, 1947.

3rd March, 1947.

BOROUGH OF TWICKENHAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for appointment on the permanent establishment of the following posts:

(1) SENIOR ARCHITECTURAL ASSISTANT.

Salary in accordance with Grade A.P.T., IVV, 240 to £530 per annum (plus war bonus). Applicants must have passed the Final Examination of the Royal Institute of British Architects.

(2) ARCHITECTURAL ASSISTANT. Salary in accordance with Grade A.P.T., III, £410-215-2455 per annum (plus war bonus). Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects.

It is desirable that applicants for the above posts shall have had some experience with a Local Authority.

It is destrative the posts shall have had some experience with a local Authority.

The successful applicants will be required to contribute to the Council's Superannuation Scheme, and to pass a medical examination.

The appointments are terminable by one month's notice on either side, and subject to the Corporation's Conditions of Service.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, are to be received by the Borough Engineer, Municipal Offices, Twickenham, not later than 10 a.m. on the 4th April. 1947.

Canvassing, either directly or indirectly, will disqualify.

W. H. JONES.

W. H. JONES, Town Clerk. Municipal Offices, York House, Twickenham.

Municipal Offices, York House, Twickenham.

March, 1947.

LONDON COUNTY COUNCIL.

Required in the Senior School of the Brixton School of Building. Ferndale Road, S.W.A.

LECTURERS in the following subjects:—(a) Structural Theory and Mechanics.

Applicants should be recommendation.

Applicants should be readulated in the following subjects:—(a) Structural Theory and Mechanics.

Applicants should be readulated in the following subjects:—(a) Structural Theory and Mechanics.

Bristing of Civil Engineering of a British University of Corporate Members of the Institution of Civil Engineers or the Institution of Structural Engineers.

(b) Building Construction and Studio Work.

Mork. Ability to teach Builders' Quantities, Builders' Accountancy, or Estimating a recommendation.

Building Construction and Sanitary Engineering subjects.

(d) Surveying.

Building Construction and Sanitary Engineering subjects.

(d) Surveying.

Applicants should be Professional Associates of the Reyal Institute of Chartered Surveyors, or hold a comparable qualification. They should be familiar with the range of subjects. included in courses of Building and Quantity Surveying.

Applicants for (a) and (d) should have had responsible experience in industry or professional practice, and for (b) and (c) hold a Higher National Certificate in Building or other suitable qualification, and must have had responsible experience in the Building Industry or allied occupation. All the above posts are temporary, pending determination of permanent fixed staff. Reasonable facilities may be allowed for research. Burnham (London) scale salaries. Application forms (stamped addressed foolscap envelope necessary) and particulars from the Principal at the Schoel. H.M. Forces personnel abroad should apply by letter. (696)

NORTH RIDING OF YORKSHIRE COUNTY
COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
PRINCIPAL ASSISTANT ARCHITECT, Grade
A.P.T., VIII, of the National Scales (£625-£700),
plus cost-of-living bonus (at present £59 16s. per

plus cost-of-living bonus (at present £59 16s. per annum).

Applicants must be Members of the Royal Institute of British Architects, qualified by examination, and must have had experience in the control of staff, organization of work, and in the design and construction of Police and other general County buildings.

Appointment terminable by two calendar months' notice on either side, and subject to the Local Government Superannuation Act, 1937, and a satisfactory medical examination.

Forms of application are not being issued, but if further information is required it may be obtained from J. Catchople, A.R.I.B.A., County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than Tuesday, the 8th April, 1947.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates should state, in writing, whether they are related to any Department or his standing Deputy.

H. G. THORNIEY.

Clerk of the County Council.

County Hall, Northallerton.

1st March, 1947.

ESSEX EDUCATION COMMITTEE.

let March, 1947.

ESSEX EDUCATION COMMITTEE.

SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART,
FOREST ROAD, WALTHAMSTOW, E.17.

DEPARTMENT OF ARCHITECTURE AND BUILDING.

STUDIO MASTER AND LECTURER IN DRAUGHTSMANSHIP.

The Governors invite applications from suitably qualified men or women for a full-time permanent post of Lecturer and Studio Master in Draughtsmanship and Technique of presentation. Ability to take classes in colour and interior architectural design and decoration will be an advantage.

architectural design and decoration will be an advantage.

The salary will be in accordance with the Burnham Scale (London allowance), which provided for increments for professional experience, approved training and graduation, where applicable. The appointment is superannuated under the Teachers' Superannuation Acts, 1925.

Applications, giving full particulars of training, qualifications and experience, accompanied by copies of three recent testimonials, and the names of three referees, should be submitted immediately to the Acting Clerk to the Governors at the College.

B. E. LAWRENCE,
Chief Education Officer.
County Offices, Chelmsford.

County Offices, Chelmsford. 523
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 positions in the following grades:—
PLANNING OFFICER (Grade III), up to £700
a year.

PLANNING OFFICER (Grade LT), as year.
TECHNICAL ASSISTANT, up to £580 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 positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.
The planning work involved includes assist-

will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.

Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall. Westminster Bridge, S.E.1, for forms of application (enclosing stamped addressed envelope). returnable not later than ten days from this date. addressed envelope). retten days from this date.
Canvassing disqualifies.

Canvassing disqualifies.

CITY OF LEICESTER.

Applications are invited for the appointment of ASSISTANT ARCHITECT, at a salary in accordance with Grade E of the Corporation scale, viz., £300 per annum, rising to £400, plus £59 16s. bonus (subject to reconsideration under National Scales). Applicants should be Registered Architects. The appointment is subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, giving age, qualifications, and details of experience, together with copies of three testimonials, should be delivered to the undersigned not later than 22nd March, 1947.

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

City Engineer.

BRADFORD EDUCATION COMMITTEE.
TECHNICAL COLLEGE, BRADFORD.
Applications are invited for appointment as Temporary ASSISTANT LECTURER, qualified to prepare students for the Sanitary Institute is essential, and additional qualifications in Sanitation and Building are desirable.
Basic salary according to the Burnham Award (£300-£25 per annum), with allowance for professional or industrial experience of £15 per annum up to a maximum of 10 years, plus a special allowance of £50 per annum.
Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed forms should be returned to the Principal of the College as soon as possible.

THOS. BOYCE,
Director of Education.
February, 1947.

February, 1947.

February, 1947.

CIVIL SERVICE COMMISSION.

The Civil Service Commissioners give notice that the competition recently announced for QUANTITY SURVEYORS in certain Departments has been extended to include about 20 vacancies in the Ministry of Works. These vacancies are in the Main Grade, salary scale in London £650×£25—£900 for men or £550×£25—£750 for women, plus consolidation addition varying from £90 (men) and £72 (women) to £105 (men) and £84 (women); in the provinces salaries are somewhat lower. Age between 30 and 50; minimum qualification Professional Associateship of the Royal Institution of Chartered Surveyors (Quantities Section).

Further particulars and application forms may be obtained by writing to the Secretary, Civil Service Commission, 6, Burlington Gardens, London, W.1, quoting No. 1771, or from the Chief Officer, Civil Service Commission, at the following addresses:—(India), 10, Underhill Lane, Delhi; (Egypt) 8, Sharia Tolumbat, Garden City, Cairo; (Germany), c/o 2nd Echelon, G.H.Q., BA.O.R. Completed application forms must reach the Civil Service Commission by 30th April, 1947 (for candidates in the United Kingdom) or 31st May, 1947 (for candidates overseas). 534

or 31st May, 1947 (for candidates overseas). 534

COUNTY OF NORFOLK.

COUNTY PLANNING DEPARTMENT.

The Norfolk County Council invite applications for the following appointments:

(1) TWO ASSISTANT COUNTY PLANNING OFFICERS, A.P. & T., Grade VII (£575-£550), plus cost-of-living bonus, £99 16s. p.a.

(2) TWO SENIOR PLANNING ASSISTANTS. A.P. & T., Grade VII (£575-£550), plus cost-of-living bonus, £99 16s. p.a.

(3) TWO INTERMEDIATE PLANNING ASSISTANTS. A.P. & T., Grade III (£390-£435), plus cost-of-living bonus, £59 16s. p.a.

Candidates for appointment (1) must have had considerable experience in all aspects of statutory planning, interim development control and planning procedure in general. Candidates should be Associate Members of the Town Planning Institute, and, in addition, should have passed the final examination of one of the following Institutions:—

Institutions of Municipal Engineers.

Planning Institute, and, in addition, should have passed the final examination of one of the following Institutions:

Institution of Municipal Engineers.
Royal Institution of Chartered Surveyors.
Royal Institution of British Architects.
Administrative experience will be an advantage.
Applicants for appointments (2) should have passed the Final Examinations of the Town Planning Institute, and should have had good general experience in Statutory Planning, Redevelopment Schemes, and the preparation of factual reports.

For appointments (3), applicants should have passed the intermediate examination of the Town Planning Institute, or an examination giving exemption therefrom, and should have a knowledge of Interim Development procedure and control, surveying, and levelling.

The appointments will be subject to the provisions of the Local Government Superannuation Act. 1937, and the satisfactory passing of a medical examination. Forms of application may be obtained from the Clerk to the Norfolk County Council. County Offices, Thorpe Road, Norwich, and should be returned to him not later than 22nd March, 1947.

CITY OF OXFORD.

ARCHITECTURAL ASSISTANT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Temporary Architectural Assistant, in the Department of the City Estates Surveyor and Architect to the Education Committee.

The salary will be from £460 to £510 per annum, according to experience, exclusive of cost-of-living bonus (at present £59 16s. per annum).

Applicants should be Associate Members of the R.I.B.A., and have had experience of School Work.

R.I.B.A., and have had expected, for work.

Arrangements can be made, if desired, for renting housing accommodation.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, should be sent to the City Estates Surveyor, Town Hall, Oxford, not later than 31st March, 1947.

HARRY PLOWMAN,

Town Clerk.

Town Hall, Oxford.

Town Hall, Leicester.

#### Architectural Appointments Vacant

Four lines or under, 5s.; each additional line, 1s. 6a.

HENRY C. SMART & PARTNERS, Architests, 180, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required.

SUBVEYORS.—London Architects have vacancies for Surveyors, with experience of war damage work; salary, £500.£625 per annum. Write, stating age, experience, and when free. Box 645.

JUNIOR (14-16) required in Chartered Architect's office; general office work, with prospects in profession. Clark, 44, Gt. Russell Street, W.C.L. Museum 4400.

Senior Architectural Assistants required for Bristol office; pages and the senior of the senio

SENIOR ARCHITECTURAL ASSISTANTS required for Bristol office; permanent progressive appointments to experienced men able to act on own initiative, and prepared to travel extensively. Apply, Mackintosh & Partners, 11, Orchard Street, Bristol, 1.

VICTOR KERR & COLBOURN, F.R.I.B.A., require Male ASSISTANT, of at least Inter. R.I.B.A. standard; surveys, working drawings, specifications; scope for initiative and responsibility; £300.£400 p.a., plus bonus. Write 7, Bedford Row, W.C.I.

Bedford Row, W.C.I.

RAUGHTSMAN required for the design and detailing of Industrial Buildings for housing Plant and Machinery, Works Offices. Laboratories, Messrooms, etc.; applicants should be capable of preparing a Bill of Quantities; minimum salary in accordance with A.E.S.D. standard. Give details of training, experience, nature of present position, salary required, and whether married or single, to United Kingdom Gas Corporation, Ltd., Bridgewater House, 60, Whitworth Street, Manchester, 1.

INTERNATIONAL Correspondence Schools require for immediate full-time employment Junior Architectural Assistant; qualified by R.I.B.A. examination. Write or 'phone (HOLborn 371), stating age, experience, and salary required, to Director of Instruction, International Correspondence Schools, 71, Kingsway, W.C.2.

A SSISTANT required by busy firm of Architects in Fife. Apply, with details of age, experience, and salary, Box 954.

A SSISTANTS required in Architect's Department of a Multiple Company in the Midlands; good prospects and permanency; applicants are requested to give details of experience, age, and salary required, to Box 942.

CRAYSON & LE SUEUR, F./A.R.I.B.A.,
Channel Islands, require immediately well-trained
and competent CHIEF ASSISTANT; all classes of
work; salary by arrangement; good living
conditions and easy access to mainland; applicants please give full details training and experience, and send drawings.

922

Perience, and send drawings.

A PPLICATIONS are invited by the Co-operative Wholesale Society, Ltd., for appointments as ASSISTANT ARCHITECTS; applicants should be good draughtsmen, with a sound knowledge of general construction, and experience in commercial and industrial work will be an advantage; salary up to £500 per annum, according to qualifications (plus cost-of-living bonus); good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating educational qualifications and experience, to be addressed to the C.W.S., Ltd., Architect's Dept., 1, Balloon Street, Manchester, 4. 953

A RCHITECTURAL ASSISTANTS required immediately in busy office (Senior and Junior); senior able to take charge of allocated jobs; state age, qualifications, experience, and salary, to Ruddle & Wilkinson, F./L.R.I.B.A., Long Causeway Chambers, Peterborough. 966

WANTED, for Channel Islands, under four years' contract, one SENIOR and one JUNIOR ARCHITECTURAL ASSISTANT; single men preferred. Write, stating age, qualifications and salary required, to Box 970.

A RCHITECTURAL ASSISTANT required immediately, in S.E. Kent practice; salary approximately £400 per annum, according to experience. Write, with full particulars, to Box 978.

TWO competent DESIGNERS and DRAUGHTS-MAN required urgently; permanent; structural steel work. Apply, stating age and experience, to Sidney Raines, Ltd., Ings Road, Wakefield.

ARCHITECT FOR FAR EAST.—Messrs.
Butterfield & Swire require fully qualified ARCHITECT for service in Hongkong or China; age not exceeding 34; single man preferred; generous salary dependent upon age, experience, on basis sterling pay, plus liberal dollar allowance, adjusted quarterly, accordance cost of living; good prospects. Apply in writing, stating age, education, qualifications, John Swire & Sons, Ltd., 8, Billiter Square, London.

A RCHITECTURAL ASSISTANT required; salary £4-£8, according to experience. JOHN ADAMS, A.R.I.B.A., 19, Founceau Road, Lopwich.

REQUIRED immediately, in country office, CHIEF ASSISTANT; qualified or equal to in ability, and experienced in all duties; able to take charge of jobs; state qualifications and salary required, with testimonials. Box 515.

A RCHITECTURAL DRAUGHTSMEN required by Westminster firm; previous experience desirable, though need not be extensive; at least three vacancies and salary will be according to age and experience. Usual details to Box 516.

AN ARCHITECTURAL ASSISTANT, aged 25/35, is required by a large industrial concern in the Manchester district: applicants must be capable of preparing from sketch plans, working drawings, details and specifications, supervising work during progress, measuring up for final accounts; the position offers good prospects and interesting work to a keen and capable assistant; experience of industrial building work essential; applications should be made in own handwriting, giving details of experience, training, qualifications, and salary required. Box 518.

WANTED, for Architect's Department of City Property Co., JUNIOR DRAUGHTSMAN; preferably over 22 years of age; salary according to ability. Box 524.

ENIOR, also ASSISTANT, ARCHITECT (permanent) required for Reading office; senior not less than 33 years old; salary up to £500; assistant, salary up to £325. Full particulars of experience, etc., to Box 536.

ARROGATE.—Old-established practice requires competent ARCHITECTURAL ASSISTANT, for drawing office; salary 26 to 29 per week, according to experience and ability; good prospects. Apply T., 8, Victoria Avenue, Harrogate.

A RCHITECTURAL ASSISTANT required immediately; salary according to age and experience. Please write, stating full particulars, to Messrs. Frank Durrant, 134, Cheapside, E.C.2.

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ESTABLISHED West End Firm of Surveyors and Valuers require the permanent services of a young qualified ARCHITECT, to take charge of their Architect's Dept., including the rebuilding of war damaged properties, the preparation of plans, etc.; good commencing salary, and excellent prospects for right applicant, who in certain circumstances might also be allowed to introduce his own clients to the practice. Apply, stating age, qualifications, experience, etc.. to Box 559.

#### Architectural Appointments Wanted

A RCHITECT'S ASSISTANT (28), 7 years' experience, seeks position with private firm, not engaged in alterations; South-East England preferred; limited capital. Box 263.

RAUGHTSMAN, living in Cyprus (colony), age 30, 10 years' experience in architectural and engineering work, drawings, building construction, surveys, levelling, setting out, office routine and supervision, requires suitable employment in the United Kingdom, preferably where facilities to study; good references; samples of work may be sent; own passage expenses. Box 261.

A RCHITECTURAL ASSISTANT position required in Southern Counties; quick and neat draughtsman; sketch plans to details; housing schemes, domestic, hotel and general conversion works; specifications and surveys; 7 years' pre-war experience. Please state salary offered to Box 267.

A SSISTANT with five years' good experience of housing and survey work, specially interested in interior work and having journalistic ability, requires progressive position requiring energetic young man. Box 266.

EX-PUBLIC School Boy (174), matriculation, attending 1st year Polytechnic evening classes, some office experience, requires position in Architect's office, preferably in London; references given. Box 268.

#### Other Appointments Wanted

Four lines or under, 2s. 6d.; each additional line, 1s.

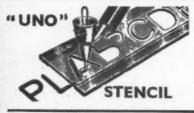
QUALIFYING ARCHITECTURAL STUDENT, willing to execute designs, details, working drawings from sketches, small surveys and tracing work, in London and West Sussex. Box 995.

A RCHITECT'S ASSISTANT seeks spare-time work; will undertake preparation of working drawings, perspectives, etc. Box 941.

PERSPECTIVES and Sketch Plans, etc., by Architect, with own office. Box 945.

LONDON, Hants, Wilts and Dorset.—
A.R.I.B.A., School trained, 20 years' experience public works, commercial, domestic, etc., offers part time assistance in own office; surveys, sketch plans, working drawings, supervision, etc.; own car. Box 968.

A RCHITECTURAL STUDENT (age 17), willing to undertake spare-time drawings, site surveys, etc., levelling; Central S.E. London, suburbs; 3 years' technical school, 14 months' office experience. Box 527.

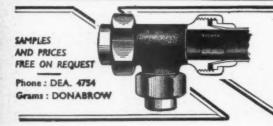


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EVENING pand week-end work required; sketch plans, working drawings, per spectives, etc. Apply Jan F. Cameron, (Dip.Arch.) (Abon.), 72, Fitzjohns Avenue, Hampstead, N.W.3.

A RCHITECT. Home Counties, requires position with London practice with view to partnership, wherein own practice can be amalgamated; experience in complete control of all types buildings. Reply, in confidence, to Box 543.

#### For Sale

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

ALL equipment of Architect's small office, including Oak Desks and Filing Cabinets, Losse Benches, drawing Equipment, etc. Box 533.

#### Miscellaneous

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Architectural and Civil Engineering
Draughtsmen, Building, Estimating, Land, Measuring and Quantity Surveyors. Write C. F. Rumble,
26/31, Whitehall, S.W.1. Tel.: Whitehall 8514.

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WE can undertake any type of Paint and Cellulose Spraying in our newly equipped spray workshop; highly decorative finishes our pucciality. M. & E. Spraying, Ltd., 71, Lots Boad, Chelsea, S.W.10. Flax 1423. 790

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DUPLICATING.—Specifications, etc., expertly duplicated or typewritten; good service; moderate fees; recommended. Miss Stone, 109, Jamyn Street, S.W.1. Whitehall 9682.

MODELS and Dioramas expertly constructed; Architectural, Town Planning, Exhibitions, ttc.; estimates on request. Randall-Page, 11s, Boyal Terrace, Southend-on-Sea, Essex.

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DOORS.—First-class Sales Organization pre-pared discuss long-term arrangement for British Isles; unusual opportunity; anticipating rentual buyers' market. Box 81, 19-21, Corpora-tion Street, Birmingham.

CENTRAL HEATING OIL BURNERS.—
Insist on the British-made Parwinac—no sloking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at more to Parker, Winder & Achurch, Ltd., Makers, M. Broad Street, Birmingham, 1.

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FIVE DAY TOUR OF SUFFOLK.—Housed at A. S. Neill's School, Leiston, April 8-13; ccat incl. coach tours and lectures, 70s.; a concrete study of the problems, methods, and possibilities of planning social development. Details from the Ethical Union, 4a, Inverness Place, W.2. 508

#### **Educational Announcements**

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R.I.B.A. QUALIFYING BXAMINATIONS.
Mr. C. W. Box, F.R.I.B.A., M.R.San.I.
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P. I.B.A. and T.P. INST. EXAMS. Private
or Courses of Tuition by correspondence
arranged by Mr. L. Stuart Stanley, M.A.,
F.R.I.B.A., M.T.P.I. Tutor, 212, Euston Road,
N.W.I. Tel.: EUS. 7764.

N.W.1. Tel.: EUS. 7766.

THE FACULTY OF SURVEYORS OF ENGLAND.

NOTICE to Quantity Surveyors:—
The Faculty's next examination in Quantity Surveying will be held in London on 26th and 27th June. 1947.

The Syllabus and Form of Application can be obtained from the Secretary, 8, Buckingham Palace Gardens, London, S.W.1. Closing date for receipt of completed form is 17th May, 1947.

#### Machinery and Plant for Sale

SPECIAL LOW PRICED OFFER.

25 TONS CONSTRUCTIONAL CHANNELS,
12 in. wide, 3 in. deep, in lengths 20 ft. New
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TWO ELECTRIC TRAVELLING JIB
CRANES, by Wimshurst Hollick. Latticed steel
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Ballast weighted. Cab control. Designed operate
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Weight each crane 15 tons. £300 each.

TWO LATTICED STEEL CRANE JIBS, from
3-ton cranes. One 70 ft. and one 60 ft. £1 10s.
per ft.

per ft.
TWO STEEL FIDDLES for 3-Ton CRANES.

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TATE MOBILE ELECTRIC CRANE. 5/10-ton lift. Fitted swan neck latticed steel jib. Full swing unit. D.C. motors fitted, but could be adopted to a.c. Cab control. Steel road wheels. Heavy shipyard crane. Trailing cable incl. Not self propelled unit. Cost £1,600. To clear £375

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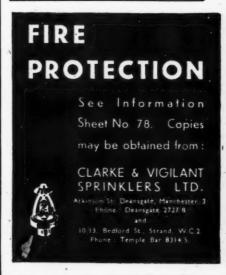
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