## ARCHIT



tandard contents

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

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HOUSING STATISTICS

Architectural Appointments Wanted . and Vacant

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

| ł  |                    | the word LONDON is implicit in the address.   |
|----|--------------------|---|
| I  | AA<br>AAI          | Architectural Association, 34/6, Bedford Square, W.C.1.  Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley,"   |
|    | ABT<br>ACGB<br>ADA | Castle Hill Avenue, Berkhampstead, Herts.  Architects' Benevolent Society. 66, Portland Place, W.1.  Association of Building Technicians. 5, Ashley Place, S.W.1.  Arts Council of Great Britain. 4, St. James' Square, S.W.1.  Aluminium Development Association. 33, Grosvenor Street, W.1.  Association for Planning and Regional Reconstruction. 34, Gordon |
|    |                    | Square, W.C.1. Euston 2158-9  Architectural Students' Association. School of Architecture, Manchester  Municipal School of Art, All Saints, Manchester, 15. Ardwick 3480  Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738   |
|    | ASB                | Architectural Science Board of the Royal Institute of British Architects.  66. Portland Place, W.1. Welbeck 5721  |
| 1  | AScW               | Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.  Grosvenor 4761   |
|    | BAE                | Board of Architectural Education. 66, Portland Place, W.1. Welbeck 5721 Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706   |
| 1  | BC<br>BCC          | Building Centre. 9, Conduit Street, W.1.  Mayfair 8641/6  British Colour Council. 28, Sackville Street, W.1.  Mayfair 8641/6  Regent 3613   |
| 1  | BCCF               | British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869   |
| 1  | BCIRA<br>BDA       | British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716 British Door Association. 43, George Street, Croydon Croydon 5452  |
|    | BEDA               | British Door Association. 43, George Street, Croydon Croydon 5452<br>British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434  |
|    | BGC                | British Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554   |
|    | BGF<br>BIA         | British Gas Federation. 1, Grosvenor Place, S.W.1.  Sloane 8266 British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.   |
|    | BIAE               | Giasgow Central 2891 British Institute of Adult Education. 29. Tavistock Square, W.C.1. Euston 5385   |
|    | BID                | British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385 Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772   |
|    | BINC               | Building Industries National Council. 11, Weymouth Street, W.1. Langham 2785  |
|    | BOT                | Board of Trade. Millbank, S.W.1. Whitehall 5140   |
|    | BRS                | Building Research Station. Bucknalls Lane, Watford Garston 2246   |
|    | BSA                | Building Societies Association. 14, Park Street, W.1. Mayfair 0515  |
|    | BSI                | British Standards Institution. 28, Victoria Street, S.W.1. Abbey 3333  Building Trades Exhibition. 4, Vernon Place, W.C.1. Holborn 8146/7   |
|    | CABAS              | City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A.,<br>Borough Architect, Town Hall, Newport, Mon. Newport 3111  |
|    | CAS                | County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury. Shrewsbury 3031   |
|    | CCA<br>CDA<br>CIAD | Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1. Sloane 5255 Copper Development Association. Kendals Hall, Radlett Herts. Central Institute of Art and Design. 41, 42, Dover Street, W.1.   |
|    |                    | Regent 3074   |
|    | CIAM               | Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322  |
| _  | CPC                | Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.  Kensington 8161   |
|    | CPRE               | Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280  |
|    | COIC               | Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.   |
| 4  | DIA                | Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540  |
|    | DOT                | Department of Overseas Trade. 35, Old Queen Street, S.W.1. Victoria 9040  |
| 7  | EC<br>EJMA         | Electricity Commission. Savoy Court, Strand, W.C.2. Temple Bar 7565 English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448   |
|    | EPNS<br>FAS        | English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837   |
| t  | FB 1951<br>FASSC   | Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Waterloo 1951 Federation of Association of Specialists and Sub Contractors.  |
|    | FBI<br>FC<br>FCMI  | 21, Tothill Street, S.W.1. Whitehall 9606 Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.   |
|    | FDMA<br>FLD        | The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.   |
|    | FMB                | Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.   |
| 95 | FRHB               | Chancery 7583 Federation of Registered House Builders. 82, New Cavendish Street, W.1.   |
| 7, | FS (Eng.)          | Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.   |
| -  |                    | Sloane 2837   |

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Georgian Group. 27, Grosvenor Place, S.W.1.

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75, Eaton Place, S.W.1.

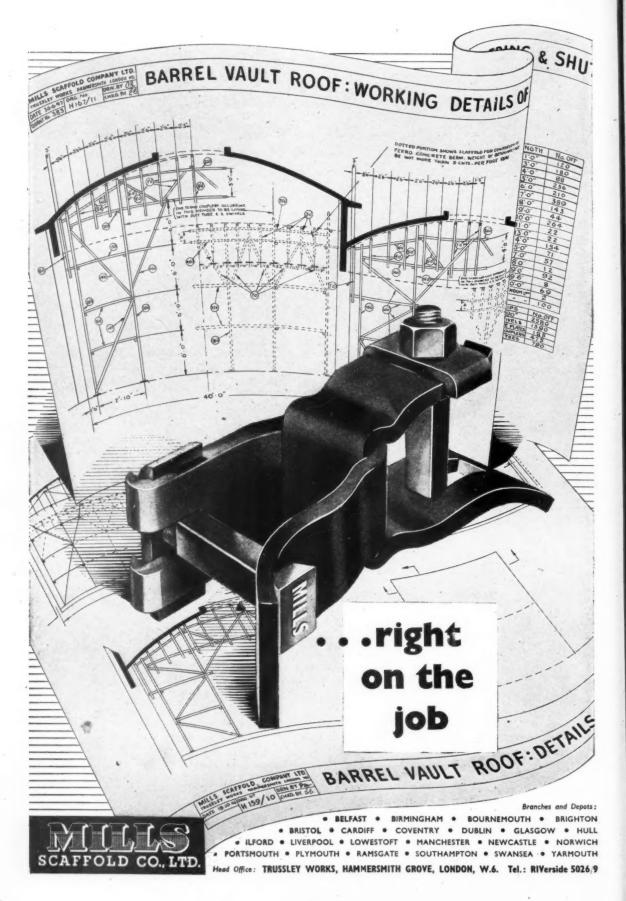
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#### POTTERY THROUGH THE AGES . NO. 16



Specially drawn by Gordon Nicell, R.I.

#### **ENGLISH SLIPWARE POTTERS**

English village potters, working with the simplest of materials and equipment, and firing their wares in primitive kilns, developed during the 17th and 18th centuries an unsophisticated but very virile type of pottery known as "slipware". This was made from coarse local buff, yellow and red earthenware clays. Simple decoration in white and coloured "slip" (i.e., semi-liquid clay) was trailed on to the surface of the ware to form raised outlines-in much the same way as an iced-cake is decorated. The surface of the ware was then usually coated with an applied yellow lead glaze.

Common kitchen crocks, very simply ornamented, formed the staple product of these village potteries, but from time to time special pieces were made—such as large dishes up to 18 inches across for festive occasions, a loving cup for a betrothal or wedding, a highly ornate model cradle for a christening, or a set of posset-pots for the local squire or innkeeper. Sometimes a loving cup or dish would be inscribed with the name of the maker, sometimes with that of the recipient. Often a motto or inscription, such as: "The best is not too good for you" would appear in raised Stylised tulips and other flowers, peacocks and quaint animal and human forms were favourite motifs. Occasionally, the design was scratched through the covering of slip to reveal the red or buff body underneath.

Such slipwares were made in many parts of the country. Among the most interesting which have survived are pieces from Wrotham, in Kent, and several made by the famous Toft family of Staffordshire. The tradition has persisted to this day in Devonshire, Sussex and elsewhere, and slipwares are still made by many well-known Studio potters.

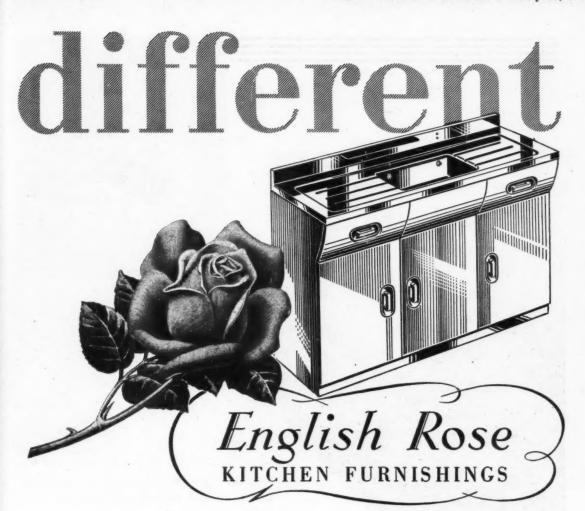
The vigorous, typically English work of the old village slipware potters, despite its many obvious limitations, provided the robust foundation for that tradition of quality and fitness for purpose which men like Whieldon, Wedgwood, Spode, Doulton and other master-potters have established in more recent times. No account of the development of pottery in this country would be complete without some tribute being paid to the slipware potters of old England.



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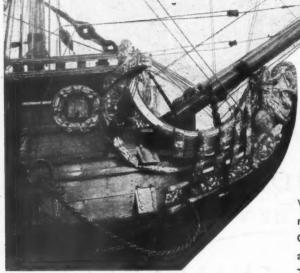
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Above. Sycamore panelling with marquetry decoration by George Ramon, in the cocktail bar of the Queen Elizabeth.
Courtesy Cunard-White Star Ltd.
Left. Figurehead of H.M.S. Prince, from a model in the Science Museum.
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## TIMBER -Old and New

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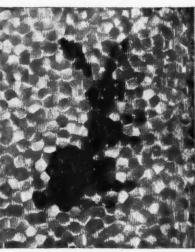
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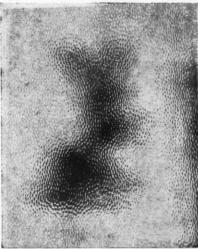
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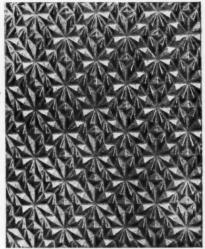
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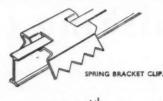
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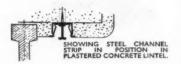
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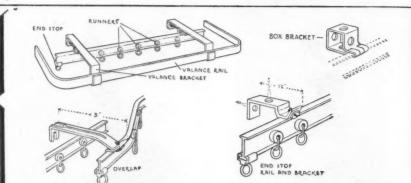






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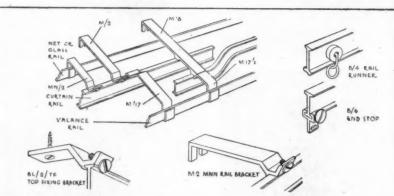
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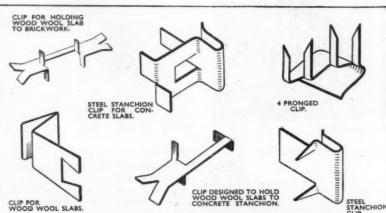
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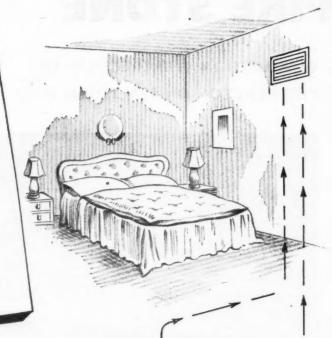
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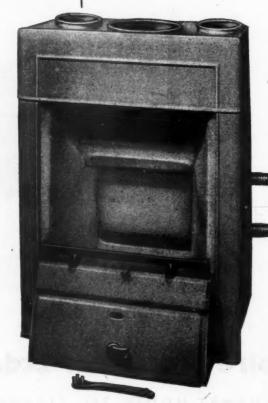
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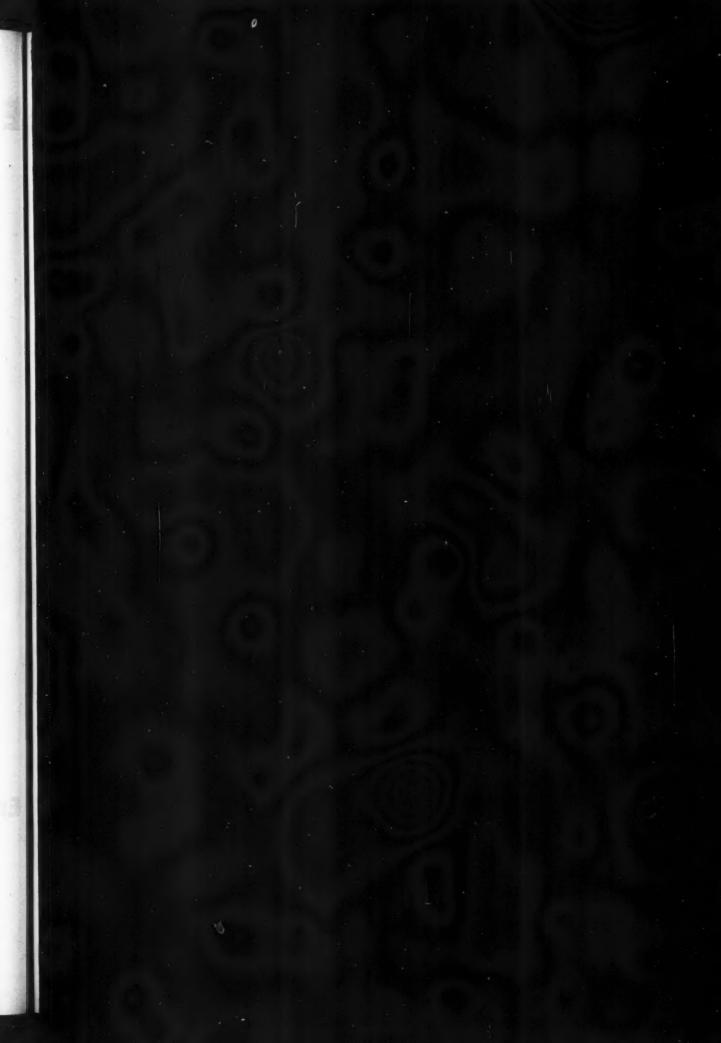






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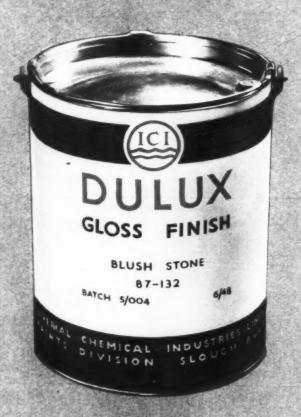


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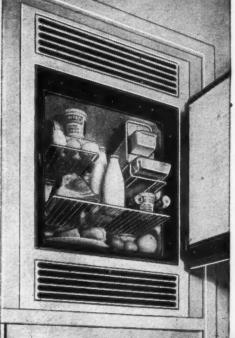
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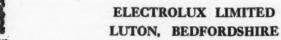
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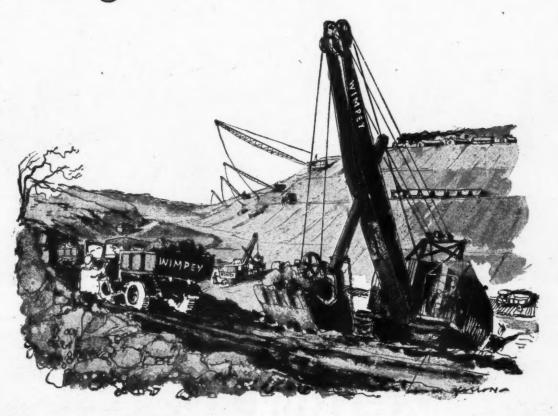
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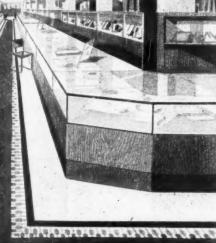
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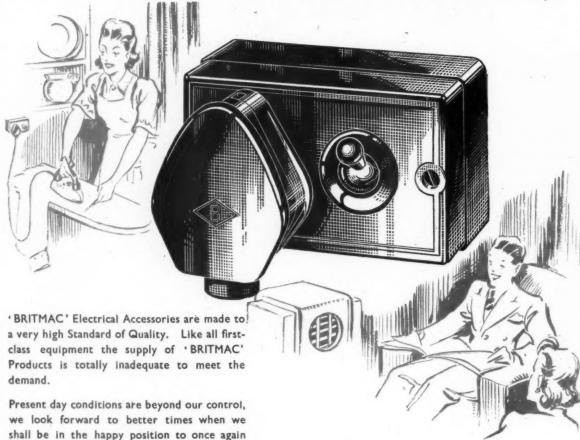
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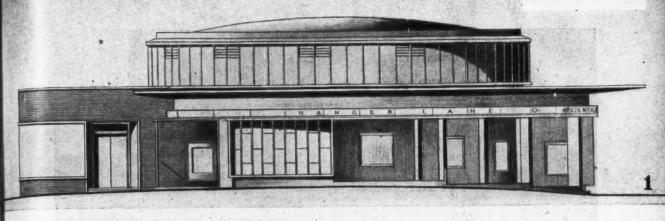
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1'-6"

9"

1'-6"

9"

1'-6"

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r.c. column

3

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

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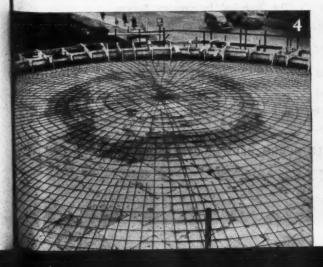
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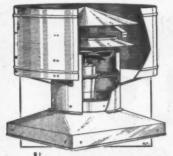
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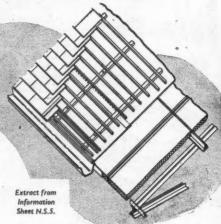
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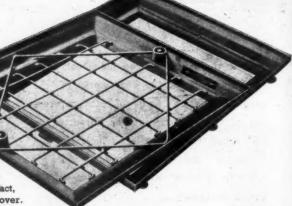
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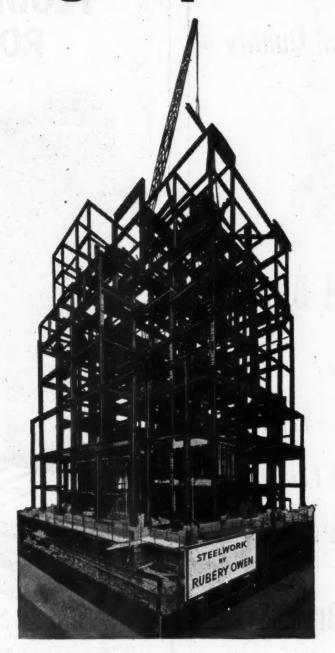


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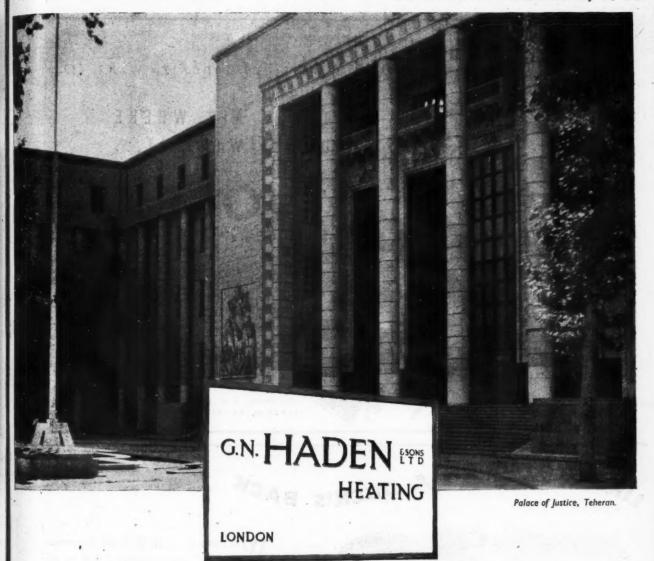
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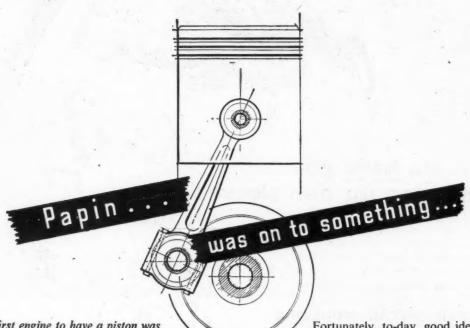
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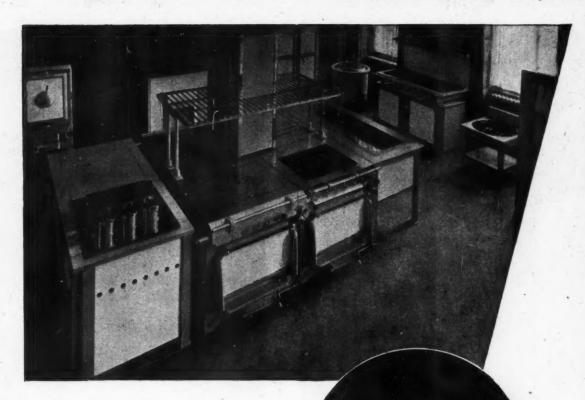
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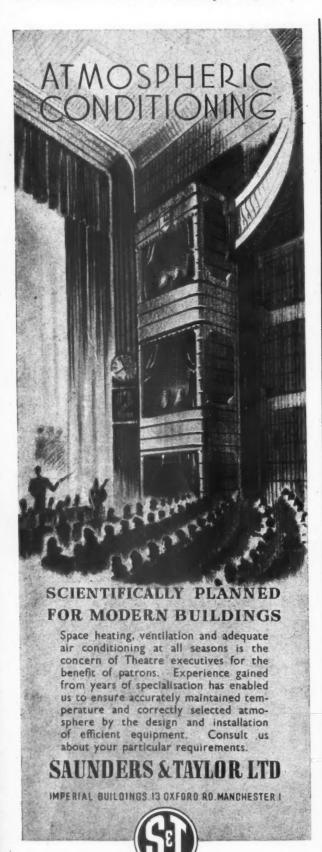
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**[153** 

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be added to the subscription list as soon as possible. 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 17s. 6d. each; carriage 1s. extra.

# DIARY FOR FEBRUARY MARCH AND APRIL

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

CIRENCESTER. Willi Soukop. Lecture on Modern Sculpture. At Bingham Library, Cirencester. (Sponsor, ACGB.) 8.15 p.m.

EXETER. S. J. Rendell. Utilization of Timber. At Central Technical College, Exeter. (Sponsor, TDA.) 7 p.m. Feb. 24

HEREFORD. Modern Craftsmanship and Design Exhibition. At the Hereford City Art Gallery. (Sponsor, CID.) UNTIL FEB. 19

L EEDS. T. Price. The New Hardwoods. At the College of Commerce, Leeds. (Sponsor, TDA.) 6.45 p.m. Feb. 21

LEICESTER. Allied Ironfounders' Exhibition Train. Fox Street Dock, adj. Passenger Station, Leicester. (Sponsor, Allied Ironfounders.) Feb. 21-26

LONDON. A Course of Lectures on Timber. D. A. Hubbard. Modern Adhesives — Their Present and Future Application. March 10. B. A. Jay. New Woods for Old—Some Alternatives to Traditional Timbers. March 21. Lectures begin at 7.15 p.m. and will be held in the Fyvie Hall at the Polytechnic, Regent Street, W.1. (Sponsor, TDA.) FEB.-MARCH

"The World from the Air." Exhibition of air photographs and air survey work, at the Alpine Chub's Gallery, 74, South Audley Street, W.1. (Sponsor, Hunting Aerosurveys, Ltd.) 10 a.m.-7 p.m. (Fridays 5.30 p.m.)

Housing in Holborn Exhibition. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.)

UNTIL FEB. 19

P. O. Reece. Timber Engineering. At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, TDA.) 6.30 p.m.
FEB. 22

Exhibition of Photographs by Members. At the Architectural Association, 34, Bedford Square, W.C.1. (Sponsor, AA.) Monday to Friday, 10 a.m. to 6 p.m. Saturday, 10 a.m. to 1 p.m. UNTIL FEB. 25

MANCHESTER. P O. Reece. Plywood. At the College of Technology, Manchester. (Sponsor, TDA.) 7 p.m. FEB. 23

NEWCASTLE. B. A. Jay. The Newer Timbers and their uses, at Newe House, Newcastle-upon-Tyne. (Sponsor, TDA.) 7 p.m.

PLYMOUTH. D. H. Evans. Timber Diseases. At the Technical College, Plymouth. (Sponsor, TDA.) 7 p.m.

S TOCKPORT. History of the British Playhouse. Exhibition at the War Memorial Art Gallery, Stockport. (Sponsor, ACGB.) UNTIL FEB. 26
T ORQUAY. D. Evans. Timber Pests and

TORQUAY. D. Evans. Timber Pests and Methods of Eradication. At the Technical College, Torquay. (Sponsor, TDA.) 7 p.m.

W EST HARTLEPOOL. J. Jowett. Softwood Timber Resources and Supplies. At the Technical College, West Hartlepool. (Sponsor, TDA.) 7 p.m. FEB. 24

WOLVERHAMPTON.

Exhibition. Allied Iron Founders.

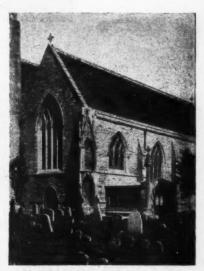
Train. (Sponsor, Allied Iron Founders.)

UNTIL FEB. 19

#### NEWS

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Two buildings of historic interest which are now in the news. Left: the Exchange Buildings, Liverpool, designed in 1865 by Thomas Wyatt, are to be demolished to prepare the way for a new £400,000 office block, which will be completed in eighteen months. During demolition an effort will be made to preserve the statues facing Exchange Flags. The group are Drake, Columbus, Galileo, Mercator, Cook and Raleigh. Right: Dorchester Abbey, Oxfordshire, from AD 634 the seat of a bishopric, for which funds are urgently needed. The present church dates from the foundation of a priory in AD 1140. With the exception of Christ Church Cathedral, the Abbey is the only survivor of the churches belonging to religious orders in Oxfordshire before the Reformation. A national appeal for £10,000 to maintain the fabric of the Abbey is sponsored by the Bishop of Oxford.



WINCHESTER COLLEGE War Memorial Cloisters, 1924. Architect: Sir Herbert Baker, R.A., F.R.I.B.A.

Other Contracts past and present include: -

Ampleforth College-Memorial Church

Ashmolean Museum (extension)

Balliol College, Oxford (extension)

Battersea Polytechnic

Bedales School, Petersfield

Besant Hall, Rodmarton Mews, for the

Theosophical Society in England

British Museum-North Wing and Library and Parthenon Room

Cambridge University Library (foundations)

Fitzwilliam Museum, Cambridge (extension)

Gresham College

Harrow School War Memorial

Jesus College, Cambridge (extensions)

Magdalen College, Oxford (extensions)

Marlborough College Memorial Hall Military College Chapel, Sandhurst

National Library for the Blind, Tufton Street

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Polytechnic, Regent Street

Richmond College (repairs)

Roedean School-Swimming Bath

Royal Merchant Navy School Chapel,

Bearwood, Berks

Saint John's School, Leatherhead

Saint Paul's Girls' School, Hammersmith

United University Club, Pall Mall

Westminster Abbey-Song School

Westminster School (reconstruction)

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#### From AN ARCHITECT'S Commonplace Book

SEMI-DETACHED HOUSES. [From Houses—The Things We See, by Lionel Brett (Penguin Books).] The trickiest problem of all raised by the modern narrow plot is the relationship of the individual house to its neighbours. That peculiarly English compromise, the semi-detached house, is open to two serious objections. First, it is wasteful of ground. Those five-yard draughty spaces between pairs could accommodate almost as many extra houses, and the space saved could go to more generous private or public gardens, or alternatively could lower the price of every house. Secondly, the continual repetition of small buildings produces a restless and boxy skyline and gives the resident that chicken-farm feeling that is an element in suburban discontent. Hence the growing movement to return to the friendly terrace, square and crescent of our Georgian tradition, with all their advantages in economy, cosiness and communal facilities. It will be interesting to see whether the Englishman's neighbourliness triumphs over his independence, or whether, as is more likely, the game is drawn.

The Corporation of London is asking Sir Giles Gilbert Scott for a preliminary REPORT ON THE REINSTATE-MENT OF GUILDHALL.

Sir Gilbert Scott is to receive a fee of 1,500 guineas, and this fee, together with fees amounting to £6,300 paid him in October, 1944, are to be merged in the commission of 6 per cent. on the cost of works if it is carried out. Before the war Sir Giles Gilbert Scott had been dealing with the question of reconstructing the various offices surrounding Guildhall itself, and the Court had actually approved some parts of the scheme to reconstruct offices abutting on Aldermanbury.

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The MARS Group announce that the first CIAM INTERNA-TIONAL SUMMER SCHOOL of Architecture will be held in London from August 8 to September 3.

The School, postponed from 1948, will be held in the AA, London, the Council having loaned studio accommodation and the use of its library and dining room. The Summer School will be under the Direction of Mr. Maxwell Fry, with Miss Jacqueline Tyrwhytt as Assistant Director and members of the MARS Group as studio tutors. Prominent members of CIAM, including M. le Corbusier, Mr. Van Eesteren, Dr. Giedion, Dr. and Helena Syrkus and Mr. Jose Louis Sert, will visit the school and deliver public lectures. Membership is limited to forty students, half drawn from nominees of the various national groups of CIAM and half from architects of post-graduate status, resident in the British Isles. The School is in no sense a conference and is not concerned to much with research as with architecture. Four main subjects for study have been drawn up in the form of fully documented programmes based upon actual sites in London within easy visiting distance. These range from housing and town planning to public buildings and each has some bearing upon current problems.

when current problems.

Mr. Dan Stanton, 34, Gordon Square,
W.C.1, the Bursar of the Summer School,
will receive applications and provide information on request. These programmes
will be issued to selected applicants so that
students may study and work on them
before the School opens. The membership
fee for the course is £5 which includes
attendance at public lectures. This nominal
fee is made possible by the generosity of
the Architectural Association, of MARS
Group members, all of whom will freely
give their services and of a group of friends
of modern architecture, which has contributed towards the essential expenses.
Students from the British Isles are requested
to find their own accommodation in London,

but the MARS Group will endeavour to provide hospitality and whatever help lies within its power.

Intending applicants should apply as early as possible to the Bursar stating their age and qualifications and enclosing evidence of their architectural ability. It is hoped that private architects or public authorities in whose employment intending students of the school may be, will think the experience sufficiently valuable both to the student and to themselves to be worth an absence of a month for the purpose.

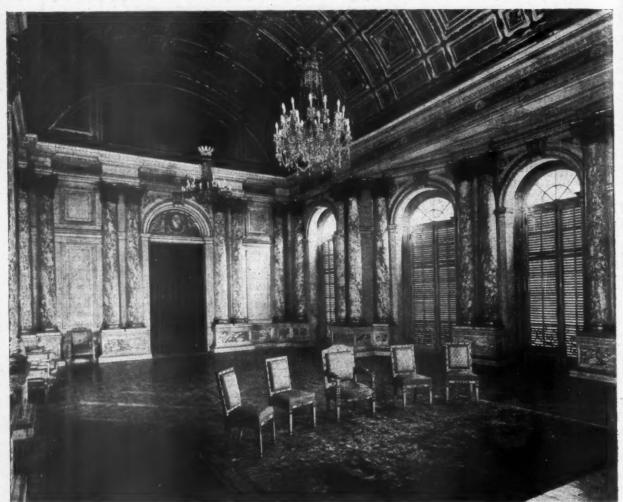
THE BUILDING APPRENTICESHIP COUNCIL HAS ISSUED TWO REPORTS entitled "Building Apprenticeship: Recruitment and Training" and "Recruitment of Masons." These reports contain recommendations which are being carefully considered by the Ministry of Works in conjunction with

other interested Departments and organizations. The recommendations include the following:—1. The objective should be an intake of 22,000 craft apprentices per annum divided in a definite ratio between the various trades. While, however, the Council have suggested a possible allocation of this total, they consider that a thorough investigation should be carried out to determine what the correct proportions should be. 2. Sufficient work of the right variety and quality should be made available to produce conditions of stability for a period ahead. 3. The Apprentice Master special training scheme under which boys carry out the whole of a building job under competent instructors, should continue under the present agreed conditions. On the special needs of masonry the Council suggest that:—1. 2½ per cent. (or 550) of the total annual recruitment of 22,000 recommended should be masons. 2. Urgent consideration should be given to the best way of providing more work in stone, and to the possibility of special financial assistance being granted to meet the extra cost of building in this medium.

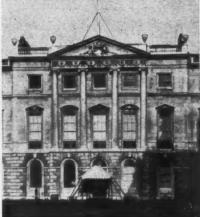




The Rosemount Square Housing Scheme (top) designed by A. B. Gardner, City Architect, Aberdeen, has been awarded the Edinburgh Saltire Society's Panel for the best designed local authority scheme, carried out between 1939-1947. The Society's minority selection was South College Street, Elgin, designed by Robert Young (left).









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#### London's New Art Gallery

This classic building in Stratford Place, Oxford Street, London, until a few years ago the property of the Earl of Derby, has been acquired by Walter Hutchinson for use as a Gallery of British Sports and Pastimes. Stratford Place was built in 1774, by the Hon. Edward Stratford, on a triangle of land bought from the City of London. His surveyor, Richard Edwin, accurately imitated the Adam style, and many of the houses have admirable interiors. Derby House, now to be called Hutchinson

House, on the axis of Stratford Place, was originally the residence of Edward Stratford, and stands on the site of the banqueting house of the Lord Mayor of London. Top: a view of the ballroom of Hutchinson House, showing the entrance and musicians' gallery. Above, left: one of the ground-floor galleries, which was originally the diningroom of the house. Centre: the main entrance of Hutchinson House. Right: the library, still used for its original purpose, contains a collection of books on British sports.

# The LCC has analysed the increase in COST OF HOUSE BUILDING since the war. The council disapproves of effecting economy by reducing the sizes of houses on the cottage estates. If costs, rents, outgoings, and Exchequer subsidies remain as at present a charge on the rates of £23 los. a house a year for 60 years will result. If the average cost of a house could be reduced from about £1,800 to £1,300, no contribution from the rates would be needed beyond the £5 los. which was assumed sufficient to meet the deficiency when the Exchequer subsidy was fixed. Suggested modifications in all new houses on cottage estates would save £52 a house. These include such economies as building houses without gas or electric fires in bedrooms, immersion heaters and thermostats, glass tiles in roofs, and concrete surrounds to ducts carrying electric cables. Houses would still be wired for immersion heaters, which tenants could provide.

# Dr. F. F. C. Curtis has been APPOINTED ARCHITECT TO THE RAILWAY EXECUTIVE. He became Lecturer in Architecture at Liverpool University School of Architecture in 1936, and was with the Southern Railway prior to this date. In March, 1947, he was appointed architect to the Great Western Railway. He was with the Royal Engineers from 1942 to 1945, and became a Staff officer at G.H.Q., India Command.

MR. CLOUGH WILLIAMS-ELLIS is to lecture for the British Council in Malta, Syria and Iraq. Mr. Williams-Ellis was chairman of the Stevenage Development Corporation from its inception in August, 1946, until August, 1947. He is a Fellow of the Royal Institute of British Architects, member of the Town Planning Institute, and a member of the committee for the Festival of Britain.



Queen Mary, accompanied by Dame Caroline Haslett visited the Building Centre on February 8. The photograph shows Queen Mary leaving the Centre, escorted by the Director, Mr. F. R. Yerbury.

#### HERD AND EGO

"The Right of a Man to Live Alone—Council Opposes 'Herd' System: The right of a man to live by himself instead of being 'herded into a communal centre' was upheld by members of Norfolk County Council yesterday. Mr. J. F. G. Roberts wants to build a bungalow in place of an existing shack on seven acres of land he owns at Stratton Strawless. The county planning committee suggested he should be found a suitable alternative site nearer a communal centre. . . . Although told by the clerk that it had no power to rescind a decision by the planning committee, the council referred back the veto on Mr. Roberts' plan to live alone." (Sunday Express, 9.1.49.)

THIS little story raises a question that planners of all people cannot ignore: to what extent should the State interfere with personal liberty? The answer should be clear. It is that the State, being merely an organization and not an organism, should exist only for the good of the individual and should curb him as little as possible. This is not universally believed. Two opposing ideas can be discerned in the world today. One might be called the Crystalline. It holds that the individual has meaning only in relation to the community, just as the elements of a crystal do not achieve meaning until joined in a definite form. The other is the Organic. Here the elements have significance in themselves and co-operate through individual qualities to satisfy community needs, which are in the end personal needs. In architecture these two ideas are symbolized in the respective works of Le Corbusier and Frank Lloyd Wright. The planners do not seem to know which attitude to adopt, but there are indications that in their search for mechanical perfection they are leaning towards the Crystalline. The engineers, because they deal with inorganic materials, tend naturally towards the Crystalline. In spite of this they make more and more use of the word Tolerance. This word is heard too rarely in planning jargon, even in England, where a liberal respect for human values and an instinctive aversion to any sort of rigid perfectionism have been the best of the national qualities. We have always tolerated our individualists, our cranks. Indeed, we have often been proud of them. This is as it should be, for all creation and all progress can only stem from the individual eccentric.

The present tendency in planning, as in all social organization, is to restrict and frustrate the individual. This is aggravated by over-centralization, one of the worst expressions of the Crystalline attitude. Bertrand Russell has been warning us repeatedly against this in his recent Reith lectures on the BBC. The more power is centralized, the less is direct human contact between individuals possible, and the less tolerance is shown for those personal foibles which can alone bring colour and purpose to living.

The ideal human society might be defined as a harmonious anarchy. But so long as there is physical shortage, the individual must be in some degree in conflict with society, and the State must retain control, for the problem of liberty is almost entirely economic. We are, however, in sight of solving the problem of adequate production, thanks to modern

science, a fact which those who adopt the Crystalline idea do

not wish to accept.

Meanwhile, a precept for the planners from Aristotle and also a slogan. The precept: "For the proper administration of justice and for the distribution of authority it is necessary that the citizens be acquainted with each other's characters, . . . where this cannot be much mischief ensues, both in the use of authority and in the administration of justice; for it is not just to decide arbitrarily, as must be the case, with excessive population." The slogan: "De-centralize. Tolerate. Let Mr. Roberts live alone."



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

EXHIBITIONS OF WORK AND PLAY

The new Government Committee is asking itself the question: What is to be done with historic houses no longer lived in by their owners? One answer is given in Stratford Place, off Oxford Street, where Derby House was opened to the public last week as the National Gallery of British Sports and Pastimes. It is henceforward to be known as Hutchinson House, and contains Mr. Walter Hutchinson's immense collection of sporting pictures, reported to have cost him £600,000.

This admirable town house in the Adam manner has been skilfully restored for the purpose, and the richly detailed interiors make a sumptuous setting for the Stubbs's, Marshalls, Morlands and the rest. They are by no means all paintings of horses; the pastimes represented range from building cardhouses to racquets and birds-nesting, and I was interested to see that the eighteenth-century practice had been followed by covering the walls with pictures hung edge to edge and row on row, so that the top row is skied just beneath the ceiling. The effect is excellent in a naïve, period way, though neither the hanging nor the cataloguing is quite scholarly enough to the collection's somewhat grandiose title.

Another exhibition visited last week, this time on aerial photographs, causes one to wonder whether architects are sufficiently aware of the potentialities of this method of recording the earth's surface. Air mosaics for supplementing and bringing up to date the ordnance survey maps of Britain have been used for many years, and have proved to be economical, accurate and often much quicker than a ground survey. Air photographs for the location of archæological sites, and mineral deposits, and for forestry and agricultural surveys are now also common practice.

There is, however, another task for which aerial survey can be of great assistance, and that is in the making of models-of new towns, roads, and housing sites. Local authorities might well consider the practice, common, I believe, in Sweden, of having a model made of their town, and insisting, before any further building is undertaken, that the proposals are tried out on the model in order that all can see, in three dimensions, just how the project will look.

HOUSING NEEDS

PEP's latest broadsheet\* deals with one of two most difficult questions which planning and housing authorities are now trying to solve: the question of how to estimate local housing needs.

\*The Assessment of Housing Needs. Broadsheet No. 293, January, 1949.

The broadsheet will be read with relief by harassed officials and committee members in spite of describing no easy solutions, for it shows how very difficult the question is. It involves the distribution of dwelling accommodation, the composition of households and housing standards; and these last have to represent some kind of balance between expert opinion, the public's inclinations and what the country can afford. Finally, although PEP does not say so, housing needs are highly explosive politically.

An examination of present distribution of housing accommodation discloses how odd is our state. The housing shortage is widespread and grievous. One town of under 80,000 population has a waiting list (crosswith neighbouring local authorities) of applicants for over 7,000 houses. Yet when the population of that town is divided by the number of existing dwellings the average number of persons per dwelling is only 3.4. From this and other information it is clear that a considerable number of houses must be "under-occupied." One sees also that PEP quote the case of Kearsley UDC, in which nearly 40 per cent. of households consist of either one or two persons, and that in other towns for which figures are given the percentage varies from 19.7 to

Any attempt to coax people to take a smaller dwelling faces the difficulty that people's needs for house space differ a certain amount and their inclinations vary widely. Nevertheless it does seem probable that it will be worth while, very soon, to build a certain number of dwellings suitable for one or two persons and to reserve them in the first place for people who will release larger dwellings by moving into them. If well designed in blocks of 25 or 50, such dwellings might not demand many more man-hours per sq. ft. than three-bedroom houses, and if this was the case the total gain would be considerable.

#### CANAL FOR SALE

The Basingstoke Canal comes up for auction on March 1. The reserve price was £6,000, but it is rumoured that this reserve has been removed. The whole canal is 37 miles long, extending from



A view of the partially derelict Basingstoke Canal between Winchfield and Odiham,

the Wey Navigation near Byfleet to Basingstoke and passing through Woking and Aldershot. Only 32 miles, however, will be auctioned, as the last five miles at the Basingstoke end have already been sold.

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It is possible that the canal could be run at a profit, though a fair amount would have to be spent in dredging and repair. Goods could still be carried from the London docks via the Thames and the Wey as far west as North Warnborough. Most of the canal is very beautiful and could be used also by pleasure boats off the Thames, especially by those seeking cheap moorings. One intelligent proposal I have heard put forward is that the Basingstoke Canal should be linked to the Kennet and Avon Canal. This could be done fairly easily and could provide a great reservoir in the sandy ground in the Bisley area to help London's water supply as an alternative to the Enborne Valley scheme.

What will, in fact, become of the canal? A sinister plan seems to be afoot by which various local authorities will acquire it with the sole object of filling it in. To try to prevent this sort of thing, a special Basingstoke Canal Committee has been formed in conjunction with the Inland Waterways Association under the chairmanship of Sir Frederick Sachse. Its aim is to

create a non-profit making trust to preserve the canal for all time for the benefit of the nation. I hear that it is about to launch an appeal for £25,000 to cover purchase, repair and maintenance.

The situation is, of course, absurd. The canal should be bought for the nation by the nation as part of the whole inland waterway system, now that most of the other canals have been nationalized. Since the Transport Commission seems to be unaware of the existence of the Basingstoke Canal, one can but wish success to the Basingstoke Canal Committee—an entirely private body.

#### LOCAL BOY MAKES GOOD

After collecting most of the architectural honours in countries other than his own, Frank Lloyd Wright is to receive next month the gold medal of the American Institute of Architects, the first time, I believe, that the award has ever gone to a non-member. And high time, too, one would think; why it should have taken so long is presumably a matter of AIA's internal politics, but perhaps it means that some of the younger and more liberal types are gradually getting themselves notices. And while I think of it, didn't Wright's early teacher, Louis Sullivan, have to wait even longer? His gold medal, so far as I remember, was posthumous.

ASTRAGAL

#### LETTERS

J. M. Austin-Smith, M.C., A.R.I.B.A., A.A. (Dip.)

#### The Lambeth Competition

SIR,—On reading the press and assessor's reports on the Leigham Court Road Housing Competition my bewilderment reached the point of incredulity. How is an architect to tackle a competition in the future? Is he to ignore all rules, byelaws, social and town planning aspects and just go in for backcloth designing?

future? Is he to ignore all rules, byelaws, social and town planning aspects and just go in for backcloth designing?

The assessor's report, taken without reference to the drawings, is startling enough. For instance, the report states: "It was hoped that a certain number of the four-roomed dwellings would take the form of cottages of two or three storeys, and it is, of course, not too late to arrange for this to be done should your Council so desire." From this it would appear that the Lambeth Council required two- or three-storey cottages, and no doubt they presumed that a competition among qualified architects would produce a finished and workable scheme. However, as a result of the competition, Lambeth Council have nothing of the sort. The onus of radically altering the scheme falls on the Council, and they are now in the unenviable position of having gone to the expense of holding a competition and still not knowing what they are going to get.

This state of affairs raises two points. Firstly, concerning the duties of the assessor in presenting the promoters' requirements to the expense of and secondly the

This state of affairs raises two points. Firstly, concerning the duties of the assessor in presenting the promoters' requirements to the competitors; and, secondly, the desirability or otherwise of the architect keeping himself fully informed of the latest developments in architectural requirements and then basing his design upon these facts.

facts.

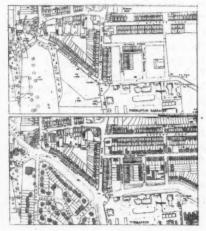
In the case of local authority housing, the assessor has access to the housing committee's lists and is in a position to assess accurately their requirements. It is surely his duty to explore the possibilities of the site and to draw up a programme which will ensure that the competitors produce these requirements. The RIBA Competitions Committee are failing the profession and the promoters if they do not ensure that this is done. In the case of the Lambeth Competition the assessor produced an extremely indecisive programme and then selected a scheme which meets neither the assessor's conditions, the promoter's requirements nor present-day housing standards.

If the architect is to ignore completely the accumulation of social and scientific facts and recommendations at everyone's disposal, what possible reason can anyone have for employing an architect? The housing manager can plan, the builder construct and the scenery painter apply the façade. It surely is the architect and he alone who must synthesize all aspects into a building. Yet in the assessor's report I was horrified to see the following admissions: "A close examination of the plans reveals that the authors are insufficiently acquainted both with the Housing Manual and the LCC building regulations. For example, the one-bedroom flats are far too small both as regards living room and bedroom, and the larger bedroom in the two-bedroom flats is well below the recognized minimum in most cases. The cottage dwellings, on the other hand, are considerably larger than necessary—the openings to the refuse ducts are in the kitchens them-





The exhibition at the Alpine Club Gallery, London, shows the large scope of aerial survey work. The photographs give two aspects which are of value to the architect and town planner. are of value to the architect and town planner. Above, the completed survey of York, built up from individual photographs (see inset, top). Below, an ordnance survey map before, and bottom, after, revision. Left, a model of Bramcote School, Notts. (Architect: E. W. Roberts), made by Hunting Aerosurvey's Ltd., the sponsors of the exhibition, and below, for comparison, an aerial view of the school's site taken while the halding was being erected. while the building was being erected.



selves, immediately adjoining the larder." In other words, the scheme does not work. The only praise the assessor gives this scheme is that "the elevations have exceptional merits and the site plan is excellent." tional merits and the site plan is excellent," and on this basis it is given second place. Is this architecture? A fine face hiding disorder?

The key to the whole matter must lie with the RIBA Competitions Committee Does the Committee still think that all is well? London. J. M. AUSTIN-SMITH

#### Parliament In

Last year saw an all-time building record for Scotland, Mr. J. J. Robertson, Joint Under-Secretary of State for Scotland, announced in the Commons. The number of permanent houses produced—just over 21,000—was more than the total for the years 1945, 1946 and 1947. In addition, there were 7,500 temporary houses, making a grand total for 1948 of some 29,000 houses.

A slight storm blew up at question-time over the work on the new buildings at Herstmonceux, which are to house the Royal Observatory on its transfer from Greenwich.

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Mr. Walter Edwards, Civil Lord of the Admiralty, informed Members that the design work at Herstmonceux was being

design work at Herstmonceux was being undertaken by a qualified architect on the Admiralty staff. They would discuss the designs with the Royal Fine Art Commission at the appropriate stage.

Mr. Henry Strauss (Con., English Universities) then reminded the Civil Lord that the Royal Observatory at Greenwich had been the work of Sir Christopher Wren. Did he not think it was essential to employ a first-rate architect from the very begin-

a first-rate architect from the very beginning of this work?

Mr. Edwards replied that the Admiralty architect held the degree of ARIBA, "We have a number of architects with that

qualification in the Admiralty, and we think they are very well fitted to carry out this work," he commented.

Brigadier A. H. Head (Con., Carshalton) demanded: "Is the hon. gentleman aware that the work so far carried out by the Admiralty architect has made this place. Admiralty architect has made this place an absolute blot on the landscape? If his department think the architect is good and

is on a level with architect is good and is on a level with architects elsewhere they should think again."
Repudiating this charge, Mr. Edwards add that some of the published photographs of the work at Herstmonceux were

graphs of the work at Herstmonceux were grossly misleading.

Mrs, Leah Manning (Lab., Epping) suggested that it would have been better to have put the project out to competition in the ordinary way, but Mr. Edwards replied that this was unnecessary. He believed that when the scheme was completed everyone would be "more or less satisfied."

Ironically, Mr. Tom Driberg (Lab., Maldon) asked whether the architect was accustomed to designing observatories or whether he was accustomed only to design ing the married quarters and barracks, which were such a pleasing feature of our dock-yard towns. Mr. E. H. Keeling (Con., Twickenham) asserted that the vandalism of the Admiralty in this matter belied the recent claim that the Labour Government was the most zealous in history in its care of historical and beautiful buildings. The last word came from Mr. Edwards, who said that the Fine Art Commission were "perfectly happy with the position as it stands at present."

The Minister of Works, Mr. C. W. Key, searched that work on the new Commons.

reported that work on the new Commons debating chamber was progressing accord-ing to programme and said there was every hope it would be ready for occupation after the summer recess of 1950.



From the north.

## SECONDARY SCHOOL SAFFRON WALDEN,

BY RICHARD SHEPPARD & J. SHUFFLEBOTHAM IN ASSOCIATION WITH; GERALD SHENSTONE AND CONOLLY, COUNTY ARCHITECT

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GENERAL.—This scheme is for a multilateral modern secondary school for 825 children. The school is to have a rural bias and greenhouses and other special accommodation are to be built. It is also to contain accommodation for further education and adult activities.

SITE.—The site is 25 acres and lies just outside Saffron Walden. A condition of the client is that the trees along the boundary are to be preserved. The majority of the children will be drawn from distant villages and will come by bus. The entrances from the road, car and cycle parks are therefore important.

PLAN .- It was laid down that :a. The school was to be built in successive stages. b. All parts must be connected by covered ways or corridors. c. Buildings should not exceed two storeys. d. The system of construction should make the minimum use of steel and building labour consistent with the purpose of the school.

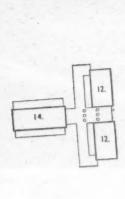
CONSTRUCTION.—An effort has been made to standardize the construction and so to reduce costs and speed erection. A standard bay

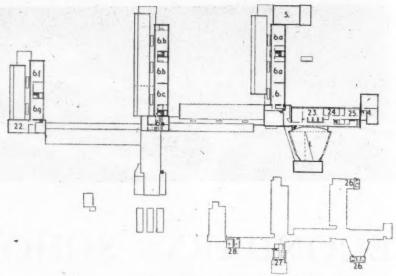
(continued on p. 164)



#### KEY TO SITE PLAN :

- A. Assembly Hall
- B. Administration
- C. Further Education
- D. Classrooms
- E. Small Hall
- F. Cloakrooms
- G. Dining Room and Kitchen H. Caretaker's House
- J. Workshops
- K. Gymnasia and Swim-ming Pool
- L. Pitches
- M. Courts
- N. Cycles
- O: Football
- P. Hockey
- R. Cricket
- S. Netball
- T Tennis



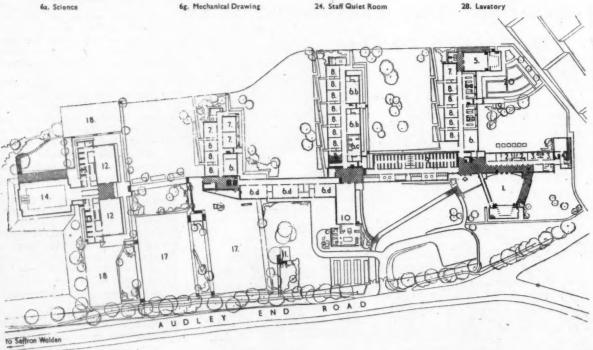


#### FIRST FLOOR PLAN (INSET, BASEMENT PLAN)

#### KEY TO FIRST FLOOR PLAN:

- I. Upper part of assembly hall
- 4. Adult Centre
- 5. Upper part of small hall
- 6. Practical Rooms
- 6a. Science
- 6b. Art and Craft
- 6c. Housecraft.
- 6e. Model Flat
- 6f. Typewriting 6g. Mechanical Drawing
- 12. Upper part of gymnasium
- 14. Upper part of swimming pool
  - 22. Music Room
- 23. Library
- 24. Staff Quiet Room
- 25. Common Rooms

- 26. Green Rooms
- 27. Boiler Room



GROUND FLOOR PLAN (Scale: 10"=1"0")

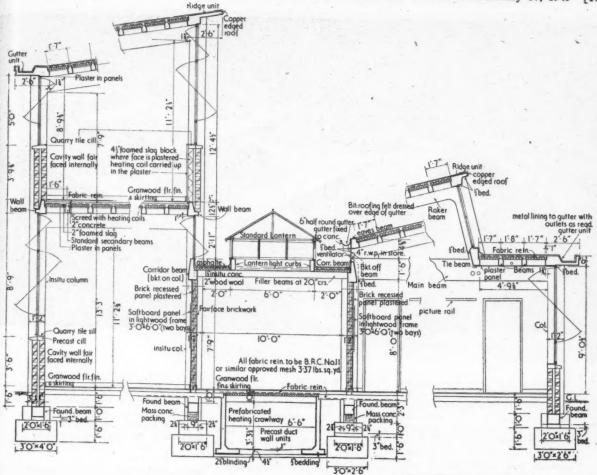
#### KEY TO GROUND FLOOR PLAN

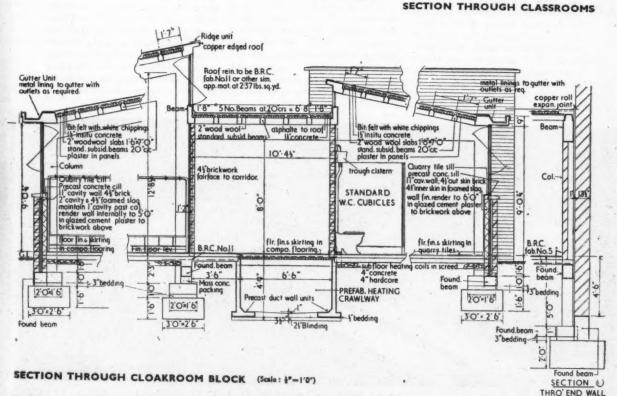
- I. Assembly Hall
- 2. Head Teachers
- 3. Medical Inspection Rooms
- 4. Adult Centre
- 5. Small Hall
- 6. Practical Rooms
- 6a. Science
- 6b. Art and Craft
- 6c. Housecraft
- 6d. Wood, Metal and Hand-crafts
- 7. Classrooms. 720 sq. ft.
- 8. Classrooms, 480 sq. ft.
- 9. Cloakrooms
- 10. Dining Hall and Kitchens 11. Caretaker's House

12. Gymnasium

- 13. Changing Rooms
- 14. Swimming Pool
- 15. Cycle Sheds 16. Car Park
  - 17. Pitch
  - 18. Court
  - 19. Greenhouse
- 20. Science Garden
  - 21. Service Yard

SECONDARY SCHOOL AT SAFFRON WALDEN





BY RICHARD SHEPPARD & J. SHUFFLEBOTHAM



From the west, and (below) the assembly hall from the east.

spacing of 10 ft. 0 in. was adopted with spans of 24 ft. 8 in. clear for all classroom and practical room blocks, and 23 ft. 0 in. for cloak-rooms. The construction consists of main cross frames in R.C. at 10 ft. 0 in. centres which butt against unit blocks at all plan junctions. These unit blocks are of solid load bearing construction and are designed to take up the expansion of the standardised classroom and cloakroom blocks which abut them. The standard cross frame has been designed to combine both precast and in-situ construction. Floors and roofs are formed from

5 in. by 4 in. precast R.C. secondary beams 10 ft. 0 in. long at 1 ft. 8 in. centres supporting lightweight slabs with 2 in. reinforced concrete topping. The 5 in. by 4 in. beams are used throughout the job and are usually exposed. This method of construction reduces the number of different concrete elements to a minimum. Standard gutter sections, copings, cills and ridges are employed Walls are of panel construction with brick or rendered finishes externally; lightweight partition slabs are used at first floor level with plaster or rendering.

INTERIOR FINISHES.—These are as follows: Walls:-plaster and fair face brickwork, building boards. Ceilings :- plaster, wood wool and building board. Floors:granolithic, quarry tile, and cork.

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HEATING .- This is by low-temperature, hot water, solid-fuel boilers, with automatic stokers. Generally, sub-floor heating by embedded panels in all classrooms. Convectors are employed in rooms not continuously in use. No pipes are exposed, but are all contained in vertical and horizontal ducts.



SCHOOL AT SAFFRON WALDEN SECONDARY

#### PHYSICAL PLANNING SUPPLEMENT

Right, a part of Scharoun's pre-war Siemensstadt development, a reminder of his contribution to Berlin's archiicture during the period when it was one of the centres of modern design.



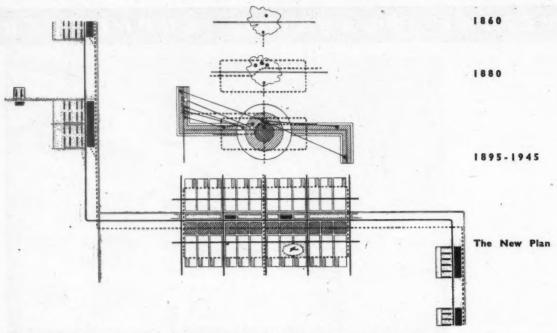
# A MASTER PLAN FOR BERLIN

Recent events have focused attention on Berlin, but only as an object of political rivalries. To millions of Berliners it is still a city of ruins and misery. There is relatively little building work going on in Germany, but for several years reconstruction plans have been appearing. Among these is a dewelopment scheme for Berlin, based on a thorough analysis of the city's problems. In charge of this work was Hans Scharoun, who was well known as an architect before the seizure of power by the Nazis, at a time when half the foreign work illustrated in English architectural periodicals was by German architects, and the work of Walter Gropius at Dessau and Berlin, and Ernst May at Frankfurt played so great a

part in the development of contemporary housing and townplanning. Scharoun participated in the designing of the Weissenhof Siedlung at Stuttgart, built blocks of flats at Siemensstadt in Berlin and was a member of CIAM. Last year an exhibition was held in Berlin of his replanning proposals for that city, some aspects of which are illustrated here. Since the exhibition was held the scheme has been rejected in favour of a scheme expressed in monumental terms, designed by a group of planners with different political connections: another instance of the present tendency, already noted in these pages, for architectural considerations to be overruled by passing political pressures.



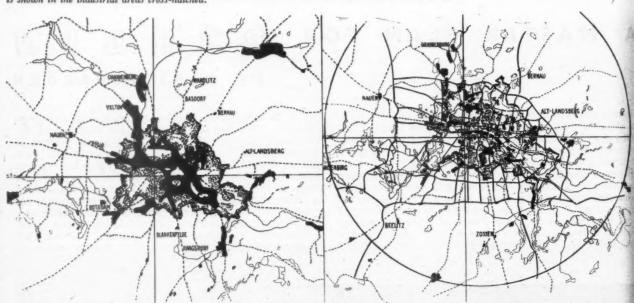
Left, a view of part of the exhibition held in Berlin from which the material for this Supplement was taken. The functions, work, transport, living, provisioning and health of the city were all the subject of detailed studies. Comparative plans were exhibited showing the pre-war situation and the modifications suggested by the Scharoun plan.



Above, a series of diagrams showing the development of industrial location as a basis for planning. is shown in the industrial areas cross-hatched.

At the bottom the Scharoun scheme

gross co



The relation between living and working areas: left, the pre-war situation, and right, those suggested for the new plan. The industrial locations are indicated by solid black and the principal living areas by a stipple.

Berlin is essentially a 19th century industrial city. Until 1830 it had grown but little since the 13th century, and it was not until 1880 that, following the Franco-Prussian war, Berlin became significant politically and industrially important in Europe. The two main features of pre-war Berlin were its comparatively open development and its woods and waterways. Some 40 per cent. of its area was building land, but in 1933 only 20 per cent. was actually built on; 13 per cent. was parks and woods, 11 per cent roads and railways, 9 per cent. cemeteries and 17 per cent. was used for agricultural purposes. In July, 1933, the population of Berlin was 4,300,000, of these, 2,800,000 were employed persons in the following categories:—

Industrial workers and artisans .... 46 per cent.
Commerce and transport .... 28 per cent.
Officials .... 10 per cent.

Industrially Berlin is significant because of the great concentration of certain light industries: for example, it has 75 per cent. of the whole German electrical industry, 66 per cent. of the film industry, 50 per cent. of gramophone production and 30 per cent. of the printing industry is concentrated there. The factories are sited along waterways, with which Berlin is liberally supplied, and along the main traffic routes. Much of the industrial equipment and buildings are modern; the headquarters of the electrical industry. Siemensstadt, is distinguished for its factory buildings and the housing developments built to accommodate its workers. In the preparation of the new plan the industrial importance of the city has been accepted as the basis for working out a more rational urban structure. Though at first accepted, political considerations have led to an academic monumental development plan being substituted.



In spite of its relatively late development as a great city, Berlin's existing road system has the same chaotic pattern as most other great cities, leading to gross congestion at the centre as shown on the plan left above. Right, the proposed new communications pattern, a combination of the grid and the ring-radial systems. Below, the general plan. Industrial areas are hatched. The living areas within the main traffic routes are divided into community groups.





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

#### TPI

#### G. Holford

February 3. At the Town Planning Institute. Paper by Professor W. G. Holford on Design in City Centres.

Professor W. G. Holford: In the past the design of important urban centres was very much a matter of building composition—formal or informal. All composition—formal or informal. All through the centuries, until quite recently, the centres of cities have been places where the centres of cities have been places where design has been most concentrated, most subsidized and most discussed. So far, as town planners, we have evolved two contemporary theories and one combination of theories to deal with this unpromising state of affairs. We have devised the Precinct; and we have imagined the Clean State—a quite rational and architectural conception under the influence of modern economic the influence of modern economic

But both theories are capable, in the technical sense, of being translated into immediate action. The combination of these two theories, and the kind of proforms the working basis of most of our recent plans for the centres of cities. A few buildings or building groups are preserved and insulated; others are swept away to make room for enormous thoroughfares, car parks or open spaces. theory can be put completely into practice with any frequency, their combination is the kind of compromise which usually carries the majority in committees and councils. The pure principle of the pre-cinct, together with the idea of extensive clearance and a new start are hammered out on the anvil of public opinion. There out on the anni of public opinion. There is some profit to be got from an analysis of city plans so as to compare the effectiveness of these two theories in execution—the precincts that never gain the strength to become really, precinctal; the clearances that do not survive the first determined applications to survive the first determined applications. plication to reinstate the wrecks of build-

ings. These are the natural ills that all physical planning is heir to. But before looking into the details, an earlier question has to be answered—a question that most of us do not want to hear at all. The question is, what justification is there for city centres of any kind, as the creations of economic surplus, or as special symbols, or as works of art? Might it not be found that, from a scientific and a technical point that, from a scientific and a technical point of view, urban concentration is unnecessary, on strategic grounds dangerous, and for reasons of health and even of survival, thoroughly unsound? If it can be proved that all the life-giving tendencies are pulling away from the metropolitan idea and towards regionalism and the small decentralized locality, the problem of design in existing city centres will not, of course, be settled. But it will help to put that problem in perspective and prevent us from basing modern plans on outworn economic foundations—a mistake which most of us have made since 1943.

economic foundations—a mistake which most of us have made since 1943.

The universal type of city is "the central place," one which provides comprehensive services for a surrounding area and in which productive surpluses are bought, exchanged and stored. In a homogeneous plain, such as parts of the Middle West of America, the great city is in the centre. America, the great city is in the centre, the major cities are spaced at even intervals the major cities are spaced at even intervals around (theoretically at the points of a circumscribing hexagon), and these in turn have smaller centres grouped symmetrically about them. The second major function of a city is when it acts as a transport centre, particularly at exchange points or when a "break-of-bulk" occurs—that is, a transfer from water to land, or mountain to plain, or rail to road. As a traffic centre a city may be supported by far more distant areas which happen to be on the line of tant areas which happen to be on the line of its transport systems. The third district and major function of a city is a specialized one. It may be mining, or manufacture, or recrea-tion. These major functions of towns usually overlap, for although a settlement may approximate to a pure type it soon gathers other functions as well. The metropolis tends to collect them all, and the reticulate, the linear and the clustered distribution of towns—corresponding roughly to the "central place," transport and specialized types respectively—combine to form a national pattern, which may appear hap-hazard, but is in reality the long resultant

The first question that arises is whether this general analysis is still a true one; and if so, whether it would result in the same is so, whether it would result in the same sort of pattern in a newly-developed region as it has done in the old. For the place of a city in the regional pattern has a dominant influence over the shape of its own centres. Consider first of all the city as a "central place." The difference between present and previous post-war worlds is that, in many countries, the building was a breaking down of cities is not between present and previous post-war worlds is that, in many countries, the building up or breaking down of cities is not being governed solely by the dictates of economy pure and simple but by the programmes of a planned and centralized economy. And where it is most thoroughly planned, there the old values apply least of all. Towards the end of the Napoleonic Wars building in Britain, for example, was very much restricted; but what there was consisted very largely of public buildings of the type we should call prestige or luxury building nowadays. But in 1918, and to a far greater extent today, we have discriminated against the monumental and centralized building, and the church and the big country house, and favoured the decentralized building—small houses in the suburb and the country; factories in the Development Areas, schools everywhere. So that not only is there no obvious surplus wealth to be concentrated in civic, commercial or religious centres—save for a few notable exceptions to which I will refer later—but the resources that are available are being distributed in a countryrefer later—but the resources that are available are being distributed in a country-wide network and not being piled up in

the heart of our cities. This at least is the principle on which we are working; there are, however, exceptions.

The function of a city as a central place does not only apply to society and trade in general but to special manifestations of society, such as religious observance, administration and politics. And here the decentralizing tendency of a nationally-planned economy is reversed in favour of the biggest centre of all, whether it be London or Paris or Moscow or Prague.

It is not infrequent in this century to find

It is not infrequent in this century to find special administrative or political centre in actual course of construction, such New Delhi, or Canberra, or Washington, D.C., and there will be others as dominions and colonies move towards complete self-government. These centres at least start government. These centres at least start life as fairly pure examples of the third or specialized type of town. But in cases where the city is initially of the "central place" type, and then has the specialized governmental function built up or retained in it, a substantial amount of building resources is likely to be concentrated there. The "central place" type of city is clearly not exercising its previous centripetal attraction; and this is particularly evident as regards other types of centre, religious, cultural, recreational or commercial, except in so far as the activity of the state makes in so far as the activity of the state makes

in so far as the activity of the state makes these centres national as well.

Something of the same trend is evident in regard to the second function of a city, where it acts as a focus for transport; and it does not seem likely to lead to any substantial development so far as the building of city centres is concerned. The multiplication of transport routes—whether road or rail—is not as important in this connection as a break-down of bulk, or a change of transport medium which favours the storage and processing of goods. However, the transport and entrepôt functions of a city do not lead today, in the same way as they did in the past, to the establishment of monumental, or even symbolic, city centres. Circulation or even symbolic, city centres. Circulation has grown quite out of scale with accommodation both in point of size and of

time.

The third specialized type of city has a less predictable future, as regards civic design, than the other two. Manufacture, on the other hand, is taking over some of the architectural dignity and significance that once belonged to civil, military and domestic work. But the importance of both in establishing the scale of city development is the purchasing power they create, and the increased demand they bring for all those services which in time make a city a "central place."

a "central place."

In the present day we can see two influences at work. One tends towards the creation of building and landscape compositions in the manner of the Renaissance, emphasizing the manner of the Renaissance, emphasizing the dignity of labour. The other tendency is towards greater domestic comfort and amenity for the worker—away from his work—an aim which is pursued in the garden suburb and the pleasure beach. The object of the New Towns in Britain is to combine these ideas; and by uniting the advantages of the residential neighbourhood with those of the trading estate, to create a settlement of higher self-sufficiency. In practice the emphasis is likely to be on housing small shops and essential services, before it moves on to civic architecture. The most successful essays will probably be those which create the latter through the medium of the former. Harlow and Peterlee, among the new towns, and Coventry among the old ones, will be worth watching.

ones, will be worth watching.

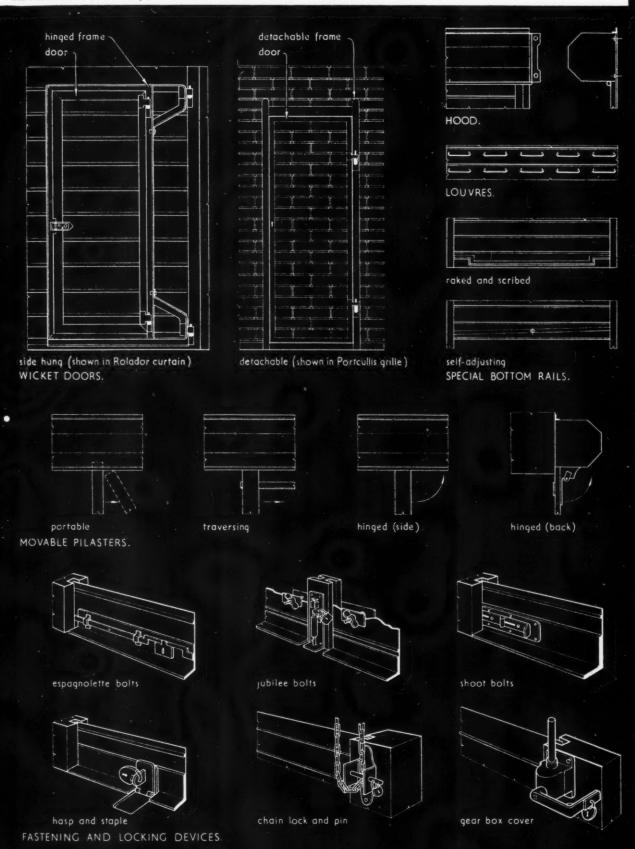
This brief review of the motives leading towards or away from the creation of city centres, so far as the three main economic purposes are concerned, can be summarized as follows:—

1. The general trend—at least in theory— is towards a wider and more equitable dis-tribution of services rather than towards their concentration in city centres.

is a selection of the s



The Architects' Journal Library of Information Sheets 145. Editor: Cotterell Butler, A.R.I.B.A.



HASKINS ROLLING SHUTTERS AND GRILLES 3: ANCILLARY EQUIPMENT.

Manufacturer: Haskins (E Pollard and Co. Ltd.)

#### 23.H3 HASKINS ROLLING SHUTTERS AND GRILLES 3: ANCILLARY EQUIPMENT

This Sheet, the third of a series, illustrates ancillary equipment for use with Haskins rolling shutters and grilles.

Side hung: This type is hung in a separate swinging door frame which is hinged on the guide at the side of the rolling shutter curtain. When the shutter is pulled down the swinging frame complete with door is swung into the aperture and bolted into position.

The door panel is constructed of slats or grille to line

up with the main shutter.

Detachable: This type is entirely removable. stiles are placed in position on each side of the aperture in the shutter curtain and held in position by a hinged bar at the top of the opening. The door is then hooked on to butts attached to one of the stiles which enables it to swing into the opening provided. The door panel is constructed of slats or grille to line up with the main shutter.

#### Hood (Coil Casing)

Standard pattern hoods are constructed of 20 gauge sheet steel braced for rigidity. They provide complete protection for the spring assemblies and gearing especially when shutters are fixed on the outside of the opening.

Steel fascias may be supplied for shutters which are

fixed under the lintel.

#### Ventilation Slots and Louvres

Provision for ventilation or the admission of light through the shutter curtain can be made by louvres or slots in the slats. These may be spaced at any distance or to any design with due regard to the strength of the slats.

#### Special Bottom Rails

Raked and scribed: Bottom bars may be shaped to conform to road cambers, slopes, curbs and railway

Self-adjusting: For openings having a falling ground level and limited headroom the self-adjusting bottom bar effectively closes the opening without recourse to a permanently tapered bottom rail. The self-adjusting bar hangs horizontally until it strikes the ground when it tilts on a ball-bearing pivot and assumes the slope of the ground. On being raised, it returns by its own weight to the horizontal.

#### Movable Pilasters

These are used to support independently operated shutters where several are installed in one opening. Portable: This is removed by hand. It is constructed either of steel or wood according to size and conditions of use, and supplied with top and bottom steel shoes to fit to brackets and into floor sockets. Fastening is accomplished by means of a bolt shooting into a floor socket.

Traversing: This is necessary for use in high openings where the removable type would be too heavy for lifting and where obstructions would not permit the hinging of the pilaster. They are fitted with ball-race rollers and move to the side of the opening on a tee top track.

Hinged (side): This is hinged from the supporting bracket and swings up parallel to the shutter curtain. It is operated by a self-sustaining winding winch, wire rope and pulleys. When in position it is fastened by a bolt shooting into a floor socket.

Hinged (back): This type of pilaster is hinged to the supporting bracket and swings backwards to the ceiling behind the shutter. It is operated as the

hinged (side) type.

#### Fastening and Locking Devices

Espagnolette bolts: The bolts shoot sideways into slots in the shutter guides and are secured by a lock and key; this type of bolt can be locked from either the outside or the inside.

Jubilee bolts: Usually provided where shutters are separated by a movable pilaster. The shutters are fastened by inserting bolts through plates attached to the pilaster and secured on the inside by means of

thumb screws.

Shoot bolts: These bolts form the normal method of fastening shutters from the inside and do not necessarily require a padlock. They can, however, be provided with bridging pieces to receive padlocks if required.

Hasp and staple: The staple is anchored to the floor and made to hinge flush with the floor level. This fastening may be fitted inside or outside the shutter

and secured by means of a padlock.

Chain lock and pin: Consists of a malleable iron bracket and pin attached to it by a small chain to secure the shutter. The operating chain is fitted into the bracket and fastened by pushing home the pin. The pin can be made to receive a padlock when required.

Gear-box cover: Shutters operated by winding gear can be secured by a cover plate which is inserted into the winding handle aperture and over the shaft end in the gear box and then padlocked to a staple pro-

jecting from the wall.

This Series of Sheets covers Rolador and curved slat type of interlocking steel rolling shutters, Portcullis rolling grilles and timber rolling shutters.

Compiled from information supplied by:

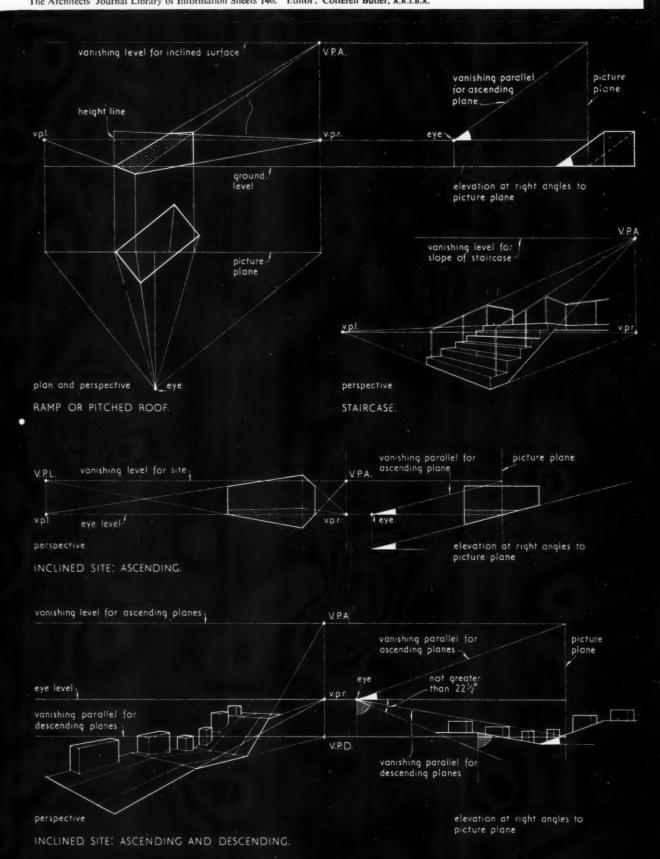
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### The Architects' Journal Library of Information Sheets 146. Editor: Cotterell Butler, A.R.I.B.A.



### PERSPECTIVE DRAWING: INCLINED PLANES.

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

### 1.B32 PERSPECTIVE DRAWING: INCLINED PLANES

This Sheet, one of the series on draughtsmanship, deals with the theory of perspective and describes the setting up in perspective of planes that are inclined to the horizontal.

### Ramp or Pitched Roof

The first diagram shows an inclined plane such as a ramp or the surface of a pitched roof.

It is possible to plot the extremities of the plane by locating the position and height above ground of its four corners. However, when there is any detail to show on the inclined surface it is advisable to find a vanishing point for the slope. This is obtained from a side view drawn to show the correct relationship between the building, the picture plane and the eye position. From the eye position a line is drawn parallel to the inclined plane; this is known as the vanishing parallel. The point where it intersects the picture plane gives the level at which a new vanishing point may be taken for any sloping surface parallel to the given inclined plane.

The perspective is set up in the usual way plotting eye level, ground level and the vanishing points for horizontal lines. A horizontal line is then drawn parallel to the eye-level line and at a height above it equal to that obtained in the side view from the intersection of the vanishing parallel with the picture plane. The vanishing point for the inclined surface is found by drawing a vertical line through the normal vanishing point to cut the vanishing line already drawn.

#### Staircase

The diagram shows the final stages in the drawing of a flight of steps with handrail. The vanishing point for the inclined surfaces is used here for the setting up of handrails, strings, etc.

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#### Inclined Sites

Ascending: The diagram shows a building on a s'oping site where new vanishing points are used for those parts of the building in contact with the sloping ground.

Descending: If the site is falling away from the eye position, instead of rising, the vanishing parallel on the side view is drawn down from the eye at the same angle to the horizontal as the fall of the site, until its intersection with the picture plane locates the level of the vanishing point for the slope.

Ascending and descending: The lower diagram shows a road with a dip in it as it would appear in a bird's eye perspective. The vanishing points for the inclined portions of the road and the lower parts of the buildings in contact with the slopes are obtained in the manner already described.

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

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### Eagle Pencil Company.

Address: Ashley Road, Tottenham, London, N.17.
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2. The main exceptions are in the seats of Government which are already great cities, where national centres may well grow within the urban framework of the capital.

3. The transport function in cities of 100,000 and more is unlikely to promote civic design in the traditional sense.

4. In mining and manufacturing towns there is a similar distinction between small settlements, in which true urban centres are likely to develop in time, and large towns where resources and organization are un-equal to the task of creating civic centres of proportionate size and significance.

The best opportunities for urban design—at least in the city centres of Western Europe—may well be those which arise out of the arrangement of almost standard building elements such as offices, shops, flats, schools and bus stations.

Two courses are however, open to the planner. He can limit himself to what he knows or intuitively perceives, going by his experience of how people live, whether indi-vidually, or as families, or as a society. Or he can consult as many specialists as pos-sible before he makes a design. He can attempt to formulate his own programme on attempt to formulate his own programme on the basis of the best advice obtainable on such matters as agriculture, demography, public opinion surveys, industrial re-traffic studies, and the rest. The traffic studies, and the rest. effect of this uncertainty on civic design in existing centres is more marked than in the case of new ones. I mentioned, to begin with, that we had evolved two forms of de-fensive mechanism to deal with the difficulty: one, the Precinct; the other, the Clearance Area. I have tried to show that these devices are a product of the funda-mental changes in attitude towards town building which have just been described. They are also an attempt to bring the prob-Iney are also an attempt to bring the prob-lem down to earth, as it were, so that the normal processes of design can begin. If it be accepted, for example, that a university or a group of historic buildings such as those at Westminster, are to form a precinct, then the architect, the archæologist, the land-scape gardener and the heating engineer will at least know where they stand and what the limitations of their problem are. Similarly. ilimitations of their problem are. Similarly, if an area can only be completely cleared, then plans for housing or an exhibition or a then plans for housing or an exhibition or acr park, or whatever it may be, can be proceeded with. There are, of course, great differences of emphasis as between the Precinct and the Cleared Area. The first is largely conservative in character, the second radical.

"To sum up," says Le Corbusier, "the town, no longer a pitiless quarry of stone, becomes a park." He is, of course, perfectly right. Just as Lewis Mumford is right when he talks of the urgent need to thin out and break down the Metropolis, because it is break down the Metropolis, because it is failing to maintain a good life, or a reproduction rate of unity. In the one case it is the artist speaking; in the other the social historian. What they are both showing us is not a blue-print, but a principle and a motive. Surely our job as planners is not to take a brilliant sketch by Le Corbusier for a 70-floored office building and put it up to a committee of the London County Council as nort of the Development Plan for Council as part of the Development Plan for Westminster? Is it not rather to understand and translate the principle, and to read the technical signs aright, so that the practical plan that is put forward helps towards the attainment of the idea as soon as the other planning conditions are ready for it—by which I mean social organization and the economics of transport and land values. If we cannot put one possible step after another, we shall hang ourselves by the rope of the improbable.

Floor-space, height, and building-form are the raw material from which design is created in city centres, just as density and layout govern the design of residential neighbourhoods. The Ministry's Handbook on *The Redevelopment of Central Areas* [paragraphs 235-240] dealt in very general terms with the

conditions necessary for successful design, but could not for obvious reasons embark on a critique of design itself. It was careful to point out that the central question is "... the contribution which an individual developer should be asked to make towards the appearance of the street as a whole."
It has always seemed to me that there are

three indispensable ingredients in good civic

(1) Firm and equitable conditions laid down by the authority or the estate owner, and governing the amount and general nature of both the accommodation and the circulation in a given area.

(2) Artistic integrity in the individual designers (i.e., they should care greatly about the efficiency and the appearance of their buildings or streets).

(3) Sufficient variety and vitality to provide contrast as well as harmony in the total

Circulation is extremely puzzling. The cardinal difficulty of central sites is that the curves and gradients and junctions of welldesigned highways cannot be comfortably fitted in to closely-built city blocks, with their rectangular plans and structure, and their demand for immediate adjacent pave-ment access. The final solution is obviously the removal of the buildings from the side of the road behind forecourts, verges, or even parkways. And this would bring us back to the principles of the Precinct and the Cleared Area, either of which might allow the buildings to be set in a green space. But in practice the transition has to be made gradually, more often than not. The first stage is the removal of the sheer bulk of building accommodation from the street façade. This is also, of course, the first step in the destruction of the Renaissance idea of the "corridor street," which gains its effect from its other transportations. its effect from its vista, its more or less sym-metrical treatment of frontages on either side of the street, a continuous cornice line or eaves, and a consistent scale. So we have to consider where it is most appropriate to retain the corridor street and ignore the traffic disadvantages; where it is convenient to retain the corridor on the ground floor only—as, for example, in the case of a shopping street; and where it is best to abandon it altogether. The half-way house -or the design with a continuous ground-floor frontage on the pavement line, and the rest of the building set back-has much to commend it. Shops, banking halls and lobbies can be directly off the pavement, and top-light can be used to reinforce the lighting of the ground-floor interior. The projection also serves as a sound baffle between the source of traffic noises and the upper windows. In a street of this kind the pedestrian at least has the time and opporpedestrian at least has the time and opportunity to study the detail and enjoy the architectural effect of the corridor; the motorist has not. Where a road is intended to be fast it really has no choice but to remove itself from the buildings or else go underground. The asthetic of street and place design is thus bound to alter—or perhaps it would be more correct to say that it will be extended. The corridor and the enclosed square depend on the continuance enclosed square depend on the continuance of the social programme that brought them into existence and also on the sheer quality of their architecture. We can all appreciate the value of Alessi's famous street in Genoa, or Nash's Regent Street, or the Circus at Bath, or even twentieth-century Cornhill in the City of London. But we cannot get the same satisfaction out of cannot get the same sansiacion out of Kingsway, or Horseferry Road, or Berkelev Sourare in its present condition. They all suffer from mixed motives; Kingsway gains nothing from its Renaissance gains nothing from its Renaissance ancestors, and loses the appeal of asymmetrical composition which it might have won from more pleasing and wider proportions, variety of setback from a free carriageway, and more trees. One has only to compare on a somewhat smaller scale the

street picture of Kings Parade in Cam-bridge to realize the heights which such composition can achieve. And woe betide composition can achieve. And woe betide us if the grass, the paving, and low wall, and the famous chestnut tree were to give place to more building. Horseferry Road did, in fact, begin to move away from the corridor, then hesitated, and eventually succumbed to the demand for floor space. Berkeley Square is neither a true precinct nor an efficient traffic place. The Clean Slaters have not had their way with it, and the remnants of an earlier residential charm awake only nostalgia in the spectator's breast. This particular dilemma seems to show that in dealing with existing centres we should try to get the best out of both worlds rather than attempt to make one world. one world.

If real amenity is to be gained from such building compositions, strict architectural control is necessary. The giant building must be vigorously dealt with, or at least set back so that its main bulk looks down on the square but does not dominate it. At the other end of the scale, and once the need for enclosure and compactness is no longer paramount, the best course is to move as quickly as possible towards a free plan in which the building form and the circulatory system are more or less independent. Each can then be appreciated on its own terms; and traffic engineers and architects cease to wrangle. The Rocke-feller Centre, off New York's Fifth Avenue, could have achieved this double victory if there had been an adequate control of building round about it.

These speculations on design in city centres But they have led me to the following conclusions which may open a broad enough field of discussion. To save time I complete this bort review by putting them forward the striction as follows:

ward, seriatim, as follows:

 Concentration is still the most powerful force in city building; and it is an illu-sion to suppose that we can have, or even afford, unproductive open space wherever we want it in the composition of streets and squares.

2. Despite this, as Sir Raymond Unwin once demonstrated for housing layouts, there is "nothing gained by over-crowding," even in the commercial quarters of cities.

3. Therefore, whether a compact enclosure, or a stepped composition, or an entirely free plan be adopted, a reasonable maximum ratio of floor space to site space is ascertainable from both an economic and an aesthetic point of view. There is a complete justification for the Plot Ratio and the Floor Space Index as a guide to urban planning.

 Whatever composition is used, it will gain by being kept usually consistent within its own orbit. That is to say. a corridor should have a beginning and an end, and carefully designed sides—whether these are seen frontally or in perspective. Squares should enclose; precincts should be withdrawn; and historic buildings should not be knocked on the head, gangster-fashion, by new-comers, who make nonsense of their proportions or prospect.

In the town as a whole, however, there
is room for all the idioms of civic
design; and it will be a dull place if

there is not.

6. In the average central thoroughfare, and in civic, financial and government centres, the most important assets are daylight and ease of movement. Therefore designs of central blocks will sooner or later have to step up from street level towards the centre of blocks rather than vice versa. Except where the old values are retained, the whole architectural repertoire of contrast, in-formality, balance, and incidental effect, can be brought into play.

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quent, failure by bond less frequent than expected. The report does not make recommendations regarding improvements in design, but is a suitable basis for this purpose.

# TECHNICAL SECTION

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

### INFORMATION CENTRE

I SOCIOLOGY. 2 PLANNING: General. 3 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 IMATERIALS: General. 12 MATERIALS: General. 12 MATERIALS: General. 14 MATERIALS: Timber. 14 MATERIALS: Timber. 14 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: COMPLET STRUCTION: CONSTRUCTION: QUE STRUCTION: 2 SUJUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS. EQUIPMENT: Miscellaneous. TINGS. 28 MISCELLANEOUS.

### 9.8 design : general CONTEMPORARY TRENDS

(Architectural Forum, Nov., Measure. 1948, p. 143, et seq.)

Important review of modern thought on building construction, æsthetics of building design, heating, lighting and acoustics. Well illustrated. For construction see 17.46, acoustics 22.29, heating 23.92, lighting 24.

Æsthetics, p. 143

A somewhat intangible attempt to discuss the old arguments between science and art. There is a familiar, though well-written review of the usefulness of functionalism. There is a better analysis of the probems of art and mechanization, in which emphasis is laid on mastering the assembly of stanart and mechanization, in which emphasis is laid on mastering the assembly of standardized components in an architectural sense. There is a vigorous defence of curved forms even where "stream-lining" is irrelevant. It is argued that curved forms are sound and economic, and were seldom used previously because of the difficulty of making them.

Houses, p. 149

A little touch of philosophy, a dash of daylighting, and a stimulating experimental

daylighting, and a stimulating experimental house by Kenneth Welch. The validity of the original Colonial designs is defended, and an attack made on the popular, in-valid use of them today. There is a general thesis that house design has not yet been touched deeply with the real meaning of modern understanding of light, heat and sound, the sensory factors, and Mr. Welch's house is illustrated in detail to show a shot at advanced design in this respect. Remarks are made about lighting—largely again in terms of Harmon's work on the harmful effects of bad lighting—and there is a stimulating passage on the control of noise,

now becoming necessary with smaller, more

open plans.

The problem of technical help for architects is mentioned, and is linked with the lects is mentioned, and is linked with the shell and idea of prefabrication, both of shell and internal components, to spread the cost of high technical skill.

A big dose of philosophy on space-time-architecture lines, with a twist to bring in light, heat and sound as "elements of space." The writing is jargonistic and the space." The writing is jargonistic and the ideas rather intangible.

### 17.46 construction: general CONTEMPORARY TRENDS

Measure. (Architectural Forum, Nov., 1948, p. 135.)

Important review of modern thought on building construction, æsthetics of building design, heating, lighting and acoustics. Well illustrated. For general design see 9.8, acoustice 22.29, heating 23.92, lighting 24.102.

Enclosure.

This is a review of ideas operating in the This is a review of ideas operating in the conception of a highly developed functional enclosing "skin." The argument turns to-wards a good form of manufacturable wall, and there is a description of a factory wall said to be highly successful. Outside is corrugated metal, then an air space and two layers of glass silk with a vapour barrier between them. The inner layer of glass silk is retained by metal lath (very small mesh), not plastered. The functions of this wall are to exclude and reflect solar heat, to give high thermal insulation and good to give high thermal insulation and good internal sound absorption, with good light reflection inside also. The wall functions are exceptionally well described, and include an excellent discussion of thermal capacity and its effect on design.

windows are dealt with here. The double window is solidly backed to add to heat insulation and to reduce loss by radiation. For the exclusion of solar heat, the spotlight is thrown on heat intercepting glass pale greenish-blue in colour, cutting visible light by 25 per cent. and heat by 45 per cent. A building is mentioned where this

some examples of daylighting design are described, but have been better discussed in the press previously. There is a welcome given to a new measurement called a daylight unit, which proves to be nothing more nor less than a belated discovery of our nor less than a belated discovery of our daylight factor.

### 18.20 construction: theory TESTS ON FOOTINGS

Reinforced Concrete Wall and Column Footings. F. E. Richart. (Journal of the American Concrete Inst., Oct., 1948, pp. 97-127, Nov., 1948, pp. 237-260.)

Comprehensive series of tests on reinforced concrete footings for walls and columns.

The investigation involved tests on 24 wall footings and 132 column footings. The results partly confirm assumptions usually made in the design, partly contradict them. Failure by diagonal tension was more fre-

### 20.108 construction: complete structures ALUMINIUM DOME

An Aluminium Domed Roof, G. P. Manning. (Civil Eng.- and Public Works Review, Jan., 1939, pp. 30-31.)

Details of a prototype of aluminium domed roof of 80 ft. diameter and 7 ft. rise, intended primarily for oil tanks.

The roof was designed for a superimposed load of 30 lb./sq. ft. and temporarily erected for testing. Permanent riveting was impossible, since all the material had to be salvaged. Consequently the test was limited to 24 lb./sq. ft. This was applied by covering the roof with a layer of bricks. by covering the roof with a layer of others. The loading effect was masked by the temperature effects. Final deflection of the crown under full load was about 1 in., the maximum vertical movement under the maximum vertical movement under the combined effect of temperature and load is about 1.8 in.

The structure is one of the lightest in the world, the dead load is 1.98 lb./sq. ft.

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See illustration on page 171.

### 22.29 sound insulation and acoustics CONTEMPORARY TRENDS

Measure. (Architectural Forum, Nov., 1948, pp. 127-133.)

Important review of modern thought on building construction, æsthetics of building design, heating, lighting and acousties. Well illustrated. For general design see 9.8, construction 17.46, heating 23.92, lighting 24.102.

This has a poorer quality than the lighting section. The American work in insulation is nowhere near the British, and the remarks on acoustics of auditoria are not authoritatively founded.

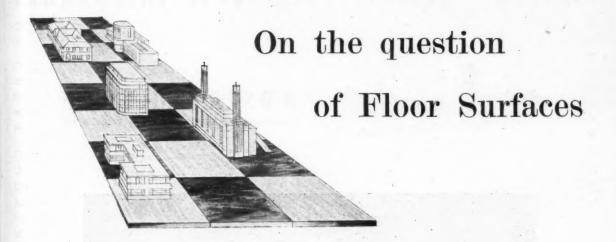
tatively founded.

Reference to the effects of noise is interesting. It is stated that such things as loss of temper and irritability are outstanding characteristics, and that measurements of brain pressure show significant changes when noise is severe. It is asserted that it

### INFORMATION CENTRE INDEX, 1948

An alphabetical index covering items published during the twelve months ended December 31, 1948, is being prepared. Readers who wish to have a copy-it is free of charge-should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than February 21,

| Please s | send me the Information Centre Index 8:— |
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|          | A.J. 17.2.49                             |



DURING THE WAR years, Semtex Limited developed a highly successful non-slip fleximer decking. This decking, based on a rubber latex/cement binder, possessed unusual properties. Not only did it bond successfully directly to steel plating, but it possessed a high degree of flexibility and endurance under the rigorous conditions imposed by warfare at sea. This wartime experience opened up possibilities for developing domestic and industrial floor surfaces based on rubber latex or synthetic resin emulsions.

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ACCORDINGLY, WHEN THE war ended, Semtex Limited whilst expanding and improving the range and quality of its work in the marine field, turned its attention to the manufacture and installation of architectural floors. Research at the Company's laboratories made it possible to offer a range of flooring materials designed to meet a diversity of architectural requirements. These new floor surfacing materials have been installed with considerable success in business premises, factories, offices, hospitals, schools, housing schemes and building projects generally throughout the country. To-day production has reached a level at which Semtex Limited is fully able to meet all demands.

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FLEXIMER FLOORING: This floor surfacing material is applied in situ in a cold state. It bonds powerfully with concrete or steel and can be laid in certain circumstances over wood. It possesses a high degree of elasticity under traffic and is exceptionally hardwearing. It is available in red or brown.

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Union Castle Liner built by Harland & Wolff Ltd. Belfast



From details supplied by Heaton, Tabb & Co. Ltd.

This unique launching ceremony, performed by radio telephony between South Africa and Belfast is commemorated on board this splendid ship by the panel illustrated above. The panel is a beautiful example of veneering and inlaid marquetry; the background is a very fine dappled Mahogany and the inlay of wreath, stars and lettering is in Holly, Boxwood and Grey Elm.

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disturbs the blood vessel apparatus, and in-creases degenerative processes in heart and

Auditorium acoustics are said to receive actionism acoustics are said to receive much attention, but the examples and text are not discussed in relation to current views. The "organic" fan or parabolic plan is acknowledged to be sound, whereas in Europe it is doubted. There would be more agreement with the recommendations to use some surfaces with high reflection, others with soft absorbents, and areas of

on the domestic side, it is remarked that vast sums are spent on broadcasting, but little or nothing on the acoustic conditions at the receiving ends in ordinary houses. Some rooms are described where care has Some rooms are described where care has been taken. For instance in one room there is a "live" wall, panelled, free-standing and opposite it an absorbent wall. The other opposed walls are glass, not parallel. Ceiling is an irregular shape, to disperse sound. One end is for reading, the other for radio. The article does not say whether the room requires aread conditions, but presumably provides good conditions, but presumably they are thought satisfactory.

The illustrations are good.

Z

### 23.92 heating and ventilation CONTEMPORARY TRENDS

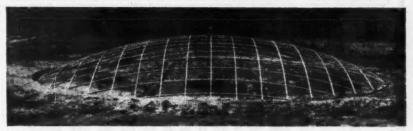
Measure. (Architectural Forum, Nov., 1948, p. 103, et. seq.)

Important review of modern thought on heating, lighting, acoustics, building construction, æsthetics of building design. Well illustrated. For general design see 9.8, construction 17.46, acoustics 22.29, lighting 24.102

The form printed below is to assist readers requiring up-to-date information on building products and Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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| BLOCK LET                               | TERS.       | Piease     |        |            |             |



80ft. Diameter domed roof in aluminium alloy. See 20.108.

Heat. p. 103

Particular stress is laid upon comfort instead of mere temperature, and the article very rightly stresses the fact that in the past there has been a great deal of research and development on heaters but comparatively little on methods of heating. There is a lengthy discussion on bodily comfort which succeeds in giving a clear neture of physics. succeeds in giving a clear picture of physiological requirements. The argument is very similar to that given in several recent British publications, though it appears to ignore some of the best of our research work. Although the explanations of radiation, convection, conduction and evaporation seem sound enough and the method of bodily adaptation in relation to these is convincingly explained there still does not ooully adaptation in relation to these is convincingly explained, there still does not seem to be any real explanation of why certain common forms of heating such as high temperature electric fires or hot water radiators are so often considered "uncomfortable."

Atmosphere. p. 115

This section is short and very general in its content—too general to be of much value. Reference is made to the importance of odours as the governing factor in deciding odours as the governing factor in deciding upon ventilation rates and also to the somewhat unexpected secondary effects caused by odours so slight as to be imperceptible. Descending from some rather ideological suggestions for domestic buildings, the article points out that there are a number of quite simple improvements which could be incorporated in ordinary houses.

### 24.102 lighting CONTEMPORARY TRENDS

Measure. (Architectural Forum, Nov., 1948, pp. 119-125.)

Important review of modern thought on lighting, heating, acoustics, building construction, æsthetics of building design. Well illustrated. For general design see 9.8, construction 17.46, acoustics 22.29, heating 23.92.

The emphasis is placed firmly on vision, The emphasis is placed firmly on vision, which means in practice that lighting people are now less interested in the amount of light provided than they are in how it illuminates the view. It is asserted that where the light is badly distributed the oftmentioned adaptability of the eye is overworked, with harmful reactions on one's body in general rather than upon the eyes in particular. Much weight is given to the evidence for this view put forward by Harmon in his work on school children, and it is stated that these researches are now being extended to adults, with similar findings.

There is a good description of the eye mechanism and of the history of light sources. A vigorous complaint is made about the "atrocious" design of most contemporary light fittings (we in Europe are regarded as lucky in this respect!), and there is a description of the fight now in

progress between those who claim that modest intensities are good enough and those who put in a plea for much higher values than are now generally used. Daylighting is dealt with in other articles on enclosure and space.

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

# QUESTIONS AND ANSWERS

2976 CONTROL OF ENGAGEMENT **ORDER, 1947** 

Q Could you tell me whether the "Control of Engagement Order, 1947" applies to Architects seeking new employ-

A The "Control of Engagement Order, 1947," does not apply to managerial, professional, administrative or executive employment.

### 2977 WOODWORK: FURNITURE BEETLE

Of the woodwork in the house of a client of mine is being destroyed by some form of beetle which appears every June. The beetle bores along the grain of the wood and last year also attacked the cane of a dog basket as well. Could you advise me as to the nature of this beetle and also what measures could be taken to prevent the damage from spreading further?

A From your description it would seem

From your description it would seem A riom your description is attacking the woodwork in your client's house is the "Furniture Beetle," and if there are piles of dust near to the holes made by the beetle you can be assured that this is the

case.

Infested woodwork may be treated by fumigation, but this should only be carried out by an expert with suitable plant, as the gases used (usually hydrocyanic acid gas or carbon bisulphide) are extremely poisonous. Various proprietary liquids of a volatile nature, also benzene, turpentine or paraffin, can be injected with a syringe or fountain pen filler into the exit holes, or applied with a brush.



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#### INDUSTRY THE

By Brian Grant

### AUTOMATIC STUD WELDING

About two years ago reference was made in these notes to the American-produced Nelson stud welding gun, and it was then suggested that its time-saving ability might

In these notes to the Amenican-produced Nelson stud welding gun, and it was then suggested that its time-saving ability might be of some use in this country, even at the expense of dollars. It is interesting to learn, therefore, that the Nelson gun is now being marketed in this country by Crompton-Parkinson. The Nelson gun has, in fact, been used to a certain extent already in this country, and the latest development is really no more than a larger scale extension organized over here. Since, however, it is some time since this method of stud fixing was mentioned, it may perhaps be briefly described again.

The hanging of mechanical equipment, conduit, ventilation ducting and all sorts of pipework to steelwork of any kind generally involves drilling for bolts or the use of special pins, hooks, saddles or clips. The stud proper, which involves drilling and tapping in comparatively thick material, is not widely used because of the effort involved; but when it becomes possible to fix it quickly by welding it is very satisfactory. For many purposes the welding of studs can simplify manufacture, particularly in such things as the manholes and pipe attachments of tanks as the base metal is not perforated in fixing the stud, and leaks round the stud are thus avoided.

The principle of stud welding is to strike an arc between the base metal and the end of the stud, this producing a pool of molten metal and raising the end of the stud to melting point. The arc is then extinguished and the stud forced mechanically in a fraction of a second.

Studs made specially for the Nelson were all the made and page specially for the Nelson were all the made specially for the Nelson were all the m

the whole operation being performed automatically in a fraction of a second.

Studs made specially for the Nelson gun should be used, as they are made to a steel analysis suitable for good welding, while the larger size studs are supplied with a small hole drilled in the end and filled with fluving powder.

small hole drilled in the end and filled with fluxing powder. In use on the job, a stud is loaded into the gun and a ceramic ferrule slipped over it; the function of this ferrule is to exclude impurities from the weld and to produce a uniform fillet of metal. The stud is pushed firmly against the metal and the operator pulls the trigger, the whole operation being completely automatic. As well as the fixing of studs, the gun can be used for fixing plain or threaded tubes or pins, so that it is quite a versatile weapon. (Crompton-Parkinson Ltd., Crompton House, Aldwych, London, W.C.2.)

### MAKING TEA

**C.4** 

The Tea Centre—how many Centres are there now, by the way, since Mr. Yerbury started the fashion?—has issued quite a useful handbook covering the various methods of making tea in large quantities for canteens and restaurants. It contains a series of standard-size data sheets giving illustrations performance and the manufactures. illustrations, performance and the manufac-turers of the various pieces of equipment,

each section having a brief introductory note. Water boilers explain themselves. Trolleys are widely used for taking the tea to the workers in the factory, and Multi-pots are really giant vacuum flasks in which up to about 10 gallons of tea can which up to about 10 gallons of lea can be kept hot for four hours after brewing, an essential item of equipment for large canteens or for trolley service. Milk should be added to the tea in the multipot at the last possible moment before serving, though the introduction says "the perfect method is to pre-milk the cups." (Another word for Sir Alan Herbert; surely it is the cow which is pre-milked?) In another section the various types of complete tea-making sets are described, while a final section, under the useful heading of Miscellaneous, shows automatic tea-measuring machines and other subsidiary devices.

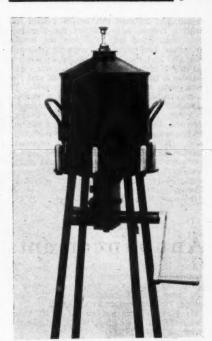
The whole booklet forms a useful reference for anyone concerned with canteens ence for anyone concerned with canteens or restaurants, particularly as the products of a number of different manufacturers are shown. Although the machines illustrated are no doubt efficient, it is a pity that the design of most of them should be quite deplorable both in small details and in the untidy and all too serpentine layout of much of the pipework. Here is an industry which needs the Council of Industrial Design very badly. (The Tea Centre, 22, Regent Street, London, W.1.)

#### TESTING CONCRETE WORKABILITY

For many years the slump test has been used as a means for measuring the workability of concrete, and particularly to ensure that not too much water is used in the mix. It is easy to carry out, and the apparatus required could not be more simple, but it is to a certain extent unreliable in that mixes with the same slump can show considerable variation in show considerable variation workability, depending on the type of aggre-

workability, depending on the type of aggregate used.

Workability may be defined as the amount of mechanical work required to place the concrete in position, whether by ramming, rodding, vibration, or by any other method, and an accurate means of measuring it has been evolved by Mr. Victor S. Wigmore, a Past-President of the Society of Engineers. The machine is illustrated here, and is now being marketed by Macklow-Smith Ltd., and is known as the Wigmore Consistometer. It measures workability in terms of vibration and penetration, a number recorded on an automatic counter giving a figure which is known as the consistency factor. The more workable the concrete the lower will be this consistency factor,



The Wigmore consistometer for measuring the workability of concrete.

which may range from 20 to over 800; the actual figures have no particular significance, and although they may approximately follow the more understandable figures of inches slump, they bear no definite relationship to them, the consistency figure being a purely empirical method of tionship to them, the consistency figure being a purely empirical method of measuring the relative workability of different mixes. With a wide range of figures, however, it is possible to control the workability of concrete to an extent which has not been possible before. This applies not only to in situ work, but to the very stiff consistency required for road work and the table vibration of pre-cast units

The consistometer consists of a stand about 3 ft. high on which is a small platform, which can be vibrated by turning the handle. The container on the platform holds one-third cu, ft. of the mix to be



The Nelson gun welding studs for fixing corrugated sheet.

1741

tested, and through this moves a steel rod with a bronze ball. When the container has been filled with the mix the handle is given two turns to compact the mix slightly, and the ball is placed in position so that it rests on top of the concrete. The handle is then turned, and the ball and rod sink into the concrete. The number of handle is then turned, and the ball and rod sink into the concrete. The number of turns required to sink the ball a definite distance is measured by an automatic counter, and this gives the consistency factor. The whole test can be carried out in less time that it takes to make the slump test. It is obviously a more expensive device than the simple slump test, and is probably beyond the financial means of the smaller builder, but on larger jobs it seems quite likely to become a usual means of measurement. (A. Macklow-Smith Ltd., 8, Malbrook Road, Putney, London, S.W.15.)

# Announcements

The Directors of Falks have inauguration luncheon to the office and warehouse staff to celebrate the opening of the new canteen established at toffice, 91, Farringdon Road, E.C.1. the head

Mr. E. H. Firmin has moved to 10, Manchester Square, London, W.1. Telephone: Welbeck 2849/2850.

The RIBA Golfing Society is arranging an interesting fixture list for the coming season, including amongst their four meetseason, including amongst their four meetings a golfing weekend. It is also hoped to add further matches to their annual fixtures with the Surveyors' Institute Golfing Society and the London Master Builders' Association Golfing Society. Will all members and students wishing to join the Society kindly remit the annual sub-

scription of 10s. to the Honorary Secretary and Acting Treasurer, who will shortly be sending out the printed fixture cards. The following Officers have been re-elected for 1949:—President: Sir Giles Gilbert Scott, R.A., PP.R.I.B.A. Committee: Captain; John Grey, F.R.I.B.A., W. R. F. Fisher, F.R.I.B.A., and H. St. John Harrison, F.R.I.B.A. Hon. Secretary and Acting Treasurer, E. H. Firmin, A.R.I.B.A., 10, Manchester Square, London, W.1.

Messrs. Scherrer & Hicks, M.A., FF.R.I.B.A., A.A.DIPL., Chartered Architects, of 310, Upper Regent Street, W.I., have opened an additional office at 50, George Street, Croydon (telephone Croydon 4156/7/8), and would be glad to receive trade catalogues and price lists by post.

The partnership between Mr. Maurice William Jones, L.R.I.B.A., and Mr. Alexander William Jones, L.R.I.B.A., and Mr. Alexander Graham, A.R.I.B.A., A.R.T.C., D.A. (GLAS.), was dissolved as from September 29, 1947. The practice was purchased by Mr. Alexander Graham and since that date has been carried on solely by him. In future he will practise under his own name at 15, The Tything, Worcester. Mr. Maurice W. Jones is continuing his ecclesiastical work only at this address.

Waste paper recovery is playing an important part in the housing speed-up. A representative of the National Joint Council for the Building Industry said in an interview: The building trade is one of the biggest consumers of paper, and the need for salvage grow in proportion to the number of will grow in proportion to the number of buildings erected. Repulped paper waste is essential to the production of plaster board and pulp board, used for wall linings and ceilings. The building output is likely to reach between seven and eight hundred million pounds this year, and consequently there will be a still greater need for paper salvage.

To cope with increased business for home trade and export, Mesers. Venesta Limited have acquired a new factory in Erith, Kent. Work at the new factory will be concentrated on the veneering of plywood with decorative woods for the furniture trade and interior decoration of buildings. Plymax, metal-faced plywood, will be made there, together with Vendura, veneered aluminium, the company's latest product. The factory is expected to be in full production in the early autumn.

Messrs. West's Piling and Construction Co. Ltd., civil engineering contractors, have returned to their office in London which they were compelled to vacate during the war. Their address is Columbia House, Aldwych, London, W.C.2. Telephone: Holborn 4108. Mr. Henry Lynn, M.INST.R.A., has opened an office in 36, Regent Street, Newtownards, Co. Down, Northern Ireland, and would be glad to receive all trade catalogue at their glad to receive all trade catalogues at this

# Corrigenda

The caption to the photograph of the Exhibition of Visual Aids on Industrial Design, sponsored by the CID, which appeared in the JOURNAL for January 13, was "Two of the six boxes that make a set on pottery design, designed by Robert Whetmore, of Cockade Ltd., for the CID. The six boxes in two crates may be borrowed free for two weeks." free for two weeks.

In the list of books reviewed, given on page 86 of the Journal for January 20, the price of the book Local Style in English Architecture, by T. D. Atkinson (Batsford), was given as 18s. This was incorrect, and the price should have been 15s.

# £400,000,000 for future needs

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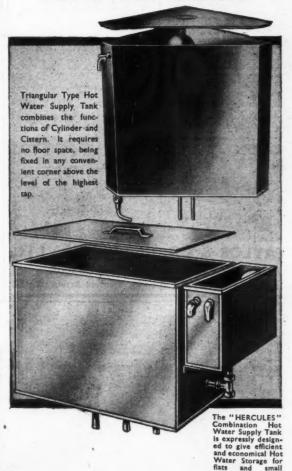
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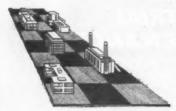
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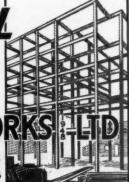


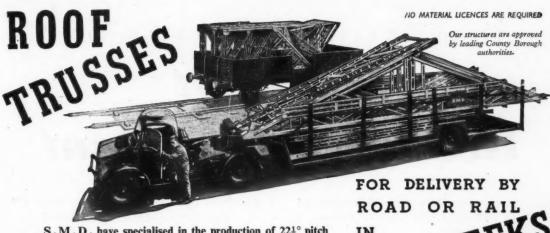
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Applicants should have had a good architectural training and preference will be given to candidates with experience of Local Authority Housing Schemes and holding a recognized professional qualification. The appointment will be subject to the Local Government Superannuation Act. 137. Applications, together with the names and addresses of three persons to whom reference may be made, should be forwarded to Harold E. G. Stripp, Esq., A.M.I.C.E., F.R.I.C.S., Engineer and Surveyor, 253, High Street, Uxbridge, not later than Tuesday, 22nd February, 1949. Candidates are required to disclose in writing whether to their knowledge they are related to any senior officer or member of the Council.

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Up to 167s. 6d. a week.
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Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and there will be opportunities of competing on merit for permanent appoint-

ment. Application forms from the Architect (AR/P/Q), County Hall, Westminster, S.E.I. enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (84)

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CHIEF ARCHITECTURAL ASSISTANT.

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KEITH LAUDER. KEITH LAUDER, Town Clerk.

WEST RIDING COUNTY COUNCIL,
ARCHITECT'S DEPARTMENT.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT (DESIGN).
ARCHITECT, in the above department, at a salary of £1,260, rising by annual increments of £50 to a maximum of £1,560 per annum. Travelling and subsistence allowances will be paid in accordance with the County Council's scale.
The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.R.C.C. General Powers Act, 1948, and to a medical examination.
Applicants must have first-class architectural ability and experience, and be thoroughly capable of organizing a large drawing office. It is estimated that something like £2,000,000 to £3,000,000 of architectural work will be passing through the department annually, and the person appointed will be responsible to the County Architect for maintaining the very highest possible standard of architectural work throughout the department. The department is responsible for some 4,000 County properties, and the building work of the department covers all types of Educational and Health Buildings, Police Stations, Court Rouses, Police Housing and Fire Stations, together with all other County buildings.
Applications, on forms to be obtained from this office, must be addressed to me (endorsed "Deputy County Architect (Design)," and should be received by me on or before Monday, the 21st February, 1949.
Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT,

West Riding County Architect.

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HUBERT BENNETT,

West Riding County Architect.

County Hall, Wakefield.

WEST RIDING COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY ARCHITECT, at a CALLY EACH TECT (ADMINISTRATIVE).

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Applicants must have professional and administrative experience, preferably in Local Government or Central Government Service.

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HUBERT BENNETT.

West Riding County Architect

County Hall. Wakefield.

CANNOCK URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, in the Architect's Department, at a salary in accordance with Grade I of the A.P.T. Division of the National Scale (2390-2455).

(£390-£435).

Applications, giving full details of age, training, qualifications, present and previous appointments, nature of experience, and names of two persons to whom reference can be made, must be delivered to the undersigned not later than Tuesday, 22nd February, 1949.
Canvassing, either directly or indirectly, will disqualify, and applicants should state whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

WM. C. SPEEDY.

WM. C. SPEEDY.

Clerk of the Council.

3rd February, 1949.

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Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

For the junior positions, planning experience is not essential, but candidates should have a good general education, an aptitude for drawing, and an interest in town planning.
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HEATING, VENTILATING AND ELECTRICAL ENGINEERING DRAUGHTSMEN urgently required. The minimum qualifications, at age 21, are that the applicants shall have had, at least, four years' Heating and Ventilating and Electrical Engineering experience or apprenticeship in an industrial or Government undertaking, or alternatively with a reputable Installation Contractor, of which at least one year should have been spent on drawing office duties. Candidates will be required to produce evidence that they have undertaken or are undertaking a recognized course of study advancing to the standard of National Certificate or equivalent. Applicants who have reached a higher standard and who are capable, without undue supervision, of initiation and design of moderate sized schemes, preparation of specifications and estimates, analysis of tenders and technical correspondence, and who have reached a level of study equivalent to Higher National Certificate Award, are preferred.

The commencing salary for these posts at age of 21 years is £285 per annum. Entering salary is increased by £20 per annum. Entering salary is increased by £20 per annum. The posts are at Cambridge. Although these posts are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Apply to Ministry of Works (R.D.1 Estab.), Shaftesbury Road, Brooklands Avenue, Cambridge. Qualifications: At least three years'

Apply to Ministry of Works (R.D.1 Estab.). Shaftesbury Road, Brooklands Avenue, Cambridge.

ARCHITECTURAL ASSISTANTS urgently required. Qualifications: At least three years' Architectural training, and, preferably, some experience in an Architect's office. Ability to carry out under supervision working drawings of smaller works from prepared sketch plans, and elevations. Knowledge of subsidiary duties common to an Architect's office. Some testimonies already accepted and/or in a position to sit for the Intermediate examination of the Royal Institute of British Architects.

STRUCTURAL ENGINEERING ASSISTANTS urgently required. Qualifications: Basic knowledge Static Mechanics, properties of materials, and structural detailing and design obtained over a period of not less than three years at a Technical College, plus one year in a Structural Engineer's office supplemented by Technical Classes. Capable of site surveying, dealing with specifications, and making reliable reports.

SANITARY ENGINEERING ASSISTANT urgently required. Qualifications: Three years as an Apprenticed Pupil or Assistant in a Civil Engineer's Drawing office and three years' partime study in Engineering subjects, including drainage and water supply, and at least one year's experience in a Civil Engineer's Drawing office. At ages above 21, corresponding advanced knowledge, experience, and drawing office technique are required. Preference given to candidates who have passed for Associate Membership of the Institution of Municipal Engineers, he Intermediate examination or the Testamur examination of the Institution of Sanitary Engineers, the Intermediate examination of the Testamur examination of the Institution of Municipal Engineers, he Intermediate examination of the Testamur examination of the Institution of Municipal Engineers, or equivalent. The commencing salary for all these posts at age of 21 years is 2233 per annum for each year of age above 21 years, subject to a maximum commencing salary of 420 per annum for each year of age above 21 yea

COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF TOWN PLANNING
OFFICERS.
Applications are invited for the following permanent appointments in the Town Planning Section of the Borough Engineer's Department:

(a) OHIEF ASSISTANT PLANNING
OFFICER (Grade A.P.T., VII). Salary £635 to
£710 per annum.

£710 per annum.
(b) JUNIOR ASSISTANT PLANNING
OFFICER (Grade A.P.T., I). Salary £390 to £435 per annum.

London weighting is paid in addition, and salaries in excess of the minima of the grades may be paid according to qualifications and ex-

may be paid according to qualifications and experience.

Candidates for the appointment (a) must be Associate Members of the Town Planning Institute or hold an equivalent qualification, and have had a general experience of planning work. Experience in a Gounty Borough would be an advantage.

Candidates for the appointment (b) must be competent draughtsmen, and have general knowledge and experience of Town Planning work.

Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.

Application forms obtainable from the undersigned, must be returned not later than 25th February, 1942.

(Sgd.) H. A. EDWARDS.

(Sgd.) H. A. BDWARDS, Town Clerk. Town Hall, Rast Ham, R.6. February, 1949.

COUNTY BOROUGH OF DERBY.
APPOINTMENT OF PLANNING STAFF.
ONE GENERAL PLANNING ASSISTANT.
Grade YI (£595-£650).
ONE GENERAL PLANNING ASSISTANT.
Grade YI (£595-£650).
ONE GENERAL PLANNING ASSISTANT.
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ONE GENERAL
Grade YI (£90-£235).
ONE GENERAL
Grade YI (£90-£235).
Applications are invited for the above appointments on the Planning Staff of the Borough Engineer and Surveyor.
Applicants should possess appropriate qualifications and should be experienced in Urban planning.
Preference will be given in one instance to a person with an architectural background, and in another to a person with a surveying (valuation and estates) hackground.
The appointments will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The appointments will be terminable by one month's notice on either side.
Applications, stating which grade of post is applied for, age, qualifications, experience, and accompanied by copies of three recent testimonials or names of two persons to whom reference may be made, should be addressed to M. I., Francis, F.R.I.Cs., M.I.Mun.E.. Borough Engineer and Surveyor, The Council House, Derby, and endorsed "Planning Appointment." to be received not later than 28th February, 1949.
Canvassing, directly or indirectly, will be a disqualification, and candidates should sta's whether they are related to any Member or Senior Official of the Council House, Derby.

C. ASHTON, Town Clerk. The Council House, Derby. 4th February, 1949.

be capable of taking charge of large building contracts.

(d) ASSISTANT ARCHITECTS. Salary ranges (1) £250 ×£20-£510. (2) £250 ×£15 ×£15 ×£20-£570. (3) £460 ×£20-£525. and (4) £450 ×£15-£496. Candidates must have good architectural ability and experience.

The above appointments are subject to the provisions of the Local Government Superannustion Act, 1937, as amended by the W.R.C.C. General Powers Act, 1948, and to a medical examination. Applications on forms to be obtained from this office must be addressed to me and should be received by me on or before Monday, the 21st February, 1949.

Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT,

West Riding County Architect.

County Hall, Wakefield. 1609

County Hall, Wakefield. 1609

Amended Advertisement. 1609

Amended Advertisement.
CITY AND COUNTY OF THE CITY OF

EXETER.

WATERWORKS DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT

ENGINEER.

Applications are invited for the appointment of a Senior Assistant Engineer. on the permanent staff of the City Engineer, Surveyor and Water Engineer. The appointment will be at a salary in accordance with Grade A.P.T., V. of the National Scheme of Conditions of Service, commencing at 2520 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £570 per annum.

Applicants must be Corporate Members of the Institution of Structural Engineers and have considerable experience in the design and construction of reinforced concrete structure.

The City Water Committee will endeavour to provide housing accommodation for the successful candidate if required.

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

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials, must be delivered not later than noon on Wednesday, 23rd February, 1949, endorsed "Appointment of Senior Assistant Engineer."

J. BRIERLEY, A.M.I.C.E., M.I.Mun.E., F.G.S.

City Engineer, Surveyor and Water Engineer.

8th February, 1949.

CITY OF LIVERPOOL.

ARCHITECTURAL AND HOUSING

DEPARTMENT.

Applications are invited for the following

appointments:—
(a) PRINCIPAL ARCHITECT (Re-development Section). Salary £1,000 × £50 to £1,250 per

(a) PRINCIPAL ARCHITECT.
Section). Salary £1,000 × £50 to £1,250 per annum.

(b) PRINCIPAL HOUSING ARCHITECT.
Salary £1,000 × £50 to £1,250 per annum.

(c) MAINTENANCE AND WORKS OFFICER.
Salary £200 × £50 to £1,000 per annum.

The persons appointed will, under the City Architect and Director of Housing, be responsible for, in the case of :—

Appointment (a): The architectural aspects of statutory planning schemes and the design of proposed buildings, the preliminary examination of site and the preparation of site plans, and for such other duties as may be entrusted to him by the City Architect and Director of Housing.

Experience in the preparation of large scale architectural planning and re-development schemes to modern standards is essential.

Appointment (b): The design and supervision of all housing development and re-development schemes undertaken by the Department.

For appointments (a) and (b) applicants must be Fellows or Associates of the R.I.B.A., and the possession of Town Planning qualifications would be desirable.

Andoniment (c): The maintenance of the Cor-

be Fellows of Associates of the Rel. D.A. at the possession of Town Planning qualifications would be desirable. Appointment (c): The maintenance of the Corporation Housing Estates, comprising approximately 50.000 houses, as well as the supervision and control of all direct labour building works undertaken by the Department, and control of the labour force appertaining thereto. Applicants should have had considerable practical experience in the control of building and maintenance contracts on a large scale, and the purchasing of all necessary building materials, plant, etc. Experience of building estimating is desirable. The appointments are superannuable and subject to the Standing Orders of the City Council, successful candidates being required to pass a medical examination.

Applications on the prescribed form, which may be obtained from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2, should be accompanied by copies of not more than three testimonials, and should be returned to him not later than 2th February, 1949. Canvassing disqualifies.

THOMAS ALKER.

Toton Clerk.

February. 1949.

Liverpool. February, 1949.

CORPORATION OF LONDON.
CORPORATION OF LONDON.
CITY SURVEYOR'S OFFICE.
Applications are invited for the following appointments, in the City Surveyor's Office:
ASSISTANT ARCHITECTS AND SURVEYORS. Salary £400 to £600 per annum (inclusive of consolidated bonus), according to age, qualification and experience.
Applicants, aged 25 to 35 years, should either have qualified or he about to qualify for Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institution of Chartered Surveyors (Building Sub-division).
The 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. In the event of establishment to the permanent staff temporary service will count for the purposes of superannuation. Such appointments will be subject to the provisions of Local Government Superannuation. and applicants will be required to pass a medical examination.

Previous experience with a Municipal Body is

amination. Previous experience with a Municipal Body is

not essential.

Applications, endorsed "Technical Staff." to be made to George Holliday. F.R.I.C.S., City Surveyor, 55-61. Moorgate, E.C.2, giving the following particulars: Service with Armed Forges. age, qualifications or intentions in connection therewith, previous training, positions and experience, salary required, date when available to commence duties if selected, together with copies of two testimonials.

CITY OF PETERBOROUGH.

CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade V, A.P.T., i.e., £520, rising to £570 per annum.
Applicants should be capable of carrying out work under the minimum of supervision. and experience in the design and construction of modern schools will be considered an advantage.

The City be considered an advantage.
The City Council have adopted the National Scheme of Conditions of Service: The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and endorsed "Architectural Assistant, Grade V," must be delivered to the undersigned not later than Friday, 4th March, 1949.
Applicants must disclose whether they are related to any Senior Official or Member of the Authority. Carvassing, either directly or indirectly, will be deemed a disqualification.

ARTHUR J. REEVES.

Town Hall, Peterborough.

Town Hall, Peterborough. February, 1949.

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RUBAL DISTRICT COUNCIL OF COOKHAM.
APPOINTMENT OF DEPUTY TO ARCHITECT
AND BUILDING SURVEYOR.
Applications are invited for the appointment of
Depuly to the Architect and Building Surveyor at
a consolidated salary in accordance with Grade II
(£420×£15—£465) of the A.P.T. Division of the
National Scales of Salaries.
Applicants should have had good experience in
all duties appertaining to the office of an Architect and Surveyor to a Local Authority, and preference will be given to those who have passed the
Intermediate Examination of The Royal Institution
of British Architects or The Royal Institution of
Chartered Surveyors. The person appointed must
provide a motor-car for use in connection with his
duties, for which an allowance up to 10 h.p. will
be paid in accordance with the National Scale.
The appointment will be subject to (a) the provisions of the Local Government Superannuation
Act, 1937, (b) the successful candidate satisfastorily passing a medical examination, and (c) the
National Scheme of Conditions of Service.
A Council House will be made available if required.
Applications, stating age, qualifications and experience, accompanied by copies of three recent
testimonials, must reach the undersigned by the
28th February, 1949.

City Of Nottingham.

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T., IV, £480

Applicants should have passed the Intermediate examination of the Royal Institute of British Architects and had good office experience.

The appointment is subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications are to be on forms to be obtained from R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than Monday, 28th February, 1949.

J. E. RICHARDS,

J. E. RICHARDS, Town Clerk

The Guildhall, Nottingham.

GOVERNMENT OF NORTHERN IRELAND
MINISTRY OF HEALTH AND LOCAL
GOVERNMENT.
ASSISTANT ARCHITECTS.
Applications are invited for unestablished posts
of Assistant Architects in the Ministry of Health
and Local Government. The appointments will
so far as can be foreseen last for several years.
Remuneration: Successful candidates will be
remunerated within one of the following salary
ranges:—

ranges:—
Range A:—£700-£900 per annum inclusive,
Range B:—£500-£750 per annum inclusive,
and the commencing salary within these ranges
will be fixed in each case according to qualifications and experience. Two vacancies exist at
Range A for Houseing work, one at Range B for
Planning, and one at Range B for Public Health
work

Planning, and one at Range B for Public Rearm work.

Qualifications: Candidates must be Registered Architects by examination. In addition, the candidates for the Housing and Public Health vacancies should, preferably, have experience in up-to-date house or hospital design and layout, as the case may be, and some aptitude for research into comparative standards of design and construction. In the case of a Planning appointment candidates should preferably possess a recognized qualification in town planning work.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 war, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to, discharge the duties efficiently.

that such cabanases the discharge the universe time will be able to, discharge the universe time time that the discharge the universe that the discharge the particulars of qualifications and experience, and stating the past applied for, together with copies of two recent testimonials, should be sent, without delay, to the Assistant Secretary (Establishments), Ministry of Finance, Stormont, Belfast. 1590

ANGLESEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the permanent appointment in the County Architect's Department of ONE JUNIOR ARCHITECTURAL ASSISTANT. Salary Grade I, commencing at 2390 per annum, and rising to £435 per annum. Applicants should have had good training in general architectural work, and be capable of preparing working drawings and details under supervision.

The appointment will be subject to the provisions of the Local Government Officers' Superannuation Act., 1937; candidates called for interview will be required to undergo a medical examination by the County Medical Officer.

Applications, stating age, training, qualifications, experience, and past and present appointments, and giving the names of two referees and accompanied by a copy of one recent testimonial, should be delivered to the undersigned not later than Monday, 28th February, 1949.

Shire Hall, Llangefni, Anglesey.

1691

SURRBY COUNTY COUNCIL.

GOUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of
PRINCIPAL ASSISTANT ARCHITECT, at a
commencing salary of 2800 per annum, rising by
annual increments of £25 to a maximum of £900

commencing salary of 2900 per annum, rising by annual increments of £25 to a maximum of £900 per alnum.

Applicants must hold either a Degree in Architecture or be Members of the Royal Institute of British Architects, and should have had a good experience in the control of staff, organization of work, and had a good training and an adequate experience in the design and construction of modern buildings.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Countil, County Hall, Kingston-upon-Thames, not later than the 5th March, 1949.

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

The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

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DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 1741

SURREY COUNTY COUNCIL.

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of SUPERINTENDENT CLERK OF WORKS, in the County Architect's Department.

The salary will be in accordance with Grade VIII, namely £685 per annum, rising by annual increments of £25 to a maximum of £760 per annum, plus London allowance of £30.

The successful applicant will be responsible for the control and organization of all Clerks of Works engaged on the supervision of major contracts.

Applicants must have had full experience.

contracts.

Applicants must have had full experience in the building trade and possess sound knowledge of

Applicants must have had full experience in the building trade and possess sound knowledge of all materials.

Full details should be given of present and previous appointments, including the duties of the appointment, and the salary attaching thereto. The appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 5th March. 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 1742

County Hall, Kingston-upon-Thames.

Available only to persons excepted from the Control of Engagement Order. 1947, No. 2021.

BOROUGH OF DAGENHAM.

CHIEF HEATING AND VENTILATING

ENGINEERING ASSISTANT.

The Council invite applications for this appointment, Grade V, £252-£570 per annum, plus London weighting. Candidates must be Members (by examination) of the Institution of Heating and Ventilating Engineers, and have some electrical knowledge. The post is a technical one on the staff of the Borough Engineer and Surveyor, and the appointed candidate will be required to supervise and/or advise on all heating, ventilating and electrical work carried out by or for the Council. Application forms and full particulars are obtainable from the Borough Engineer. Closing date 28th February, 1949. Canvassing disqualifies.

KEITH LAUDER,
Civic Centre, Dagenham.

Civic Centre, Dagenham.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

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

ONE SENIOR ASSISTANT ARCHITECT.

Grade VI., A.P. and T. Division. Salary £595.£660.

Applicants should be Associate R.I.B.A., with a good knowledge of work undertaken by a Local Authority, preferably with experience in School work.

Authority, preferably with experience in school work.

The appointment will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Form of application may be obtained from Thos. W. East. F.R. I.B.A. Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with copies of three testimonials, to arrive not later than Monday. 7th March, 1949.

Canvassing, directly or indirectly, will be a diaqualification.

C. ASHTON,

Tawn Clerk.

The Council House, Derby.

BOROUGH OF ILKESTON.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade I of the National Scale of Salaries, i.e., £390 te 435 per annum.

Applicants for the appointment should have passed the Intermediate examination R.I.B.A. or be of equivalent standard, and those who have housing Schemes would be preferred.

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

Applications, stating age, training, qualifications, experience, past and present appointments, and accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than Monday, 28th February, 1949.

Applicants must state in writing whether or not they are related to any Member or Senior Officer of the Council.

Canvassing, directly or indirectly, will disqualify.

A. O. MARSHALL, M.I.Mun.E.,

M.I.Struct.E., F.I.A.A..

Canvassing, directly or indirectly, will disquality.

A. O. MARSHALL, M.I.Mun.E., M.I.Struct.E., F.I.A.A., M. Grough Engineer and Surveyor.

3rd February, 1949.

1690

JOINT COUNTY COUNCIL OF PERTH AND KINROSS.

PLANNING DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT PLANNING OFFICER. Salary 2550-2610 (A.P.T. Va).

Applicants must be full Members (Final examination) of one of the following:—R.I.B.A., Institution of C.E., Institution of Mun.E., or Royal Institution of Charlered Surveyors, and must in addition be Associate Members or have passed the Final examination of the Town Planning Institute, with practical experience in Planning Work and conversant with the Town and Country Planning (Scotland) Act, 1947, and the various regulations and orders.

The appointment will be subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate may be required to pass a medical examination.

Applications, stating age, qualifications and ex-

and the successful candidate may be required to pass a medical examination.

Applications, stating age, qualifications and ex-perience, with one copy of three recent testi-monials, should be lodged with the County Clerk, County Offices, York Place, Perth, not later than 12th March, 1949.

CITY OF YORK.
Applications are invited for the permanent appointment of SENIOR ARCHITECTURAL ASSISTANT (Grade A.P.T., V, 2520 to 2575 per

ASSISTANT (Grade A.P.T., V, 2520 to 2575 per annum).

Applicants must be A.R.I.B.A., and should have had a wide experience in Municipal work. Preference will be given to applicants who have had good housing experience. Conditions of appointment, together with application form, can be obtained from the undersigned.

Applications, together with copies of three recent testimonials, must be delivered not later than first post on 26th February. 1949.

THE TENANCY OF A HOUSE WILL BE OFFERED IF CONSIDERED NECESSARY.

CHAS. J. MINTER,

City Engineer and Architect.

Guidhall, York.

ebruary, 1949 BIRMINGHAM REGIONAL HOSPITAL
BOARD.
Applications are invited for the undermentioned appointment in the Architect's Depart-

mentioned appointment in the Architect's Department:
CLERK OF WORKS. Salary scale A.P.T., IV, 2480-2525. Applicants should have a good practical knowledge of all trades and experience in measuring up and dealing with time sheets, delivery invoices, and general job book-keeping. The person appointed to the post will be required to visit hospitals within the countries of Warwickshire, Worcestershire, Staffordshire, Shropshire and Herefordshire, and to prepare reports from schedules of conditions and specifications relating to maintenance work, and may be called upon to fulfil the duties of Clerk of Works in specific projects. Preference will be given to applicants who have passed the R.I.B.A. examination for Clerks of Works. Applications, giving particulars of age, experience and qualifications, and the names of three referees. should be sent to the Secretary, Birmingham Regional Hospital Board, 10, Augustus Road, Birmingham, 15, to be received by 27th March. 1949.

LONDON COUNTY COUNCIL.

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Ferndale Road. S.W.4. to commence as soon as nossible TWO SENTIOR ASSISTANTS in BUILD-ING and SURVEYING. Applicants should be well qualified technically and should have good teaching and industrial or professional experience. Excerience of the operation of National Certificate schemes or of administrative work in industry will be regarded as recommendations, and for one post membership of the Royal Institute of Chartered Surveyors will be an additional recommendation.

Salary £700×£25—£300, plus London allowance and graduate and training additions as appropriate. Application forms and further particulars (sammed addressed foolscap envelope necessary), from the Principal at the School, returnable by 28th February, 1949. (104)

BOROUGH OF SOUTHALL.

APPOINTMENT OF SENIOR TOWN
PLANNING ASSISTANT.

Applications are invited for the above appointment on the permanent staff of the Corporation, at a salary in accordance with Grade A.P.T., Va, of the National Scheme (£255×£20—£610), plus appropriate London weighting.
Candidates must hold a recognized Town Planning qualification.
The appointment is subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act. 1937, and the successful candidate will be required to pass a medical examination.

It is a condition of appointment that the successful applicant shall, be a member of his appropriate trade union, professional organization or other recognized body.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him on or before Monday, 7th March, 1949.

Canvassing will disqualify.

J. S. SYRETT, Town Clerk.

Town Clerk's Office, Southall. 10th February, 1949.

COUNTY BOROUGH OF HALIFAX.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited for the following
ppointments in the Borough Engineer's depart-

appointments in the Borough Engineer's department:—
SENIOR ARCHITECTURAL ASSISTANT.
Grade VII, A.P.T., £635-£710 per annum.
SENIOR ARCHITECTURAL ASSISTANT.
Grade VI, A.P.T., £595-£660 per annum.
ARCHITECTURAL ASSISTANT. Grade III,
A.P.T., £450-£495 per annum.
ARCHITECTURAL ASSISTANT. Grade III,
A.P.T., £420-£465 per annum.
ARCHITECTURAL ASSISTANT. Grade III,
A.P.T., £420-£465 per annum.
The successful candidates will be engaged on such schemes as the design and construction of new Primary and Secondary Schools, and on the proposed Extensions to the Technical College.
Previous experience in Local Government is not essential, and although housing accommodation is not immediately available, the Corporation will endeavour, where necessary, to purchase houses for the successful applicants.
Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of recent testimonials, and appropriately endorsed, should be delivered to the undersigned not later than Monday, 28th February, 1949.

R. de Z. HALL,

R. de Z. HALL, Town Clerk.

Town Hall, Halifax. 5th February, 1949.

Town Hall, Halifax.

5th February, 1949.

BOROUGH OF WEMBLEY.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following perARCHITECTURAL DIVISION:

(a) FIRST ASSISTANT ARCHITECT. A.P.
and T. Division, Grade V (£520 by three annual
increments to £570 per annum, plus London
"weighting" allowance, which is £30 per annum
at the age of 26 and over).

Applicants should be Associates of the Royal
Institute of British Architects, and have had
good architectural experience, including the design of houses and other Municipal buildings, and
be accustomed to the preparation of working drawvision of works in progress.

(b) ARCHITECTURAL ASSISTANT. A.P.
and T. Division, Grade I or II (Grade I. £390 by
three annual increments to £435 per annum,
Grade II, £420 by three annual increments to
2465 per annum, plus London "weighting" allowance, as indicated above).

Applicants must have had experience in connection with Municipal housing schemes and the
construction of flats.

Evidence of the passing of the Intermediate
examination of the Royal Institute of British
Architects will qualify the successful applicant
for the Grade II salary.

TOWN PLANNING DIVISION:

TOWN PLANNING DIVISION:

TOWN PLANNING BASISTANT. A.P. and
T. Division, Grade IV (£480 by three annual
increments to £25 per annum, plus London
"weighting" allowance as indicated above).

Preference will be given to candidates who
possess the qualification of the Town Planning
Institute and who have had previous experience
of olanning in the office of a Local Authority.

The appointments are subject to one month's
notice on either side, to the National Scheme of
Conditions of Service, the provisions of the Local
Government Superannuation Acts, 1937 and 1939,
and to the successful applications, present and previous appointments.

examinations.

Applications, stating full name, address, age, qualifications, present and previous appointments training, and full details of experience, and whether a relative of any Member or Senior Officer of the Council, together with the names and addresses of three referees (testimonials not required), must be received by the Borough Engineer and Surveyor by the 25th February, 1949. Canvassing, directly or indirectly, of any Member of the Council will disqualify an applicant.

KENNETH TANSLEY, Town Clerk.

Town Hall, Wembley, Middlesex. 17th February, 1949.

COUNTY BOROUGH OF READING.
ABCHITECTURAL ASSISTANTS-BOROUGH
ARCHITECT'S DEPARTMENT.
Applications are invited for the following
appointments in the Borough Architect's De-

ant, vis.:—ant, vis.:—A post in Grade I (£390-£435). Applicants I have a knowledge of architectural work, od draughtamen, and able to read working

should have a knowledge of architectural work, be good draughtamen, and able to read working drawings.

(b) Two posts in Grade III (£450-£495).

(1) Two posts in Grade III (£450-£495).

Applicants for one post should have had varied experience in architectural work, must be good draughtamen, and capable of supervising work; ability to write specifications and prepare detailed working drawings is essential. (2) Applicants for the second post, primarily to carry out duties of Retimator, and should be able to prepare estimates for all types of work and write specifications.

(c) A post in Grade VI (£595-£660). Candidates should hold an appropriate architectural qualification, and must have had experience of handling schemes for works from inception to completion.

quanticasion, and mass have the properties of the pasting schemes for works from inception to completion.

In all grades, experience in a Local Government department is desirable, but not essential. The appointments will be subject to: (1) The National Scheme of Conditions of Service, (2) the Local Government Superannuation Act, 1937, (3) the passing of a medical examination by the successful candidates, and (4) determination by one month's notice in writing on either side. Applicants must state their age, qualifications, full details of experience and previous appointments, together with the names and addresses of three persons to whom reference can be made. Applications, endorsed "Architectural Assistant" (a), (b)(1), (b)(2), and (c) respectively, should be received by me not later than the expiration of fourteen days after the publication of this advertisement.

G. F. DARLOW, — Town Clerk

G. F. DARLOW, Town Clerk.

Town Hall, Reading. February, 1949.

rebruary, 1949.

CROWN AGENTS FOR THE COLONIES.
Applications from qualified candidates are invited for the following post:—
QUANTITY SURVEYOR required by Sierra Leone Government, Public Works Department, for one tour of 18 to 24 months, with prospect of permanency. Commencing salary and expatriation pay according to experience up to £1,200 a year. Outfit allowance £60. Free passages. Candidates must be able to prepare Bills of Quantities for Estimates and Contracts by direct or indirect labour. Preference given to candidates with professional qualifications. Apply at once by letter. stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper. to the Crown Agents for the Colonies. 4, Millbank, London, S. W. I, quoting M/N/24218/5D on both letter and envelope. 1745

BOROUGH OF SHREWSBURY.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, anlary A.P.T., Grade III, Applicants must be well experienced in the design and construction of dwelling houses and domestic buildings. The candidate appointed will be mainly engaged on housing work.

Preference will be given to candidates who have passed the Intermediate or Final examinations of the R.I.B.A. or the R.I.C.S., or who are preparing to sit for these examinations in the near future.

preparing to sit for these examinations in the near future.

The Council will endeavour to assist the successful candidate in securing housing accommodation if this is required.

The appointment will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination, and will be terminable by one month's notice on either side.

Applications must be on forms to be obtained from the Borough Surveyor, Mr. F. R. Dinnis, A.M.I.C.E., Guildhall, Shrewsbury, and must be received by him, together with copies of three recent testimonials, not later than 28th February, 1949.

S. R. H. LOXTON.

S. R. H. LOXTON, Town Clerk.

Guildhall. Shrewsbury. 2nd February, 1949.

WILTS COUNTY COUNCIL.

ASSISTANT ARCHITECT.

ADDICATIONS are invited for the appointment of ASSISTANT ARCHITECT.

ADDICATION ARCHITECT on the permanent staff of the County Architect's Department. Salary on Grade V of the A.P.T. Division of National Scales (£520-£570 per annum).

Candidates should be suitably qualified, and preferably have had experience of the planning, design and construction of educational buildings and other architectural work undertaken by a Local Authority.

The appointment is superannuable, subject to medical examination, and terminable by one month's notice on either side.

Canvassing disqualifies.

Forms of application may be obtained from the County Architect, County Hall. Trowbridge, and should be forwarded to him within two weeks from the date of the publication of this advertisement.

P. A. SELBORNE STRINGER.

P. A. SELBORNE STRINGER,
Clerk of the County Council.
Trowbridge, Wits.
9th February, 1949.

SPALDING RURAL DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the full-time appointment of Technical Assistant, in A.P.T. Division, Grade IV, of the National Scale (commencing at £480 and rising to £525 per annum). The successful applicant will work under the direction of the Council's Architect and Building Surveyor, and his main duties will be to prepare Bills of Quantities, Estimates, Valuations, and settlement of accounts in connection with the Council's housing schemes. Applicants should have a sound and practical knowledge of architectural and quantity surveying work.

The appointment will be subject to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications and experience, and earliest date on which duties could be commenced if appointed, together with copies of two recent testimonials, must reach the undersigned not later than 2nd March, 1949.

The Council are prepared to offer housing accommodation in the Rural District to the successful applicant.

L. FENNELL.

Clerk to the Council.

Council Offices, 10. The Crescent, Spalding. 1718

BOROUGH OF COLCHESTER.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the above appointment in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade IV, of the National Scales of Salaries (£480, rising by annual increments of £15 to £525 per annum).

Applicants should have received a thorough training in general architectural work, and have had good experience in design and construction; also in the preparation of working drawings and site surveys, preferably in connection with housing work undertaken by a Local Authority.

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

Applications, stating age, qualifications and experience, endorsed "Architectural Assistant," and accompanie

Town Hall, Colchester. 10th February, 1949.

COUNTY OF ESSEX.

ILFORD BOROUGH COUNCIL.

Applications are invited for the post of ARCHITECTURAL ASSISTANT. A.P.T. Division. Grade
III., on the staff of the Essex County Council, to
work in the office of the Borough Engineer of
Ilford, to deal with Education Architectural work
within the Borough. Applicants for this post
should have had a good general training and

should have had a good production of the experience.

Application must be made on a form to be obtained from the Borough Education Officer, and returned to him at the Town Hall, Ilford, together with copies of not more than three recent testimonials, within fourteen days of the appearance of this advertisement.

K. F. B. NICHOLLS.

Town Clerk.

Town Hall, Ilford.

COUNTY BOROUGH OF BOURNEMOUTH.
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the following appointments:—
(1) TOWN PLANNING ASSISTANT, with Civil Engineering experience. Grade A.P.T., IV, £490-£525 p.a.
(2) TOWN PLANNING ASSISTANT, with Architectural experience. Grade A.P.T., IV, £480-£525 p.a.
Applicants should have bed Very Laboratory.

(2) TOWN PLANNING ASSISTANT, with Architectural experience. Grade A.P.T., IV, £480-£525 p.a.

Applicants should have had Municipal planning experience and have passed the Inter. examination of the Town Planning Institute or its equivalent and/or a qualification in Civil Engineering or Architecture. Consideration may be given to the payment of a higher scale salary for the above appointments in respect of any applicant with sweets qualifications.

(3) TOWN PLANNING ASSISTANT (Survey). Grade A.P.T., II, £42-£465 p.s.

Applicants should have had Municipal general planning experience in basic survey and research work, and passed the Inter. examination of the Town Planning Institute or equivalent.

All appointments will be terminable by one month's notice in writing on either side, and subject to the conditions of the National Scheme of Conditions of Service, the provisions of the Council in force from time to time, and the Local Government Superannuation Act, 1937. The successful candidates must pass a medical examination. Canvassing will disquality.

Applications, appropriately endorsed and stating in the following order: name, address, age, qualifications, present and past appointments, with dates and full details of experience, together with copies of three recent testimonials, should reach me not later than Monday, 22th February, 1949.

A. LINDSAY CLEGG.

A. LINDSAY CLEGG, Town Clerk.

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ISLE OF ELY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned appointments:—
(a) DEPUTY COUNTY ARCHITECT. Grade
VII. Salary £555 to £710 p.a. Qualifications: a
Chartered Architect, having passed the Final examination of the R.I.B.A. or who holds the appropriate degree of a University and with practical experience.

priate degree of a University and with practical experience.

(b) QUANTITY SURVEYOR. Grade VI. Salary £595 to £66 p.a. Qualification: certificate of the Royal Institute of Chartered Surveyors or equivalent in experience.

(c) SECOND SENIOR ASSISTANT ARCHITECT. Grade V. Salary £520 to £570 p.a. Qualification: has passed the Final examination of the Royal Institute of British Architects, and with some practical experience.

(d) ENGINEERING ASSISTANT. Grade V. Salary £520 to £570 p.a. Qualification: has a knowledge of electrical and heating installations, and holds the qualification of appropriate Societies or Associates or is well qualified by experience.

perience.

(e) JUNIOR ARCHITECTURAL ASSISTANT.

Grade I. Salary £390-£435 p.a. Good knowledge
of Architectural and Building work. Preferably
passed the R.I.B.A. Inter. exam.

The appointments are permanent, and are
subject to the provisions of the National Scheme
of Conditions of Service, to the Local Government
Superannuation Act, 1937, and to a medical examination.

Superannuation Act, 1937, and to a maintaion.

The office is progressive, and has not been sectionalised, so that excellent experience is available over the whole field of County Council building administration.

Forms of application may be had from the County Architect, County Hall, March, Cambs., and are to be returned not later than 14th March, 1949.

R. F. G. THURLOW, Clerk of the County Council. County Hall, March. 7th February, 1949.

COUNTY BOROUGH OF BARNSLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
SENIOR ASSISTANT ARCHITECT (SCHOOLS).
Applications are invited for the appointment of a Senior Assistant Architect (Schools), in the Borough Engineer and Surveyor's Department.
The salary will be in accordance with Grade
A.P.T., VII, of the National Scales, viz., £635×
£25—£710.

The salary will be in accordance with Grade A.P.T., VII, of the National Scales, viz., £635×£25-£710.

Candidates must be Members of the Royal Institution of British Architects, must have had sound experience in architectural design and in the preparation of working drawings, with full understanding of modern school construction.

The appointment will be subject to termination by one month's notice on either side, the Corporation's Staffs Conditions of Service, and to the provisions of the Local Government Superannation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications, endorsed "Senior Assistant Architect (Schools)" stating age, qualifications, and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the Borough Engineer, Town Hall, Barnsley, not later than Monday, 'th March, 1949.

Canvassing, either directly or indirectly, will disqualify.

A. E. GILFILLAN.

A. E. GILFILLAN. Town Clerk.

Town Hall, Barnsley.

February, 1949.

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointment in the Engineering Department:—
(1) DRAUGHTSMEN for Architectural work at the Head Office in Central London.

Applicants should have had good general experience in Building, Design and Construction. Preference will be given to candidates who have passed the R.I.B.A. Intermediate examination.

The community salary will be from £400.£500 per annum, dependent upon qualifications and experience.

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annum, dependent on quanneations and experience.

The salaries for the above posts are provisional, and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Apolications should be made on forms obtainable from the Establishments Officer, London Electricity Board. 46/47, New Broad Street, London, Electricity Board. 46/47, New Broad Street, London, Electricity Board. 46/47, New Broad Street, London, Electricity Board. 46/47, New Broad March. 1949, and applicants should state for which appointment they are applying, indicating their preference where alternative sub-areas are quoted.

1748

CORPORATION OF GLASGOW.
HOUSING DEPARTMENT.
Applications are invited for the uncomponiuments: undernoted intments :-

ASSISTANT ARCHITECTS. Grade I.

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ASSISTANT CIVIL ENGINEERS. Grade I.

ASSISTANT Grade I. QUANTITY SURVEYORS.

Salary scale, A.P.T., VI, £595-£660.

ASSISTANT ARCHITECTS. Grade 11.

ASSISTANT CIVIL ENGINEERS. Grade II.

ASSISTANT QUANTITY SURVEYORS.

Salary scales, A.P.T., I, III and V: £390-£435, £450-£495; £520-£570.

Appointments to Grade I will be restricted to those candidates who are members of the appropriate professional body. For appointments to Grade II applicants should have passed the Final examination of the appropriate professional body or should hold an equivalent qualification.

In the case of Grade II appointments, the commencing salary will be fixed according to age and experience.

In the case of Mana.

commencing salary will be fixed according to age and experience.

The appointments will be to the permanent Establishment of the Department, and are subject to the provisions of the Corporation's Superannation Scheme. Successful applicants will require to pass a medical examination.

The appointments are terminable on either side by one month's notice in writing.

Applications, indicating the position applied for, and stating age, particulars of training, experience and qualifications, should be addressed to the undersigned, and should be received within M days of the publication of this advertisement.

A. G. JURY.

Director of Housing.

Housing Department, 20, Trongate,

Housing Department, 20, Trongate, Glasgow, C.1.

CITY OF LEEDS EDUCATION COMMITTEE.

SENIOR SURVEYOR.

Applications are invited for the appointment of a Senior Surveyor in the School Maintenance Section of the Education Department. Salary A.P.T. Division, Grade VI (2595-2660).

Preference will be given to applicants who are Members of the Royal Institute of British Architects or the Royal Institute of Chartered Surveyors.

Members of the Royal Institute of Chartered Surveyors.
Applicants should have had experience in school planning, furnishing, and the maintenance of buildings.
Forms of application, which should be returned within fourteen days of the appearance of this advertisement, may be obtained from the Director of Education, Education Offices, Calverley Street, Leeds, 1, on receipt of a stamped addressed foolscap envelope.
The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the conditions of service laid down by the National Joint Council for Local Authorities.
Canvassing in any form, either directly or indirectly, will be a disqualification,
GEORGE GUEST,
Director of Education.
Education Offices, Leeds, 1.

Education Offices, Leeds, 1. February, 1949.

BASTERN REGIONAL HOSPITAL BOARD, SCOTLAND.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—
(a) ASSISTANT ARCHITECT. A.P.T., Grade VII, £635-£710.
(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade V. £520-£570.

(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade V. 2520-2570. (c) ARCHITECTURAL ASSISTANT. A.P.T., Grade III. 2450-2495. (c) Architectory of the R.I.B.A., and have bad good general experience in the design, construction, and maintenance of public buildings, including hospitals. (candidates for appointment (c) should have passed the Intermediate examination of the R.I.B.A., have had some experience in an Architect's office, and be capable of undertaking surveys and preparing working drawings under supervision.

working drawings under supervision.

The appointments will be subject to the National Health Service (Scotland) (Superannuation) Regulations, 1948, and successful candidates will be required to pass a medical examination.

Appointment (a) will be terminate by three months' notice, and appointments (b) and (c) by one month's notice on either side.

Canvassing in any form will disqualify.

Applications, suitably endorsed, stating age, qualifications, experience, past and present appointments and accompanied by the names and addresses of three referees, should be sent to the Secretary, Eastern Regional Hospital Board.

Bracknowe, 430. Blackness Road, Dundee, not later than 5th March, 1949.

HEMEL HEMPSTEAD DEVELOPMENT
CORPORATION.
ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) SENIOR ASSISTANT ARCHITECTS: (i) Architectural, (ii) Planning. Salary in the scale £550 × £50 — £750, according to age and experience. Applicants must be Associates of (for (i)) the R.I.B.A. or for (ii) the T.P.I.
(b) ASSISTANT ARCHITECTS: (i) Architectural, (ii) Planning. Salary in the scale £400 × £28—£285, according to age and experience. Applicants must have passed the Intermediate examination of (for (ii)) the T.P.I.
In addition applicants for the architectural

amination of (for (ii)) the B.I.B.A. or (for (iii)) the T.P.I.

In addition applicants for the architectural bosts should have a sound knowledge of the planning and design of buildings, the writing of specifications, and a working knowledge of quantities. For the planning posts a knowledge of town planning with special reference to the problems of new town development is expected. General conditions: The appointments will be subject to the Development Corporation's staff rules and conditions of service in particular to one month's notice of termination on either side. Contributory superannuation, with an opportunity of entering or continuing in a Local Government Superannuation Fund, will be provided.

Government Superannuation Fund, will be provided.

The officers appointed will be expected to find their own accommodation in or near Hemel Hempstead.

Applications, giving full particulars of age, qualifications and experience, together with the names of two persons to whom reference may be made, should be clearly marked on the envelope with the title of the post for which application is made, and addressed to reach the undersigned not later than Monday, 28th February, 1949.

W. O. HART,

W. O. HART,

Westbrook Hay, Hemel Hempstead, Herts. 1716

KENT COUNTY COUNCIL.

Applications are invited from Members of the Royal Institute of British Architects for the following appointments:

Applications are invited from Members of the Royal Institute of British Architects for the following appointments:—
(1) ONE SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VII (2635-2710).
(2) ONE SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VI (2595-2660).
(3) FIVE ASSISTANT ARCHITECTS. A.P.T., Grade V(a) (£550-£610).

Experience in an Architect's department of a Local Authority will be an advantage, but is not essential.

The posts are superannuable, and successful

Local Authority will be an advantage, but is not essential.

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

Candidates for (1) must be experienced in the design and construction of buildings and competent to take charge of schemes.

Candidates for (2) must have good general experience in modern building practice and be competent to take charge of schemes.

Candidates for (3) must have good general experience in modern building practice.

Applications. on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than fourteen days from the appearance of this advertisement.

W. L. PLATTS.

Clerk of the County Council.

County Hall, Maidstone. 5th February, 1949.

Clerk of the County Council.

County Hall, Maidstone.

5th February, 1949.

REGIONAL HOSPITAL BOARDS OF SCOTLAND (EXCEPT WESTERN).

CHIEF ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments in the Chief's Architect's Department, headquarters in Edinburgh:

ONE SENIOR ASSISTANT ARCHITECT.
Salary scale, A.P.T., Grade VIII. £685 to £760.
Applicants should preferably be Members of the R.I.B.A. by examination, or hold an equivalent qualification, and should preferably have had wide experience of the planning and design and construction of hospital buildings. The scope of the work will include the planning and design and construction of hospital buildings. The scope of the work will include the planning and design of new Hospitals, and applicants must have first-class architectural and organizing abilities.

ONE ASSISTANT ARCHITECT. Salary scale, A.P.T., Grade VI. £595 to £660.
Applicants should preferably be Members of the R.I.B.A., and possess a thorough general experience in architectural planning and design and construction. Special experience of Hospital work is desirable, but not essential.

ONE ARCHITECTURAL ASSISTANT. Salary scale, A.P.T., Grade V. £520 to £570.
Applicants should preferably be Members of the R.I.B.A., or be studying to sit the Final examination. And should have had a thorough architectural training and possess a good general experience of architectural work.

The posts are subject to the provisions of the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidates will be required to pass a medical examination.

tion.

Applications, giving name, address, age, qualifications, experience, present and previous appointments and salary, accombanied by copies of two recent testimonials and the names and addresses of two referees to whom reference may be made, should be addressed to the undersigned at 5, Cambridge Street, Edinburgh, 1, on or before the 5th March, 1949.

R. FORBES HUTCHISON, A.R.I.B.A.,

Chief Architect,

7th February, 1949.

7th February, 1949.

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following

SUBREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
ASSISTANT ARCHITECT (GRADE VIII).
Salary £685 to £760 per annum.
Applicants must hold either a degree in Architecture or be Members of the Royal Institute of British Architects, and have had a good training and an adequate experience in the Jesign and construction of modern buildings.
Applicants should give full details of present and previous appointments and salary attaching thereto.

ASSISTANT ARCHITECT (GRADE VI).
Salary £595 to £660 per annum, plus London allowance of £30 per annum.
Applicants must be Associate Members of the Royal Institute of British Architects, and should have had a good training and an an adequate experience in the design and construction of modern buildings.
ARCHITECTURAL ASSISTANT (GRADE I).
Salary £390 to £435 per annum, plus Iondon allowance up to £30 per annum.
Argicants should be of good general training and give full details in their applications.
ASSISTANT QUANTITY JURVEYOR (GRADE VI). Salary £595 to £660 per annum.
Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities. Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, sait recasuring, and in settlement of final accounts.
Full details of past and present appointments should be given.

ASSISTANT BUILDING SURVEYOR (GRADE VI). Salary £590 to £455 per annum, plus London allowance of applicants should be given to applicants should be given to £30 per annum.
Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Building Sub-Division).
They should be capable of drafting specifications in all trades, proparing schedules of dilapidations, the preparation of detailed estimates for general maintenance works, and surveys o

general maintenance works, and surveys of properties.

Full details of past and present appointments should be given.

Where applicable it is desirable that applications should be accombanied by a small sample of the applicant's work.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 5th March, 1949.

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

Kingston-upon-Thames, not later than the 5th March, 1949.
Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be anable to provide any housing accommodation, and the successful applicants will be expected to make their own arrangements in this direction.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames. 1740
CITY OF LEICESTER.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent establishment:—
(a) ASSISTANT ARCHITECT. A.P.T. Division, Grade Vol. Salary £590 to £610 per annum.
(b) ASSISTANT ARCHITECT. A.P.T. Division, Grade V. Salary £790 per annum.
(c) ARCHITECTURAL, ASSISTANT. A.P.T. Division, Grade IV. Salary £480 to £525 per annum.

annum.

(d) ASSISTANT QUANTITY SURVEYORS.
A.P.T. Division, Grade V. Salary £520 to £570

A.P.T. Division, Grade V. Salary 2520 to 2570 per annum.

Applicants for (a) and (b) should preferably be qualified by examination and have Local Government experience.

Applicants for (d) should be Professional Associates R.I.C.S. (Quantities Sub-Division), and have experience in the preparation of Bills of Quantities on the Northern system. Specifications, and the measuring up and settlement of final accounts.

and the measuring up and settlement of manacounts.

The appointments are subject to the Local Government Superannuation Act, 1297, and the Corporation's Conditions of Service. The accessful candidates will be required to pass a medical examination.

Canvassing will be a disqualification.

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

Applications, stating age, qualifications, previous and present appointments with present salary, full details of experience, etc., together with copies of two recent testimonials, should be sent to the undersigned not later than 3rd March, 1949.

be sent to the underly March. 1949.

March. 1949.

J. H. LLOYD OWEN, B.Arch.. A.R.I.B.A.,

City Architect.

1785 7. Newarke Street, Leicester.

LANCASHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointment on the permanent staft:—
SECTIONAL ARCHITECT (ADMINISTRATION). Salary 2760-2860.

Candidates must have had recent experience in progressing large scale building programmes, be conversant with contract procedure and administrative experience of staff.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F. R. I. B. A., M. T. P. I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Thursday, 3rd March, 1949.

R. H. ADCOCK.

County Offices, Preston.

4th Pebruary, 1949.

LANCASHIRE OUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the under-mentioned appointments on the staff of the County Planning Department:—

HEADQUARTERS OFFICE, PRESTON.

(a) SENIOR PLANNING ASSISTANT (ARCHITECTURAL).

A.P.T., Grade VI. 2595-2660 per annum.

Candidates for this appointment must hold suitable architectural qualifications.

Candidates for this appointment must hold suitable architectural qualifications. Previous planning experience is not essential, but preference will be given to candidates who have had experience in the preparation of detailed development plans, including the design of residential neighbourhoods and the re-planning of central areas.

neighbourhoods and the re-planning of central areas.

ACRINGTON, WIGAN AND MANCHESTER DIVISIONAL OFFICES:

(b) BENIOR PLANNING ASSISTANTS.

A.P.T., Grade VI, £595-£660 per annum.

Applicants for these appointments should possess one or more of the following or equivalent qualifications: a University Degree in Civil Engineering or A.T.P.I., A.M.I.C.E., A.B.I.B.A., A.M.I.Mun.E., A.B.I.C.S.

Provious planning experience is not essential, but preference will be given to candidates who have had a good general experience in the preparation of Town and Country Planning Schemes and the administration of relevant Acts and Orders

and the administration of relevant Acts and Orders.

Candidates for appointments (a) and (b) should state for which vacancies they wish to be con-

Candidates for appointments (a) and (b) success
state for which vacancies they wish to be considered

ACCRINGTON DIVISIONAL OFFICE:

(c) PLANNING ASSISTANT (A.P.T., Grades

LIV, £30.£255 per annum).

Applicants for this appointment need not have
had previous experience in Town and Country
Planning, but should have been trained in the
office of an Architect, Engineer or Surveyor.
Preference will be given to candidates who
possess one or more of the qualifications set out
in (b) above.

The commencing salary for appointments (a),
(b) and (c) will be determined by the qualifications and experience of the successful applicants.
The appointments will be subject to the Scheme
of Conditions of Service of the National Joint
Council and to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience and present salary, together with the names
and addresses of two persons to whom reference
may be made, should be forwarded to G. W.
Satton Brown, B.S., A.M.I.C.E., County Planning
Officer, County Offices, Preston.

R. H. ADCOOK.

Clerk of the County Council.
County Offices. Preston.

1738

SOUTH-EASTERN REGIONAL HOSPITAL

R. H. ADCOCK.

Clerk of the County Council.

County Offices. Preston.

SOUTH-EASTERN REGIONAL HOSPITAL
BOARD (SCOTLAND).

REGIONAL ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments in the Regional Architect's Department, with headquarters in Edinburgh:

(1) PRINCIPAL ASSISTANT ARCHITECT.
Salary scale, A.P.T., Grade VIII, £885 to £750.

Applicants should be Members of the R.I.B.A. or hold an equivalent qualification, and should have had good general experience in design, construction and supervision of building work, including experience in the control of staff and administration of an architectural department. A knowledge of hospital work will be considered an advantage.

(2) ARCHITECTURAL ASSISTANTS (TWO).
Salary scale, A.P.T., Grade IV, £480 to £255.
Applicants should have had a good general architectural experience and have a sound knowledge of building construction and contemporary design.

design.

The above posts are subject to the provisions of the National Health Service (Scotland) Superanuation, Regulations, 1948, and the successful candidates will be required to pass a medical

examination.

Applications, giving details of experience, past and present appointments, salaries, etc., together with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be delivered to the undersigned not later than Saturday, 5th March, 1349.

A. McROBIE, Regional Architect. 5, Cambridge Street, Edinburgh. 1736

LONDON COUNTY COUNCIL,
ESTIMATING SURVEYOR.
Applications are invited for a position of Estimating Surveyor, in the Quantities Division of the Housing and Valuation Department for work in connection with the construction of Multi-Storey Dwellings, etc., at a salary from £600 up to £700 a year. The commencing salary will be determined by the qualifications and experience of the selected candidate. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be cligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include the preparation of esimates for large works based upon Bills of Quantities, pricing of extension contracts and variation

for large works based upon Bills of Quantities, pricing of extension contracts and variation accounts, etc.

Applicants should have considerable experience is desirable.

Forms of application may be obtained from the Director of Housing and Valuer. The County Hall, Westminster Bridge, S.E.I. (stamped addressed foolscap envelope required), quoting Q.S.I.E. Canvassing disqualifies. (167).

1754

Q.S.I.E. Canvassing disqualifies. (167). 1754

KIDDERMINSTER RURAL DISTRICT
COUNCIL.

ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department. Candidates should lave considerable experience in the design and construction of dwelling houses and domestic buildings applicable to a Local Authority, together with the preparation of specifications and the measuring up of contractor's work.

Preference will be given to candidates who are capable of preparing Bills of Quantities.

The salary will be at the rate of 2450-2500 per annum, according to qualifications and experience, together with a travelling allowance in accordance with the National Scale. The appointment will be subject to the provisions of the Local Government Superannuation Act. 1937, to the National Scale. The appointment will be determinable by one month's notice in writing by either side.

Housing accommodation will be provided, if required.

Applications. endorsed "Architectural Assis-

required.

Applications, endorsed "Architectural Assistant," stating age, qualifications, particulars of experience, etc., and accompanied by copies of two recent testimonials, should reach the undersigned not later than 12 noon on the 7th March,

J. H. SWANN.

Council Offices, Land Oak House,
Kidderminster.
11th February, 1949.

1769

COUNTY OF LINCOLN-PARTS OF LINDSEY.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following

Applications are invited for the following learning:

(a) ASSISTANT ARCHITECT. Grade V. £520

(b) ASSISTANT ARCHITECT. Grade IV, £480

(b) ASSISTANT ARCHITECT. Grade IV, £480 to £525.
(c) ARCHITECTURAL ASSISTANTS (TWO). Grade III, £450 to £495.
(d) ARCHITECTURAL ASSISTANTS (TWO). Grade II, £420 to £465.
(e) JUNIOR ASSISTANT. Grade I, £390 to £455.

£435. (f) SENIOR QUANTITY SURVEYOR. Grade

2435.

(f) SENIOR QUANTITY SURVEYOR. Grade
V1. £595 to £690.
Applicants need not have had previous Local
Government experience.
A car allowance will be paid in respect of
appointments (b) and (f) in vecordance with the
County Conneil Scale, and in cases where the
successful applicants own their own ars.
The appointments are on the permanent staff
of the County Council and subject to the provisions of the Local Government Superannuation
Act, for which the successful candidates will be
required to pass a medical examination.
Applications, stating age, qualifications, experience and present salary, clearly stating which
post is being applied for and whether to their
knowledge they are related to members or senior
officers of the County Council, ard accompanied
by copies of two recent testimonials, should be
sent to the undersigned not later than the 4th
March, 1949.

A. RONALD CLARK, A.R.I.B.A.,
A.M.T.P.I.,
County Architect.
County Offices, Lincoln.

COUNTY BOROUGH OF HALIFAX.

Applications are invited for the appointment of GENERAL ARCHITECTURAL ASSISTANT. at a salary in accordance with Grade VI, A.P.T., £595-£660 per annum.

A small flat will be offered to the successful candidate.

Previous experience in Local Government is not essential, but preference will be given to those with appropriate qualifications.

Applications, stating age, qualifications, present position, salary and experience- accompanied by copies of recent testimonials, and appropriately endorsed, should be delivered to the undersigned not later than Monday, 28th February, 1949.

B. de Z. HALL.

R. de Z. HALL, Town Clerk.

Town Hall, Halifax. 5th February, 1949.

COUNTY COUNCIL OF RENFREW.

Applications are invited for the following appointments on the Council's Planning Staff.—

(a) SENIOR TOWN PLANNING ASSISTANT. Salary scale 2480 to £570 per annum, inclusive of all bonus. Candidates should have passed the Final examination of the Town Planning Institute or hold a professional qualification in Civil Engineering, Architecture or Surveying; and should have experience in the preparation of basic surveys and in the control of interim development, and should be conversant with the Town and Country Planning (Scotland) Act, 1947, and the various Regulations and Orders.

(b) INTERMEDIATE TOWN PLANNING ASSISTANT. Salary scale £420 to £495 per annum, inclusive of all honus. Candidates should have passed the Intermediate examination of the Town Planning Institute or hold a professional qualification exempting therefrom. Candidates should have experience in Planning work, and preference will be given to those having knowledge of the preparation of basic surveys and development plans.

The above appointments are on the permanent staff of the Council, and are subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937. Successful applicants will require to pass a medical examination.

Applications, giving full particulars of qualifications and experience, should be lodged within 10 days with the County Clerk, County Building, Paisley.

COUNTY BOROUGH OF BURY.

Applications are invited for the following posi-

Appappoint (a) £596-cants ship ence a receir technic (b)

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Grad £495

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10 days with the County Clerk, County Buildings.
Paisley. 1766

COUNTY BOROUGH OF BURY.
Applications are invited for the following positions in the Borough Engineer and Surveyor's Department:—
(a) TWO ENGINEERING ASSISTANTS, at a salary in accordance with A.P.T., I (£390-£435) of the National Scales.
(b) ONE ASSISTANT HOUSING INSPECTOR, at a salary in accordance with A.P.T., I (£396-£435) of the National Scales.
The appointments are subject to the Local Government Superannuation Act, 1937, and medical examination.
Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two referees, must be forwarded to me not later than 12th March, 1949.
Canvassing will disqualify.
EDWARD S. SMITH.
Municipal Offices, Bank Street, Bury.

Municipal Offices, Bank Street, Bury.

10th February, 1949.

CITY OF NOTTINGHAM.

HOUSHIG ARCHITECT'S DEPARTMENT.

Applications are invited for the following

Applications are invited to appointments:—
(a) JUNIOR ASSISTANT ARCHITECT. A.P.T.,
Grade III. Salary £450×£15—£495 nor annum.
(b) JUNIOR ARCHITECTURAL ASSISTANT.
A.P.T., Grade I. Salary £350×£15—£435 per

A.P.T., Grade I. Salary £350×£10—£450 per annum.

The appointments are in accordance with the National Joint Council's Scheme of Conditions of Service, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, giving details of age, training, qualifications, present appointment and salary, together with the names and addresses of two persons to whom reference can be made, should be forwarded to C. A. Pilkington, L.B.I.B.A., Housing Architect, The Gfilldhall, Nottingham, not later than Wednesday, 9th March, 1949.

J. E. RICHARDS,

Town Clerk.

the Local successful candidates will candidates will ended a samination.

Canvassing will disqualify.

Applications must be received not later than the first post on Tuesday, the 8th March, 1949; on the form which can be obtained from the City Architect's Dept. Town Hall. Shoffield. 1.

W. G. PAVIES, F.R.I.B.A...

City Architect. 1758

CITY OF BATH.

CITY PLANNING DEPARTMENT.

Applications are invited for the following appointments on the permanent staff:—
(a) CHIEF PLANNING ASSISTANT. Salary £595-£650 per annum (A.P.T., Grade VI), Applicants should be qualified for Associate Membership of the Town Planning Institute, and preference will be given to those who hold, in addition, a recognized qualification in Architecture, Engineering or Surveying. Previous experience, both technical and administrative, is necessary.

(b) PLANNING ASSISTANT. Selary £420-£465 per annum (A.P.T., Grade II). Applicants should be neat and efficient draughtsmen, and preferably should have experience in a Planning Department. Any technical qualifications will be an advantage. Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Planning Officer, 2, Princes Buildings, Bath, not later than the 5th March, 1949.

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1949; City

JARED E. DIXON, Town Clerk.

Guildhall, Bath. 26th January, 1949.

MIDDLESEX COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.
Applications are invited for the following appointments:—
(a) FIVE JUNIOR PLANNING ASSISTANTS, Grade A.P.T. I, rising to A.P.T. III (£390 p.a. to £406 p.a. plus £20 to £30 London Weighting according to age). Duties include survey, draughtsmanship and general planning work. Genuine experience of Town Planning desirable, but related experience considered.
(b) THREE DRAUGHTSMEN, Grade A.P.T. I (£390 rising to £435 p.a. plus £20 to £30 London Weighting according to age). for posts in Area Planning Sections. Good Draughtsmen with experience of Ordnance Survey maps and architectural draughtsmanship.
Established, pensionable, subject to medical exam. Applications, stating age, experience, qualifications, with three recent testimonials, to the undersigned by 18th March (quoting F.377, AJ). Canvassing disqualifies. Permitted by Ministry of Labour and National Service under Control of Engagement Order.

C. W. RADCLIFFE.

C. W. RADCLIFFE,
Clerk of the Council Middlesex Guildhall, S.W.1.

QUANTITY SURVEYING ASSISTANTS.
Applications are invited for the following appointments in the County Architect's Department:

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

(1) SENIOR ASSISTANT QUANTITY SURVEYOR. Grade VIII (£685-£76 p.a.).

Candidates should be Members of the Royal Institute of Chartered Surveyors (Quantities Section), with pre-war experience, and must show evidence of special ability and experience as a taker-off for all types of building works undertaken by a Local Authority.

(2) ASSISTANT QUANTITY SURVEYOR.

Grade VII (£635-£710 p.a.).

Candidates should be Members of the Royal Institute of Chartered Surveyors (Quantities Section), and must be capable of undertaking all slages of the work in the preparation of specifications and bills of quantities.

(3) ASSISTANT QUANTITY SURVEYOR.

Grade IV (£480-£55 p.a.).

Preference will be given to candidates who have passed the Intermediate R.I.C.S. examination, and must be experienced workers-up.

The appointments will be subject to termination by one month's notice in writing on either side, and also to the provisions of the Local Government Superannuation Act, 1937. The mecessful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, and particulars of present and previous appointments, and accompanied by the names and addresses of three referees, to be sent to the County Architect, County Offices, Walton Street, Aylesbury, not later than 22nd February, 1949.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEERING ASSISTANT (Grade A.P.T., VI. Salary £590 to £600 per annum.

ENIOR ENGINEERING ASSISTANT (Grade A.P.T., VI. Salary £590 to £570 per annum.

SENIOR ARCHITECTURAL ASSISTANT (Grade A.P.T., VI. Salary £590 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., VI. Salary £590 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., VI. Salary £590 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., VI. Salary £590 to £570 per annum.

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

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £520 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £480 to £525 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., IV). Salary £480 to £525 per annum.

The appropriate London weighting is paid in addition to the above salaries, and salaries in excess of the minima of the grades may be paid according to the oualifications and experience of successful candidates.

The Council have in course of preparation a large and varied programme of interesting works which it is anticipated will not be affected by the procosed reductions in capital expenditure.

The Council will be prepared to consider applications for a subsistence allowance in appropriate

cases from persons appointed should they be unable to obtain suitable housing accommodation. Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 7th March, 1949), may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Hall East Ham, E.5.

Canvassing in any form will disqualify.

H. A. EDWARDS,
Town Hall, East Ham, E.6.
February, 1949.

1756

BOROUGH OF ILFORD.

APPOINTMENT OF ARCHITECTURAL
ASSISTANT, GRADE VII.

Applications are invited for appointment as ARCHITECTURAL ASSISTANT on the permanent staff of the Borough Engineer's Department at a salary in accordance with Grade VII of the A.PT. Division of the National Scales of Salary, viz., £635-£710, plus London Weighting (£30 per annum at age 26 or over).

Applicants should be Registered Architects and Corporate Members of the Institute of British Architects, possess a thorough knowledge of Architectural Works, with practical experience in the design and development of public buildings of all types, housing schemes, etc., the preparation of specifications and be capable of supervising and controlling contracts.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination by the Medical Officer of Health. The appointment is a whole-time one (private practice being prohibited).

Applications, stating age, qualifications and particulars of past and present employment, accompanied by copies of three recent testimonials, should be received by the undersigned not later than the 5th March, 1949. Applicants should state whether to their knowledge they are related to any member of the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any senior office under the Council or to the holder of any s

K. F. B. NICHOLLS, Town Clerk.

Town Hall, Ilford, Essex. February, 1949.

Architectural Appointments Vacant

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

TWO ARCHITECTURAL ASSISTANTS required by firm of architects with offices in West End of London; applicants should be up to R.I.B.A. Intermediate standard at least. Please apply by letter, stating age, experience, and salary required. This position would possibly suit two friends desiring employment together. Rox 1295.

MR. LAWRENCE BOND requires an ASSISTANT, at least Inter. standerd, in his practice as Diocesan Surveyor and Church Architect, at 11, Elmer Street, Grantham. 1531

A RCHITECTURAL ASSISTANTS above Inter. standard required for busy N.E. London office. Box 1543.

office. Box 1543.

ARCHITECTURAL ASSISTANT required (qualified) for General Practice—Surveys, Working Drawings and Specifications. Write, stating age, previous experience and salary required, Henry C. Smart & Partners, L.B.I.B.A., 120, Moorgate, E.C.2.

PART-TIME ASSISTANCE required; applicated as the should be able to prepare working drawings and specifications from sketch plant. Write, giving details and hours available, terms, Box 1569.

JUNFOR ARCHITECTURAL ASSISTANT required urgently. Apply, stating age, qualifications, experience, salary required, etc., with testimonials, to Buttrick & Buttrick, F./A.R.I.B.A., 43, Oswald Road, Scunthorpe, Lincolnahire.

Lincolnshire.

EELY & PAGET, F./L.R.I.B.A., require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter giving usual details to 41, Cloth Fair, E.C.1.

AN expanding Middle East Oil Company urgently requires an ASSISTANT ARCHITECT in the London office, for the execution of sketch and working drawings connected with any architectural items required; should be up to senior architectural standard; A.R.I.B.A. preferable; not less than 7 years in drawing offices engaged on housing schemes, public buildings, town planning, etc.; knowledge of Middle East architectural practice, climatic difficulties, materials, is an advantage; some knowledge of reinforced concaste and specialised construction, including the "Belirock "ysytem, desirable; age 25-40; salary £500-£750 per annum, according to age and experience. Write, giving brief details or application form, and quoting LO 125, to Box "J.F.", cho J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2.

DINBURGH.—Energetic SENIOR ASSIS-burgh office. State salary and experience to Box 1617.

EXPERIENCED ASSISTANT wanted urgently to carry out and detail housing scheme. London. Apply Lubetkin & Skinner, 115, Mount Street, W.1.

SENIOR ARCHITECTURAL ASSISTANTS required for General Architectural Practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13.

Manchester, 13.

A PPLICATIONS are invited for ARCHITEC.
TURAL ASSISTANTS in the C.W.S. Architect's Dept., London; applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings; appointment to the permanent staff and superannuation scheme after three months' satisfactory service. Applications, stating age, qualification, experience, and salary required, to W. J. Reed, FR.I.B.A., C.W.S., Ltd., Architect's Dept., 99, Leman Street, London, E.1. 1679

T. P. BENNETT & SON have vacancy for qualified ARCHITECTURAL ASSISTANT: aslary according to experience. Write, giving full details, to 43, Bloomsbury Square, W.C.1.

CHARTERED QUANTITY SURVEYOR required; salary £700 to £800 per annum.

Apply Lucas, Roberts & Brown, Architects and Surveyors, Barnfield Hill, Exeter. 1693

2500 per annum; ARCHITECTURAL ASSISTANT required immediately. Apply Box 1698, or Victoria 0603.

SMITH & WILSON, Chartered Architects, 103, Bute Street, Cardiff, have vacancy for CHIEF ASSISTANT; good wages, prospects. 1699

MARTIN, MARTIN & W. H. WARD, 106, Colmore Row, Birmingham, 3.—ARCHITBC. TURAL ASSISTANT, experienced, required by above. Write, stating age, experience, and quali-

A SSISTANT required in Architect's office of large business concern in City; age 30-35; applicants must be neat draughtsmen, with good knowledge of construction; capable of preparing accurate surveys, also working and detail drawings. Write, stating age, experience, and salary required, Box 1704.

A RCHITECTURAL ASSISTANTS required (Junior and Senior) in private office in Worcester City; salary £300 to £600, according to qualifications and experience; 5-day week. Apply in writing to 15, The Tything, Worcester.

NORMAN & DAWBARN require ARCHITEC-perience of preparing working drawings; age around 35; salary up to £750. Also a younger ASSISTANT, with good office experience; salary up to £600. Write only to 5, Gower Street, W.C.1.

A RCHITECTURAL ASSISTANT required; aslary £500.£600, according to experience. Write, giving details, to Elie Mayorcas, F.R.I.B.A., 15, Robert Adam Street, W.1. 1713

EXPERIENCED QUALIFIED ASSISTANTS required; capable of managing large works; also JUNIOR ASSISTANTS (Intermediate standard); pleasant working conditions, interesting work, and good prospects. Write, giving full particulars, J. W. Beaumont & Sons. Chartered Architects, 13, Collegiate Crescent, Sheffield, 10, 1715

SENIOR ARCHITECTURAL ASSISTANT, with industrial and engineering experience, required in connection with long-term Planning and Reconstruction of Industrial Premises in the South. Write in first instance for form of application to Box 1719.

DONCASTER CO-OPERATIVE SOCIETY,
Department, Doncaster Co-operative Society,
Ltd.; must be Registered Architect, and preferably a Member of the Royal Institute of British
Architects. Applications, stating age, qualifications, experience, and salary required, together
with two names and addresses from whom references can be obtained, to be forwared to the
Secretary and Executive Officer, Doncaster Cooperative Society, Ltd., 1, John Street, Doncaster, not later than 2nd March, 1949.

A LARGE Canadian Organization requires the services of a few ARCHITECTS for employment in Canada. The scope of our work consists of the design and execution of low cost housing developments in all parts of Canada, including land sub-division with all necessary amenities, housing design and construction. Successful applicants will be offered guaranteed employment for one year, and at the end of this period an indefinite extension of employment may be granted, with admission to our generous pension plan. The costs of transportation to Canada are to be paid by the applicant. We invite applications from those who are either Associates of the Royal Institute of British Architects or graduates of a recognized school of architecture. A teasonable amount of experience in architectural practice is required, and preference will be given for experience unit the design and construction of housing. Replies should be addressed to Box 1760, stating age, marital status, salary required, and the probable date of availability. Full particulars are required concerning education, experience, present and previous appointments, and salary received.

QUALIFIED and experienced ARCHITECT required for London office of old-established Birmingham firm; must be experienced in design and supervision of commercial buildings, and capable of working on own initiative; permanent position, with opportunity for advancement. Write, stating age, experience, and salary required, to Box 1737.

A RCHITECTURAL ASSISTANT, R.I.B.A. Intermediate standard, required for general practice. Details of \*\*age\*, experience. and salary to W. David Hartley, F.R.I.B.A., 14, Mackenzie Street, Slough. Telephone: Slough 20926. 1735 A RCHITECTURAL

ARCHITECT is required by Lever Brothers & Unilever, Ltd., for service at its London headquarters; applicants should preferably be not more than 35 years of age, and membership of the R.I.B.A. would be an advantage; he should have good all-round experience of factory work. including drainage, layout and general design; the position offers scope for a resourceful, adaptable man. Apply, in the first instance, stating age, experience, and salary required, to Lever Brothers & Unilever, Ltd., Personnel Department (FMD), Unilever House, Blackfriars, London, E.C.4.

EXPERIENCED ARCHITECTURAL ASSISTANTS required in London; to be responsible for design and detailing of Buildings associated with large expansion programmes. Apply, giving particulars of experience and quali-Apply, giving particular fications, to Box 1734.

A RCHITECTURAL ASSISTANT required by large manufacturing company in the West End with works throughout Britain. Applicants must be A.R.I.B.A., age 25-35, and experienced in the preparation of surveys, sketch plans, working drawings, in connection with industrial buildings. Also able to supervise work in progress and prepare reports in regard to same. Apply in writing stating age, full particulars of experience and salary required, to Box S 7685, A.K. Advg., 212A. Shaftesbury Avenue, W.C.2.

RCHITECT'S ASSISTANT, inter R.I.B.A. standard, required in well-known Architect's se; surveys, working drawings, etc. Commencallary, 4-5 guineas per week, according tilty. Apply with three recent testimonials. office; suring salar ability. Box 1762.

A VACANCY occurs in the near future in an expanding Architect's and Surveyor's office in East London suburbs, 12 miles from London, for a good DRAUGHTSMAN, with previous office experience. Please state age, experience, and salary required, to Box 1759.

### Architectural Appointments Wanted

EXPERIENCED ASSISTANT, 15 years (34), desires responsible position with London practice; energetic, progressive and competent; immediately available. Box 244.

CHARTERED ARCHITECT requires responsible appointment; wide experience in England and overseas. Room 32, 4, Inverness Terrace, W.2.

Terrace, W.2.

REGISTERED ARCHITECT (35) seeks position in Nottingham because of accommodation difficulties elsewhere. Experienced in Licensed House design and maintenance, and office supervision. Box 247.

ARCHITECTURAL and QUANTITY SURVEYING ASSISTANTS, approximately eight years' experience in Scotland, intermediate standard, holding responsible positions, seek nosition in Professional Office or Contractor's business, England or Wales. Box 246.

Other Appointments Vacant

\* Horse or under 5s.: each additional line, U. 5d.

WANTED.—ASSISTANT to Divisional Engineers (Sales) to represent large firm of Reinforced Concrete Engineers in the Birmingham area. Write, giving full details of experience, to Box A.J.203, at 191, Gresham House, E.C.2.

A RCHITECTURAL DRAUGHTSMEN (TWO) require part-time work evenings and weekends; Survey, Sketch Plans, Finished Drawings, Tracings, etc.; London and Home Counties; fee by arrangement. Write Box 1628.

A RCHITECTURAL METALWORK REPRE-SENTATIVE required, with a connection amongst Architects and Architectural experience. Apply by letter in first instance to Morris-Singer Company, Ferry Lane Works, Forest Road, Walthamstow, E.17, stating age, experience, and salary required.

QUANTITY SURVEYOR requires experienced office, permanency, with possibility of partnership for the right man. Full particulars to Box

R EPRESENTATIVE required by Manufacturers of Electric Light Fittings and Architectural Metalwork, calling on architects, Ministries, County Councils, etc., willing to take additional line. New Light Fittings, Ltd., 20, Tottenham Mews, London, W.I. Museum. 9200.

Petroleum Organization in North-West; must have thorough knowledge of building construction and be capable of preparing detailed working drawings and specifications from sketch designs for large commercial and industrial buildings; knowledge estimating and preparing bills of quantities an advantage; salary according to age and experience; pension benefits; good canteen facilities. Write, stating age, qualifications, full details of experience and when available, to Box P.E.655, Deacon's Advertising, 3%, Leadenhall Street, London, E.C.3.

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Services Offered
4 lines or under. 3s. 6d.; each additional line, 1s.

RAUGHTSMANSHIP, Designing and Artistry for all trades and professions; moderate terms. Write "New" Services, 28, Heath Street, Birmingham, 18.

RCHITECTURAL Perspectives set up and executed in line, black-and-white, or colour. Apply Box 1558.

QUALIFIED ARCHITECT requires part-time work, surveys (including W.D.), specifications, drawings, etc. Box 1692.

SPECIFICATIONS, Bills of Quantities, etc., expertly typed and duplicated by young lady in spare time. Telephone Wimbledon 6820 after 7 p.m.

For Sale

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

POR DISPOSAL.—"Architectural Review,"
1936 June number, 1937, 11 numbers; 1938,
11 numbers; 1939, 3 numbers. Bazley, 35, Richmond Court, 200, Sloane Street, S.W.1. 1661

DRAWING INSTRUMENTS.—Negretti & Zambra; best make; eleven items, non-rust; all needle points; fitted tray; mahogany box; various scales. Box 1751.

Miscellaneous

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

J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard sail, factory partitions and gates. Harvest Works, 99.107. St. Pauls Road, N.I. Canonbury 2061.

WANTED.—Set A.J. Working Details; also "Architectural Review," any 1936-46.
Hewitt, 103a, Hinckley Road, Leicester. 1782

talogue Send for this new ETROVICK AND COSMOS LAMPS METROPOLITAN-VICKERS ELECTRICAL CO. LONDON, W.C.2. NUMBER ONE KINGSWAY

PRAWINGS and Plans mounted and framed by experts; collected and delivered London. The Rowley Gailery, Ltd., 87, Campden Street, Kensington Church Street, W.S. Park 4349, 1343

PLUMBING WORK IN DEVELOPMENT AREAS.—Cooper Plumbing Company, Leengate, Lenton, Nottingham, will carry out Plumbing, Heating and Sanitary work on a considerable scale in any development area; estimates based on quantities (or plans and specifications for inclusion as prime cost sum) promptly prepared. Telephone: Nottingham 73670. 1421

A UTHORS invited forward MSS. all types for book publication, especially Stories for Girls, and Poems. Stockwell, Ltd., Publishers, Elms Court, Ilfracombe. (Estd. 50 years.) 1733

RCHITECTS have excellent accommedation

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Elms Court, Ilfracombe. (Estd. 50 years.) 1733

A RCHITECTS have excellent accommodation available, with 'phones, switchboard, etc., off Strand; would consider limited partnership, staff sharing, or amalgamation for specific jobs. Might suit Quantity Surveyors, Engineers, and allied professions. Box 1728.

### **Educational Announcements**

4 lines or under, 5s.; each additional line, 1s. 6d. THE CHADWICK TRUST. TRAVELLING SCHOLARSHIP

THE CHADWICK TRUST.
TRAVELLING SCHOLARSHIP

In

SANITARY SCIENCE OR MUNICIPAL
ENGINEERING AND HYGIENE.
THE CHADWICK TRUSTEES invite APPLICATIONS for a TRAVELLING SCHOLARSHIP
of £500 a year, tenable for one year, to be awarded next JULY; the Scholarship to be in SANITARY
SCIENCE or MUNICIPAL ENGINEERING and
HYGIENE.
The Trustees may approve a course of study shorter than for one year, in which case the value of the Scholarship would be reduced, approximately, pro rata.
The object of the Scholarship is to enable the holder to travel abroad to study, either generally or in some particular aspect, the methods adopted in different countries for the prevention of disease and the improvement of public health, or the sanitary administration and engineering applied in urban or rural areas.
Candidates must be British subjects of either sex, between 22 and 30 years of age, who have graduated in a British University or can produce evidence of attainments or of intellectual equipment proving them to be capable of methodical study and research.
Application forms and conditions of the award may be obtained from The Clerk of the Chadwick Trustees, 204, Abbey House, Westminster, S.W.1 (stamped addressed Golscap envelope necessary), to whom the form must be returned by 31st March, 1949.

LONDON COUNTY COUNCIL.

to whom the form must be returned by 31st March.

1709

LONDON COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE
OFFICE OF DISTRICT SURVEYOR.

Formal notice is hereby given that the next examination of persons desirous of obtaining a certificate of proficiency to perform the duties of the office of District Surveyor will be conducted in London in October, 1949, by the Board established by the London County Council, in accordance with Section 77 of the London Building Acts (Amendments) Act, 1939. The minimum age limit for candidates is 25.

Possession of this certificate carries eligibility to compete for appointment to vacant positions as District Surveyor, at maximum salaries ranging from £1,200 to £1,800 a year (inclusive), or as Assistant District Surveyor (salary scale £840 by £46 to £960 a year).

It is intended to hold subsequent examinations annually.

For regulations governing candidature, the

It is intenued to allow annually.

For regulations governing candidature, the revised syllabus, and application forms for the examination, or for any further information, apply to the Architect to the Council, County Hall, Westminster Bridge, S.E.1 (2211).

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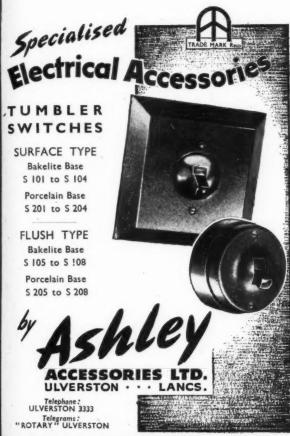


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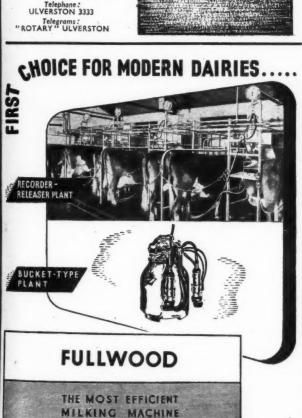
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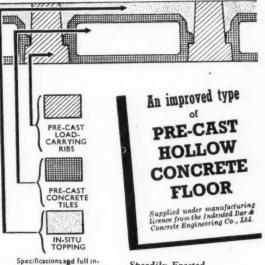




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