

# THE ARCHITECTS' JOURNAL



## standard contents

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

## DIARY NEWS

from AN ARCHITECT'S Commonplace Book

## ASTRAGAL

## LETTERS

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## CURRENT BUILDINGS

## INFORMATION

## CENTRE

Physical Planning      Lighting  
Structure      Heating & Ventilation  
Materials      Questions & Answers  
Acoustics & Sound Insulation

## INFORMATION SHEET

## SOCIETIES & INSTITUTIONS

## PRICES

Architectural Appointments  
Wanted and Vacant

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THE ARCHITECTURAL PRESS  
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Vigilant 0087-9.

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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, is given below. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association. 34/6, Bedford Square, W.C.1.	Museum 0974
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 9, Belgrave Square, S.W.1.	Sloane 0421
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ARCUK	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
BC	Building Centre. 23, Maddox Street, W.1.	Mayfair 2128
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
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	British Steelwork Association. Egginton House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CSI	Chartered Surveyors' Institution. 12, Great George Street, S.W.1.	Whitehall 5322
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. Dolphin Square, S.W.1.	Victoria 4477
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FMB	Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1.	Canonbury 2041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 4, Hobart Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3767
MARS	Modern Architectural Research. 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 7070
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives. 9, Rugby Chambers, Rugby Street, W.C.1.	Holborn 2770
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 91, Petty France, S.W.1.	Whitehall 9936
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Society of Industrial Artists. 20, Wellfield Avenue, N.10.	Tudor 7027
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6147
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815

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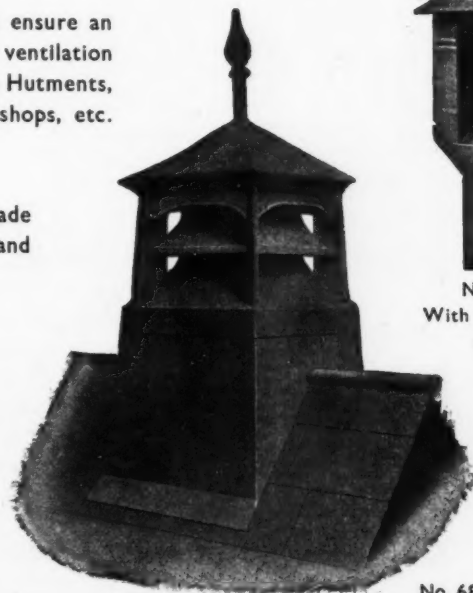
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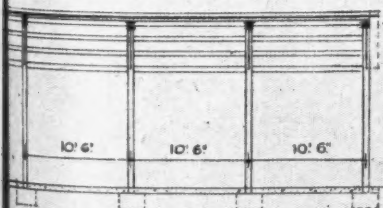
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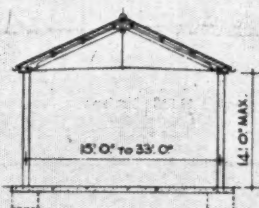
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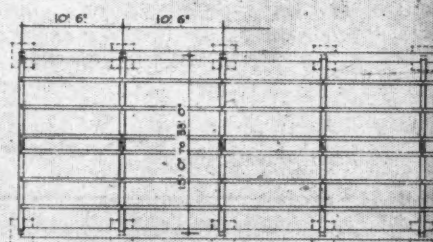
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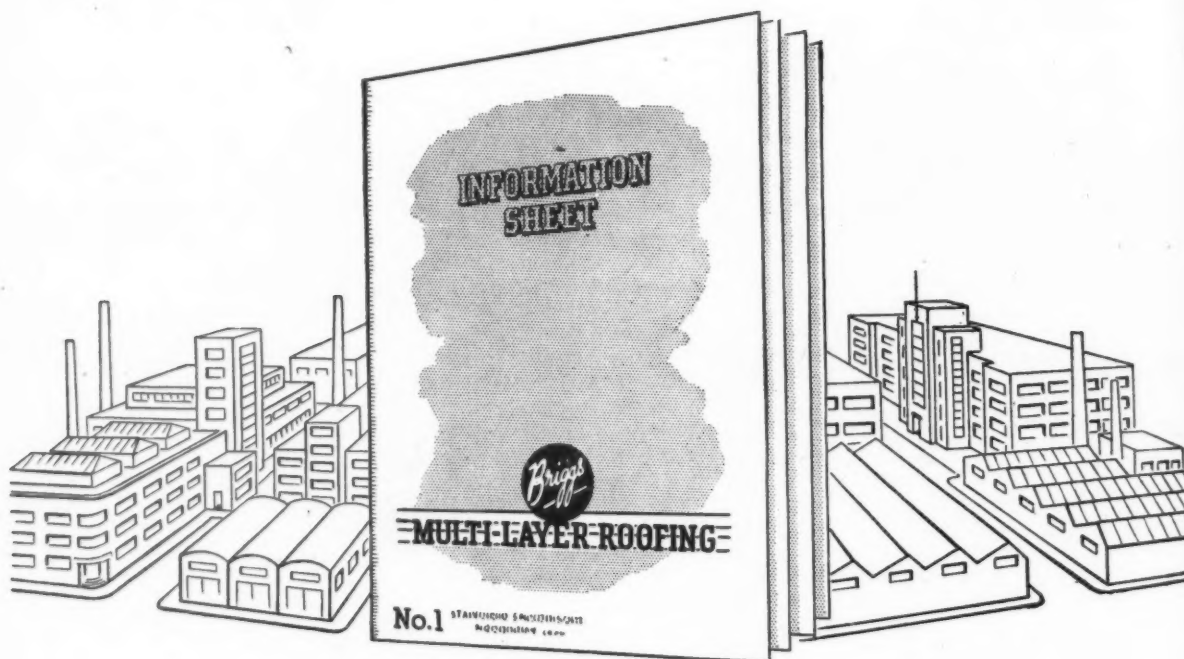
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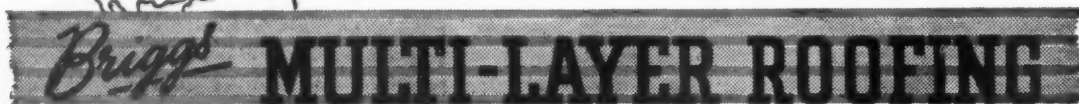
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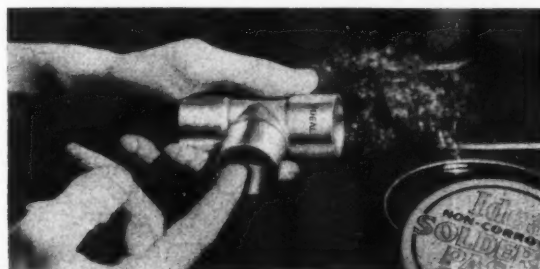
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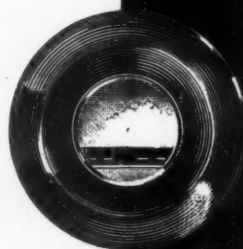
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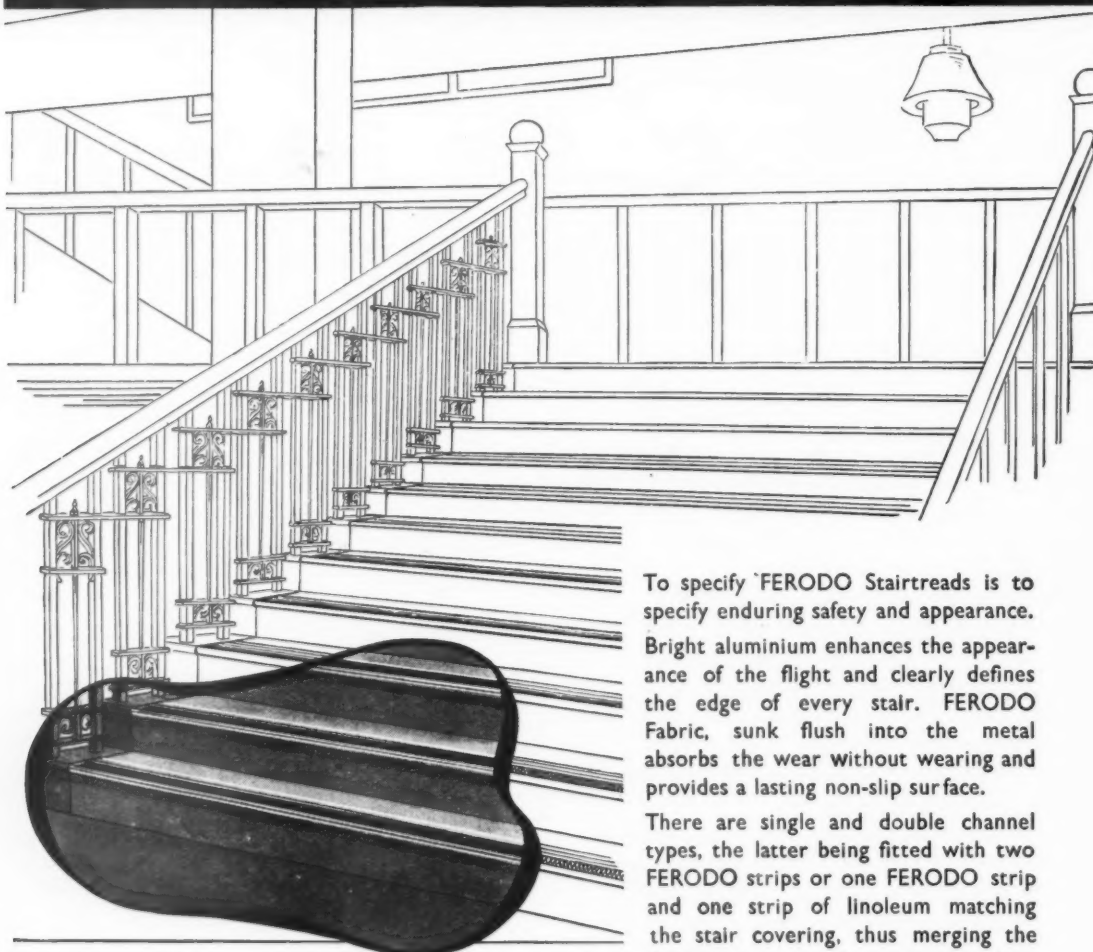


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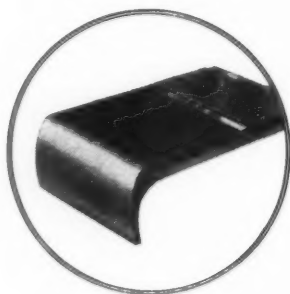
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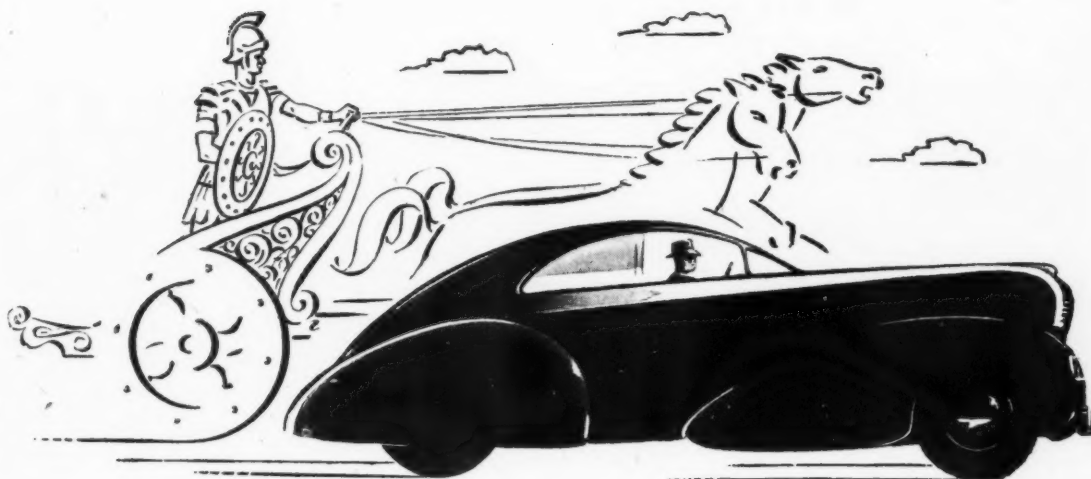
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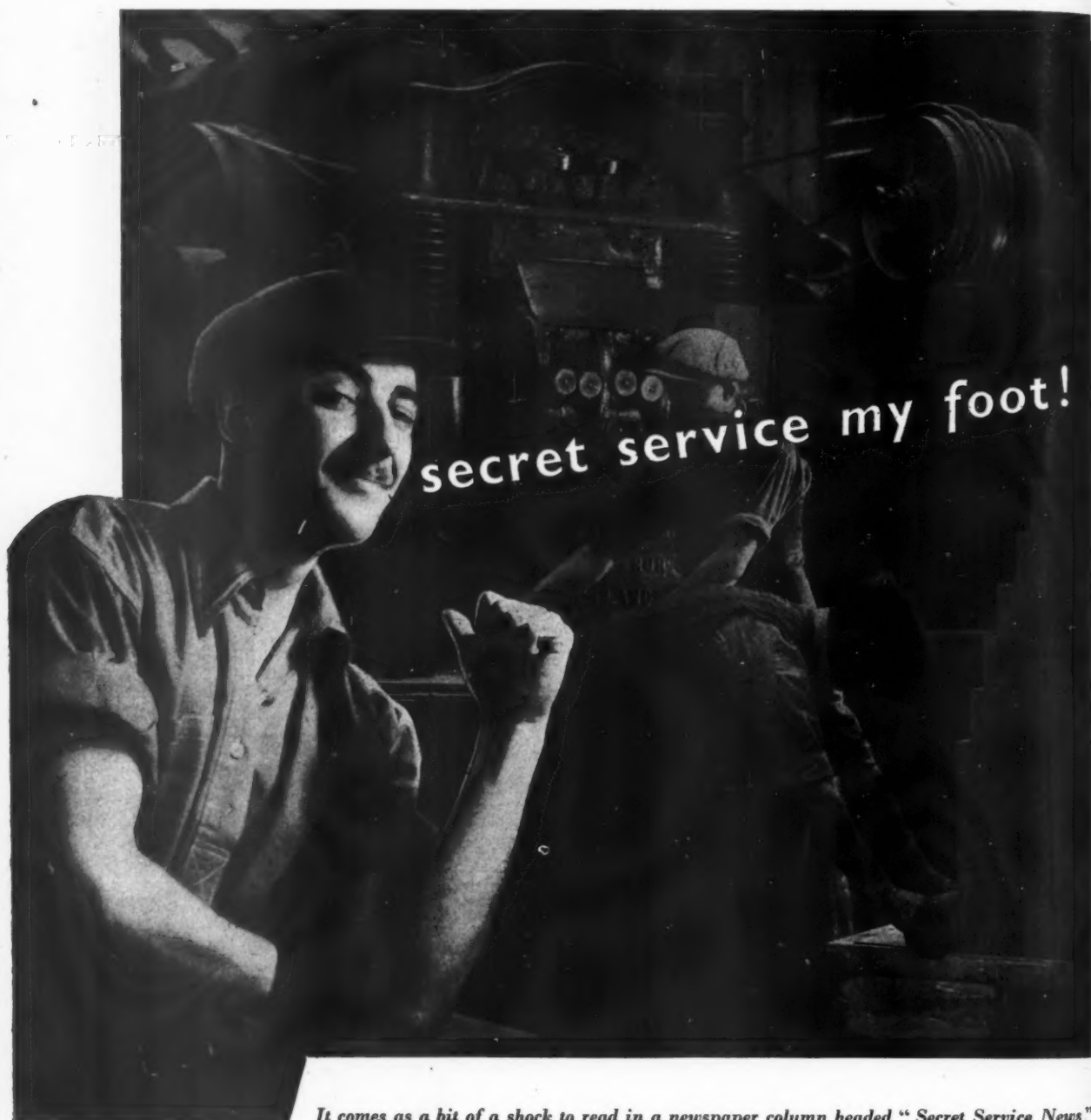


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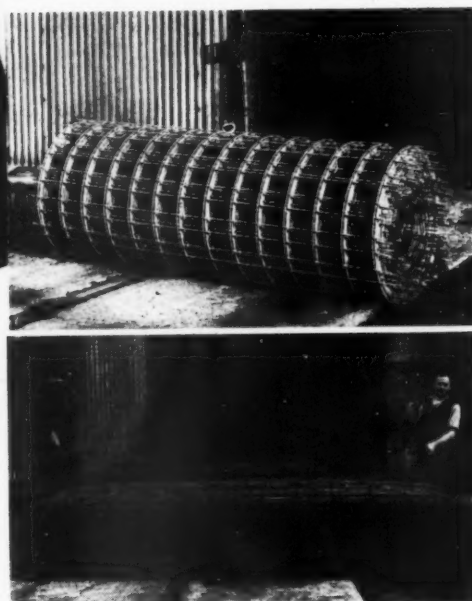


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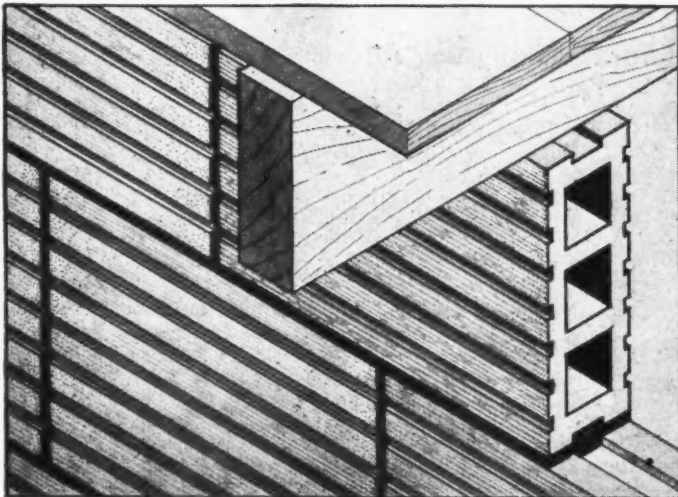
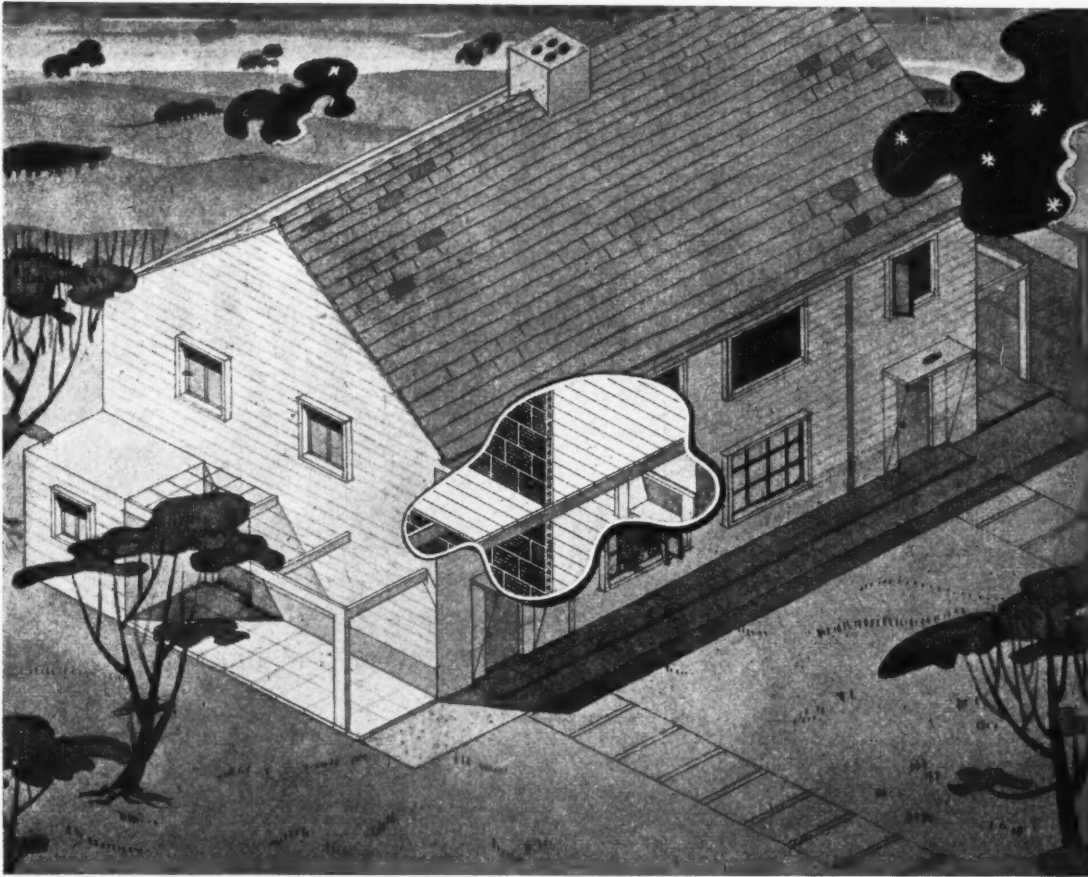
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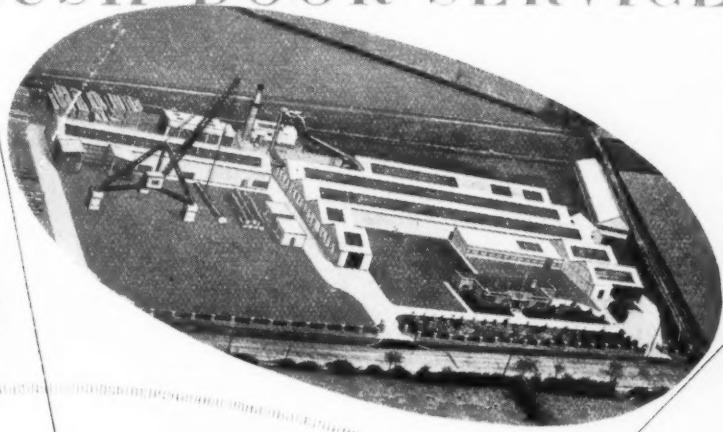
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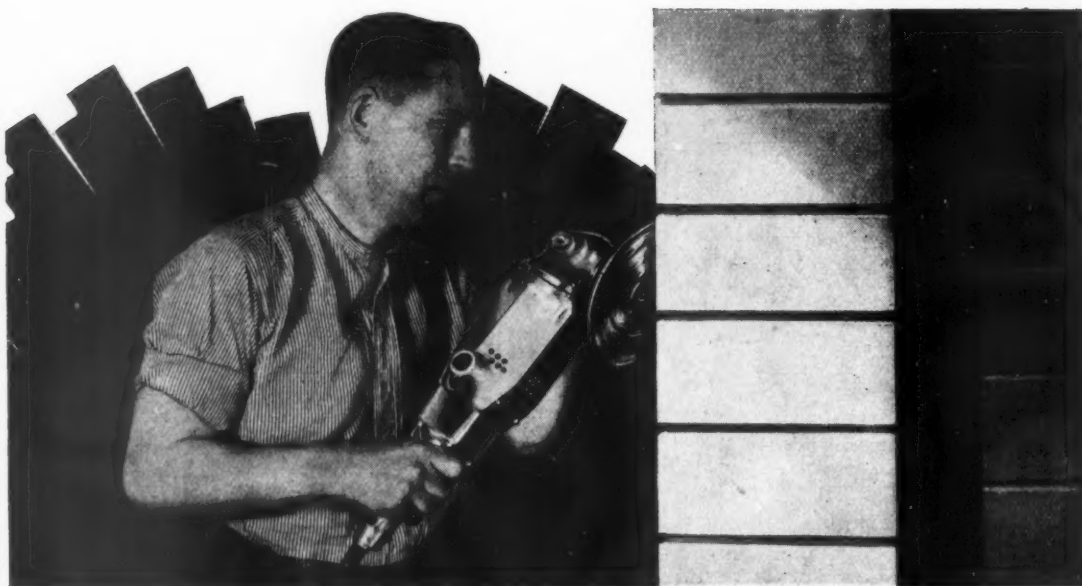
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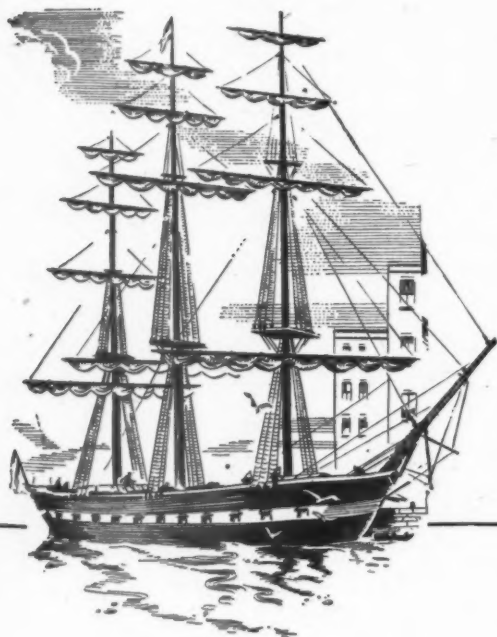






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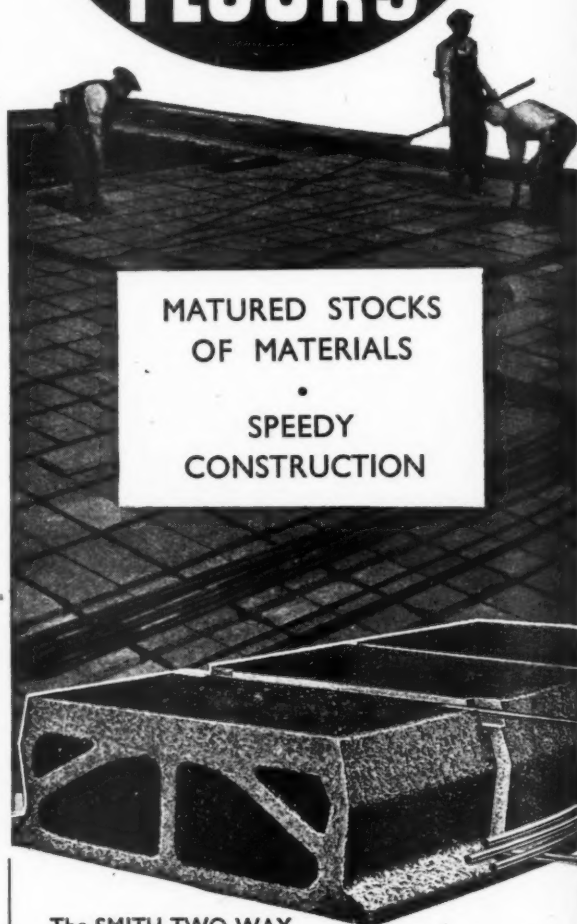
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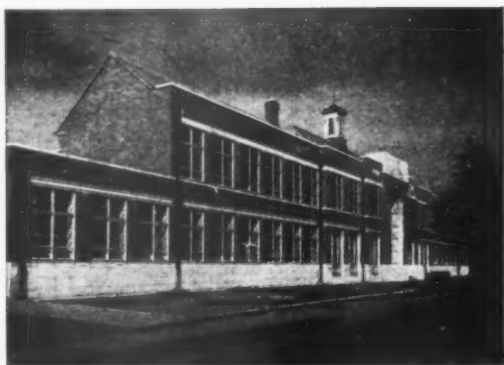
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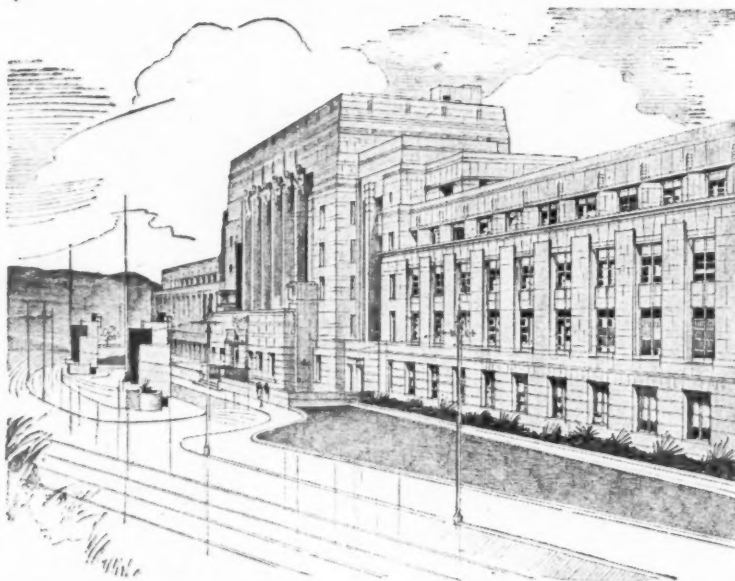
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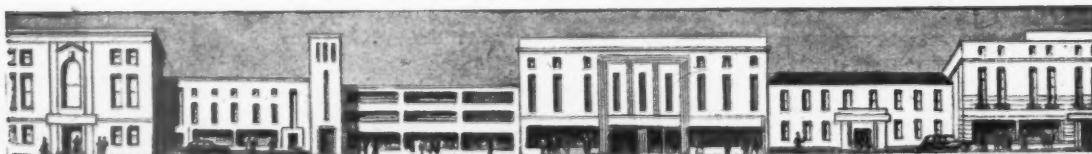
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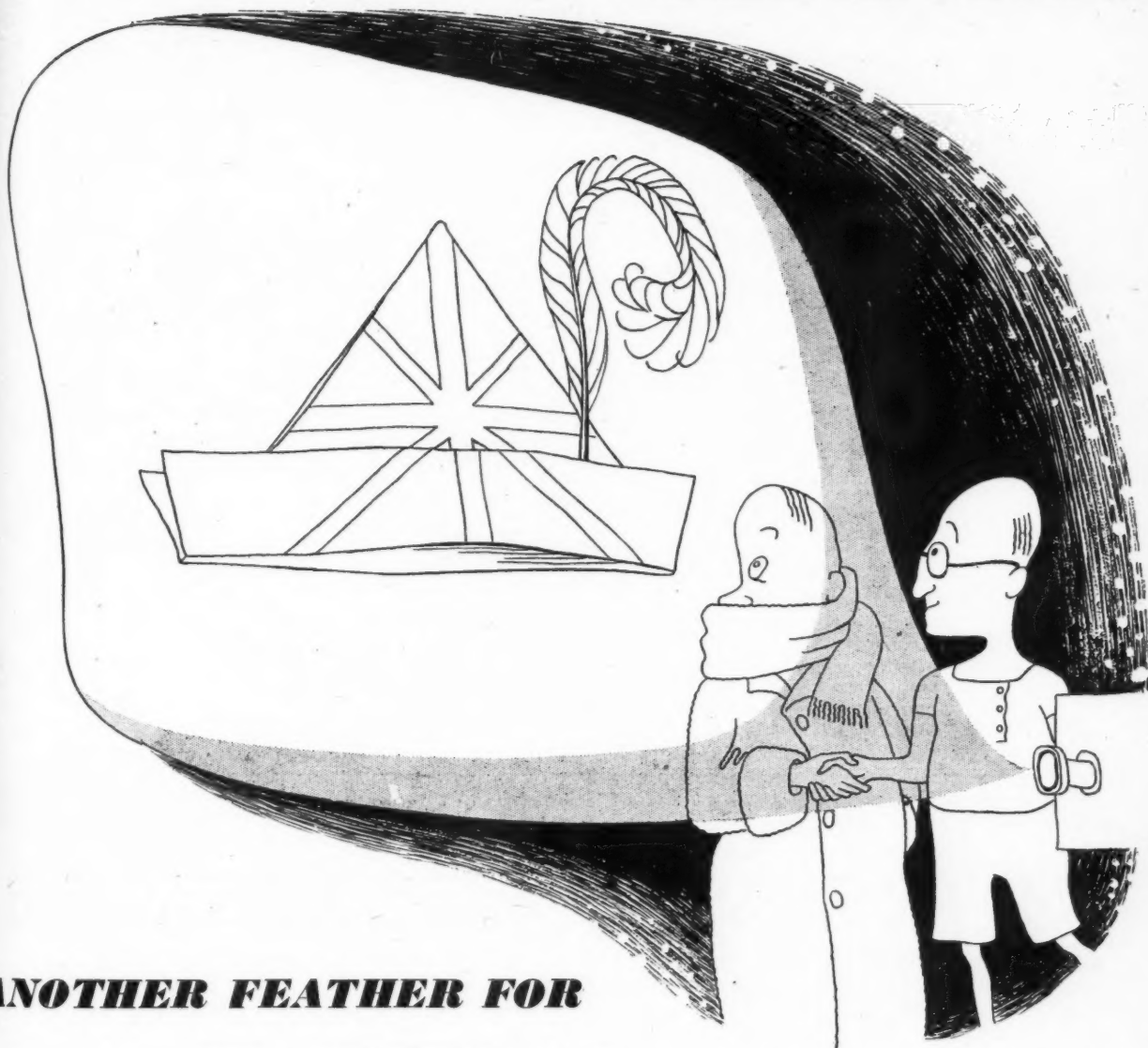
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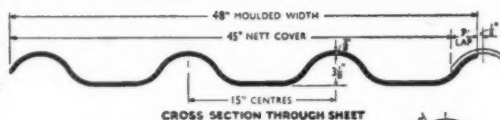
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- The weight of 100 sq. ft. as laid for roofing with fixing accessories is approximately 455 lbs., or 41 lbs. per sq. yd.

### FIXING

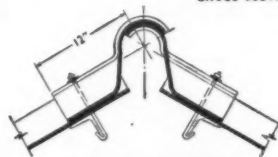
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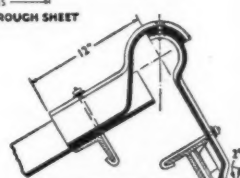
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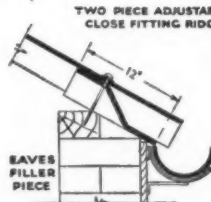
CROSS SECTION THROUGH SHEET



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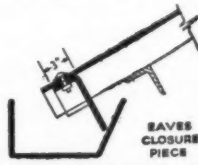
TWO PIECE ADJUSTABLE  
NORTH LIGHT RIDGE



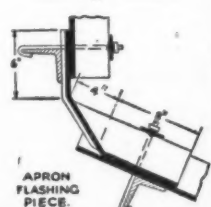
EAVES  
FILLER  
PIECE



BARGE  
BOARD



EAVES  
CLOSURE  
PIECE



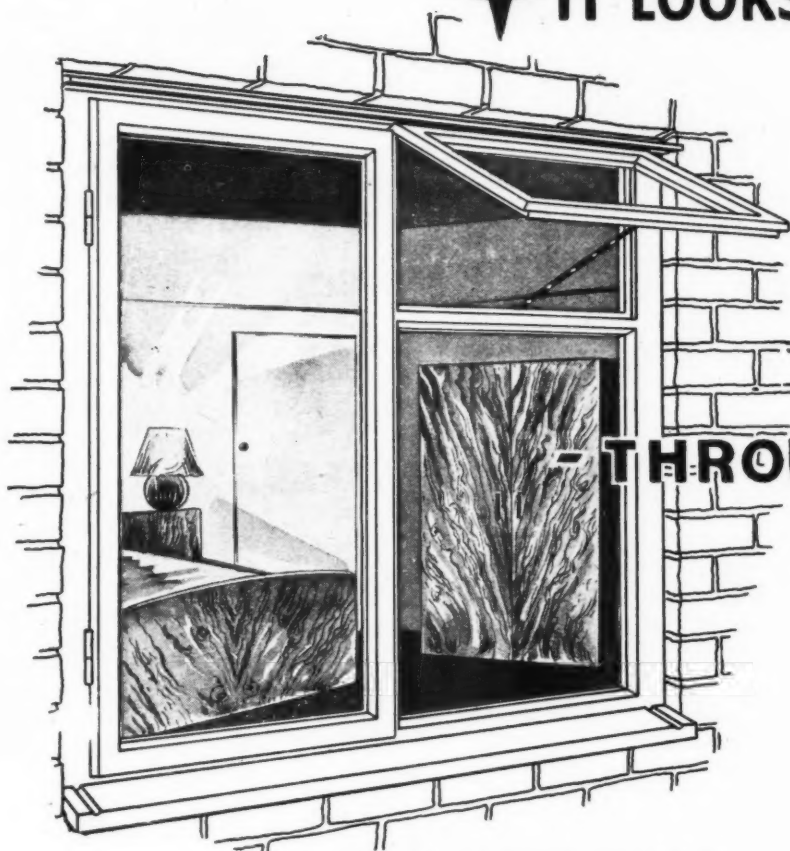
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9' 6"	4.222	149.96	2	7' 9"	15	56' 6"
9' 0"	4.000	142.08	3	11' 6"	16	60' 3"
8' 6"	3.778	134.19	4	15' 3"	17	64' 0"
8' 0"	3.556	126.30	5	19' 0"	18	67' 9"
7' 6"	3.333	118.40	6	22' 9"	19	71' 6"
7' 0"	3.111	110.51	7	26' 6"	20	75' 3"
6' 6"	2.889	102.62	8	30' 3"	21	79' 0"
6' 0"	2.667	94.72	9	34' 0"	22	82' 9"
5' 6"	2.444	86.83	10	37' 9"	23	86' 6"
5' 0"	2.222	78.94	11	41' 6"	24	90' 3"
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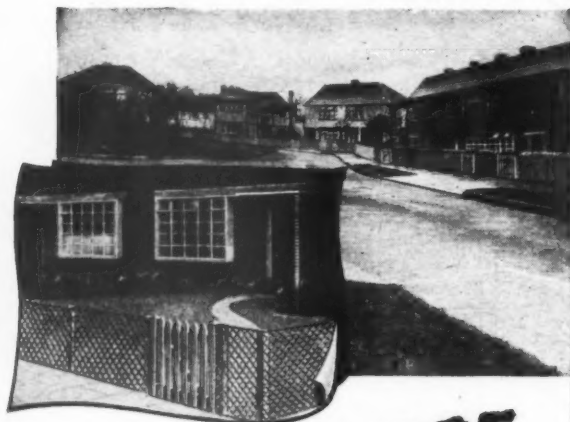
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BENHAM

## "Benham's at War"

**T**HE above is the title of a book issued for private circulation concerning activities of the Company during the recent War. Some excerpts have already been published in the technical press; the following is a very brief résumé which may be of interest to architects:—

Under the late Sir Isidore Salmon, M.P., running contracts for War Office equipment and cookhouses for the new Sandhurst block were obtained, first contracts being in January, 1939. Early that year, installation of kitchen equipment extended to the Air Ministry for whom, in all, the Company fitted up wholly or largely 131 Stations, each containing up to 14 separate kitchens. In June, 1940, the firm was brought into the Royal Ordnance Factory extension scheme and was put in charge of modernisation of numerous canteens, and the fitting up of a vast number of new ones. For Messrs. Vickers-Armstrongs, 24 canteen kitchens were fitted up and several for Messrs. Thornycroft and American aircraft assembly plants. There were also large contracts in connection with British Restaurants. In January, 1943, the Ministry of Supply took over the equipment of existing canteens and for new installations in Admiralty shipyards, factories and Fleet Air Arm stations, which involved an enormous amount of work. The Company's apparatus, during the eventful years, has been installed in Iceland, Ireland, the Orkneys and the Hebrides, Malta, Gibraltar, Egypt, Singapore, Australia, New Zealand, South Africa, Iran, Iraq and Turkey. Large contracts were also undertaken in connection with heating and ventilation, dish-washing machines, "Electro-Vapour" radiators and "Neverstane" sinks, also installation of F.I.D.O.★★★ With munitions the Company made Holdfasts for coast defence guns, gun shields, 3-in. single U.P. rocket projectors, 29mm. Spigot mortars, gun firing gear and train-wheel assemblies, 20mm. Universal mountings and others for various machine guns, besides saddles for 17-pounder gun carriages. The above description is brief in the extreme, but gives some indication of the firm's "Stewardship" from January, 1939 onwards.

A woman welder working on fabricated 20mm. Hispano gun mounting. The parts to be welded together are located in a jig. This is one of many complicated fabricated jobs undertaken in large quantities in connection with munition manufacture.

The following are totals of some of the items manufactured by the Company, covering five years of hostilities:

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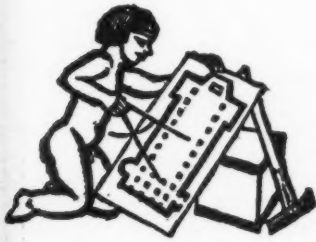
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In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee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

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## DIARY FOR JUNE JULY AND AUGUST

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

**BLACKPOOL.** *Health Congress.* To be opened by Lord Woolton. Sections of the Congress include *Engineering and Architecture*, presided over by Sir Reginald Stradling, and *Housing and Town Planning*, presided over by Norman H. Walls. (Sponsor, RSL.) JUNE 6-7

**LONDON.** *Paintings by Mervyn Peake, Drawings by Sigmund Pollitzer and Small Paintings by Lyons Wilson.* Exhibition at Redfern Gallery, 20, Cork Street, Burlington Gardens, W.1. (Sponsor, Redfern Gallery.) JUNE 6-8

*Living Communities.* Exhibition in Room 129, London County Hall, daily, 10 a.m. to 5 p.m. Thursdays, 10 a.m. to 9 p.m. (Sponsor, London Council of Social Service.) JUNE 6-15

*Plan for Knutsford.* Exhibition. At the RIBA, 66, Portland Place, W.1. Sir Percy Thomas, President, RIBA, will open the exhibition, which is being arranged by the *News Chronicle*. Admission free. Daily from 10 a.m. to 6 p.m. until July 5, Sundays and June 8 to 10 excepted. (Sponsor, *News Chronicle*.) JUNE 6-JULY 5

*Work of the students of the Regent Street Polytechnic School of Architecture.* At the RIBA, 66, Portland Place, W.1. JUNE 6-15

*Paintings by Donald Wood.* Exhibition at the Batsford Gallery, 15, North Audley Street, W.1. 10 a.m. to 5.30 p.m. JUNE 6-19

*Chemical Research Exhibition.* At the Tea Centre, Lower Regent Street, S.W.1. (Sponsor, Imperial Chemical Industries.) JUNE 6-28

**W. A. Thorpe.** *The Idea of Furniture.* At the International Arts Centre, 3, Orme Square, Bayswater Road, W.2. (Sponsor, IAC.) 8 p.m. JUNE 11

**London Master Builders' Association.** *Central Area No. 1.* Meeting at Derry & Toms Restaurant, Kensington High Street, W.8. Chairman, C. E. B. Head. Guest of honour, Sir Harold Webbe, C.B.E., M.P. (Sponsor, LMBA Central Area No. 1.) 2.30 p.m. JUNE 12

*Building Materials and Components.* Exhibition at the Princes Gallery, Piccadilly, W. (Sponsor, Ministry of Works and the Ministry of Health in consultation with the other Government Departments concerned.) Monday to Friday, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 1 p.m. JUNE 12 for about 6 weeks.

*Commons, Open Spaces and Footpaths Preservation Society.* Annual General Meeting at 71, Eccleston Square, Belgrave Road, S.W.1. To receive the Statement of Accounts and Report for 1945 and to elect the officers and General Committee. All members invited to attend. 3 p.m. (Sponsor, COSFPS.) JUNE 19

*Town and Country Planning Association.* *River Trip to View the Proposed Development in the Areas under the County of London Plan.* By Marchioness from Westminster Pier. Times and full details from the Conference Secretary, 28, King Street, Covent Garden, W.C.2. Officials familiar with the many aspects of the Thames Development will be present. (Sponsor, TCPA.) JUNE 22

*Presentation of Howard Memorial Medal to Professor Lewis Mumford.* At a luncheon at the Connaught Rooms, Great Queen Street, W.C.1. (Sponsor, TCPA.) Luncheon 17s. 6d. 12.30 p.m. for 1 p.m. JUNE 27

*Public Drinking Fountain Competition.* Assessors, Oswald P. Milne, Keith Murray and Surgeon Vice-Admiral Sir Reginald Bond. Premiums, £50 and £25 respectively. In addition to the premium a fee of £3 3s. will be paid for each fountain completed from the author's design. Particulars from Royal Society of Arts, 6-8, John Adam Street, Adelphi, W.C.2. Closing date JULY 31

**MANCHESTER.** *Art on the March.* An exhibition of drawings and paintings by students of the Manchester Municipal School of Art while serving in H.M. Forces, 1939-1945. At the Manchester Municipal School of Art, Cavendish Street, All Saints, Manchester, 15. (Sponsor, Manchester Municipal School of Art.) JUNE 6-22

**PARIS.** *International Technical Congress.* Among the delegates from Great Britain will be Sir Patrick Abercrombie, President, International Reunion of Architects, and Sir Percy Thomas, P.R.I.B.A. SEPT. 16-21

**SUDBURY.** *Conference and Exhibition on the Sudbury and District Planning Association's Survey and Plan.* At the Town Hall, Sudbury, Suffolk. Speakers: L. F. Easterbrook, R. L. Reiss, Chair- man: Donald McCullough. (Sponsor, TCPA.) JUNE 28

## NEWS

THURSDAY,  
No. 2680

June 6, 1946  
VOL. 103

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

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

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

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

**Mr. Basil Spence A.R.I.B.A., F.R.I.A.S., came straight from the Army to take up his appointment as ARCHITECT OF THE BRITAIN CAN MAKE IT Exhibition opening at the Victoria and Albert Museum in September.**

As Chief Architect of the Exhibition he works in close harmony with Mr. James Gardner, the Chief Designer. Mr. Spence as a Captain used many special camouflage devices designed by Mr. Gardner on the Normandy beaches. Mr. Spence was born in India in 1907, and educated at George Watson's College, Edinburgh. He is a graduate of Edinburgh School of Architecture, where he won many student awards, including the Incorporation Prize, 1928, the Rowand Anderson Silver Medal, the Royal Institute of British Architects Silver Medal, the Pugin Silver Medal, 1932, and the Arthur Coates Prize for Town Planning. He was assistant architect to Sir Edwin Lutyens for New Delhi, and helped to design the gardens of the Viceroy's House, and the Palaces for Indian Princes. He is a partner in the Edinburgh firm of Rowand Anderson and Paul and Partners. Mr. Spence served for six years with the Army, and was twice mentioned in dispatches.



# HOPE'S WINDOWS

*in the Uni-Seco  
Temporary House*

HENRY HOPE & SONS LTD., Smethwick, Birmingham  
LONDON: 17 Berners Street, W.1

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## From AN ARCHITECT'S Commonplace Book

SCALE AND WATERLOO BRIDGE. [*From Georgian Architecture, by John Summerson (Pleiades Books).*] The magnificence of Waterloo Bridge was amply acknowledged during the long and unsuccessful struggle for its preservation from 1923 onwards, and there is no need for further emphasis on its excellence. But the reasons are worth enquiry. In the first place its *scale* was enormously impressive. The scale of London architecture, and indeed of English architecture as a whole, is small; it easily descends to meanness. Hawksmore and Vanbrugh aimed at bigness of scale, but the middle and late Georgians—Chambers, Adam, Soane and Nash, designed small and even diminutive; they were always prone to subdivide and elaborate so as to give an interesting and eloquent play of shadows. Rennie's first interest was not in shadows, but in structure. The noble *larchetto* of his nine semi-elliptical arches provided in itself enough architectural excitement, especially with the hard geometric pattern of the radiating granite voussoirs. . . . The scale of Waterloo Bridge was dictated by the structure, not by the designer's handling of detail. Hence its sheer magnificence. . . . On paper the bridge does not make a great show (though the section, showing the voussoirs carried down to the springing, lets us into a secret enhancing appreciation of the design). It was the realization, with its precision, its fine materials and craftsmanship which was so magnificent. . . . The new three-arch structure is very fine, but it is instructive to note how the architectural embellishments, few and discreet as they are, have managed to rob the bridge of that impersonal grandeur of scale which the old structure possessed.

### ★ Following is a list of AA OFFICERS AND COUNCIL for the Session 1946-47.

President: Graham Dawbarn, M.A., F.R.I.B.A. (re-elected for second term of office). Vice-Presidents: R. E. Enthoven, A.A.DIPL., F.R.I.B.A., Ralph Tubbs, A.A.DIPL., A.R.I.B.A. Hon. Secretary: Eric L. Bird, M.C., A.R.I.B.A. Hon. Treasurer: Henry Braddock, A.A.DIPL., A.R.I.B.A. Hon. Editor: Hugh Casson, M.A., A.R.I.B.A. Hon. Librarian: Alfred S. Knott, A.R.I.B.A. Past President: A. F. B. Anderson, S.A.D.G., F.R.I.B.A. Ordinary Members of Council: A. R. F. Anderson, F.R.I.B.A., John R. Atkinson, A.A.DIPL., A.R.I.B.A., Anthony M. Chitty, M.A., A.A.DIPL., F.R.I.B.A., S. E. T. Cusdin, A.A.DIPL., A.R.I.B.A., F. E. B. MacManus, F.R.I.B.A., Lionel G. Pearson, F.R.I.B.A., Anthony Pott, A.A.DIPL., A.R.I.B.A., Mrs. Howard Robertson, A.A.DIPL., A.R.I.B.A., Peter F. Shephard, B.A.R.C.H., A.M.T.P.I., A.R.I.B.A., Hilton Wright, A.A.DIPL., A.R.I.B.A.

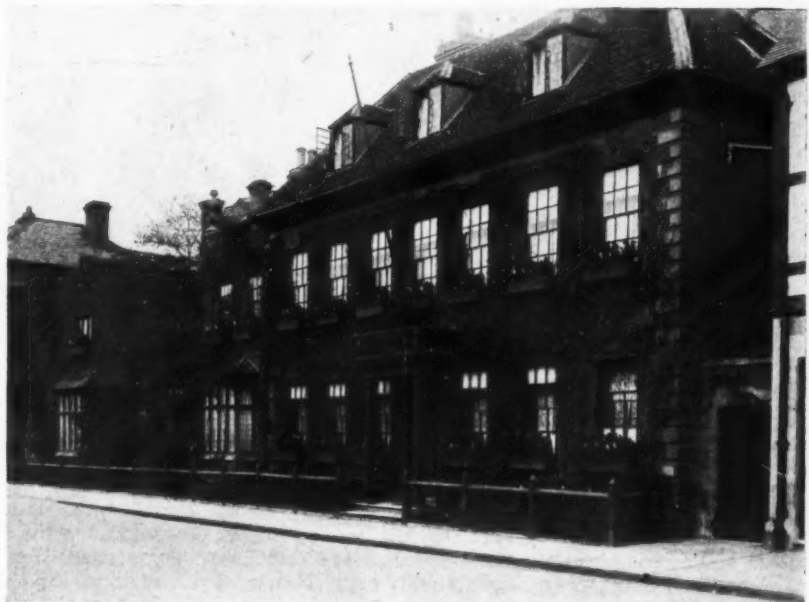
These arrangements are designed to meet the case of house-builders who have land in their possession and are prepared to make it available for the erection of houses for local authorities. The Minister will be prepared to sanction loans and approve for Exchequer subsidy proposals of either kind submitted by the local authority and approved by him. It is suggested that by either or both of these methods it may be possible to secure the early completion of houses for letting at reasonable rents by bringing into production for this purpose building organisations and labour which would otherwise not be employed on house building at all or would be employed solely

on the erection of houses for sale. The Council should consider in the light of their local knowledge and experience whether either or both of these methods could usefully be adopted in their district. Proposals for which the Council desire to obtain approval should be submitted to the Principal Housing Officer.

*The AA will be closed for the WHITSUN holiday from June 7 to 11.*

### The Minister of Health is prepared to consider proposals from local authorities for the erection of PERMANENT HOUSES BY SMALL BUILDERS.

In a circular to housing authorities the Ministry of Health states: It has been suggested to the Minister of Health by the National Federation of Building Trades Employers and the Federation of Registered House Builders that a substantial increase in the number of permanent houses provided by local authorities can be secured by bringing into action the services of private builders who are not able to undertake contracts for local authorities on the usual basis. The Minister welcomes these suggestions and is prepared to consider, subject to certain conditions, proposals from local authorities to include in their housing programme—(1) proposals for the erection of small groups of houses by house-builders approved by the local authority. These arrangements are designed to meet the case of the small builder who is experienced in house building but who has not the organisation or the technical staff to deal with the plans, specifications, bills of quantities and forms of contract incidental to a full scale housing scheme; (2) proposals for the erection of houses by private enterprise housebuilders on land owned by them.



*The late Marie Corelli's House, Mason Croft, Stratford-on-Avon, used during the war as an American Red Cross Club, has been acquired by the British Council as a centre for its services for overseas visitors to the Memorial Theatre Festival Seasons. During the war, at the request of the United States, Canadian and other Allied Forces, the British Council arranged fifty weekly leave courses, which included lectures by eminent authorities on Shakespeare and the plays. As these proved very popular and as there have been many requests from the British public to be allowed to participate, the Governors of the Theatre and the British Council set up a joint committee which has arranged a series of such lectures for the current season. Mason Croft will also be used for films, exhibitions and other cultural activities. Courses for scholars and for teachers of English from overseas may also be arranged.*





## *The New RIBA President*

Mr. L. H. Keay, F.R.I.B.A., City Architect and Director of Housing for Liverpool, is to be the new RIBA President for the Session 1946-47. Although the election has not yet taken place, his nomination to the presidency is unopposed. He is at present one of the four vice-presidents. Born at Eastbourne in 1883 and educated at Eastbourne College, he is essentially a local authority man. He served his articles in the Architectural Department of the City of Norwich and eventually became head of the Department. In Norwich he was responsible for extensions to the City Asylum and Isolation Hospital. One of his most interesting works was the restoration of the ancient Guildhall. He also carried out small housing schemes. From 1916 to 1921 he served in the Royal Engineers in France and Egypt and retired with the rank of Major to the Regular Army Reserve of Officers. On his return to England he obtained appointment as Chief Architectural Assistant to the City of Birmingham, in which office he was principally

engaged upon the great housing schemes of that City. Whilst holding this appointment, contracts were entered into for over 16,000 houses. In 1925 he was selected from a very large number of applicants to undertake similar duties for the City of Liverpool. He was subsequently appointed Director of Housing and in 1938 he became, in addition, City Architect. In Liverpool he has been responsible for the erection of over 30,000 dwellings and for the many buildings erected upon the Corporation Estates, and for those required by the various Committees. He has been responsible for the repair of war damage in the City, and in 1935 received the degree of Master of Architecture (*honoris causa*) at the University of Liverpool. A member of the Central Housing Advisory Committee of the Ministry of Health since its inception, he has served on many of its sub-committees, and in an advisory capacity to the Minister of Works. He is a member of the National Housing and Town Planning Council.

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★★★  
 Mr. Robert Hogg Matthew,  
 A.R.I.B.A., Chief Architect and  
 Town Planning Officer, Depart-  
 ment of Health for Scotland, has  
 been **APPOINTED ARCHI-  
 TECT TO THE LONDON  
 COUNTY COUNCIL** and  
 Superintending Architect of Metro-  
 politan Buildings, at a yearly  
 salary of £2,500 rising to £3,000  
 to fill the vacancy caused by  
 the resignation in December last  
 of the Council's former  
 architect, Mr. J. H. Forshaw, on  
 accepting the office of Chief  
 Architect and Housing Consultant  
 to the Ministry of Health.

★★  
 A scheme to utilize the skill and  
 experience of the small builder by  
**CUTTING DOWN THE  
 TECHNICALITIES** involved in  
 a large-scale housing contract is  
 one of two new measures proposed  
 by the Secretary of State for  
 Scotland to sift all the avail-  
 able labour for the quick  
 erection of houses to rent.

The second proposal opens up the possi-  
 bility of arranging for the use of private  
 builders' undeveloped land for local  
 authority houses. By these methods, states  
 a Department of Health circular just issued  
 to local authorities, it is hoped to bring into  
 production building organization and labour  
 which would otherwise not be employed on  
 housebuilding at all or would be employed  
 solely on the erection of houses for sale.  
 Local authorities are now enabled to place  
 contracts with small builders experienced in  
 building but without the organization or  
 the technical staff to deal with the plans,  
 specifications, schedules and forms of con-  
 tract required in a full scale housing  
 scheme. Contracts will be for from two  
 to six, or at the most up to 12 houses.  
 The intention is that the builder should  
 not undertake more houses at one time  
 than he can complete within 9 months.  
 The essence of the arrangement, states the  
 circular, will be the authority's knowledge  
 of the builder's pre-war work, and their  
 faith in his capacity to reproduce that type  
 of work adjusted to present standards, not-  
 withstanding the absence of precise docu-  
 ments. The price of the houses must not  
 be higher than the cost of houses built for  
 the local authority in the normal way. The  
 second part of the scheme caters for house-  
 builders who own land they are unable at  
 present to develop, and who are prepared  
 to make it available to the local authority  
 and erect houses on it for them. The  
 ready availability of land, organization and  
 technical information will make for speed,  
 it is considered, and will reduce the de-  
 mands on local authorities' own technical  
 staffs. Actual plans for sites and houses  
 will in most cases already exist, and can  
 be adopted where satisfactory. Houses  
 thus erected, it is stated, would become  
 part of the programme of the local  
 authority, and by using land and building  
 organizations which might not otherwise be  
 available for this purpose would secure an  
 addition to the number of houses available  
 for letting at reasonable rents.

## THE KNUTSFORD LESSON

**T**HIS week the *News Chronicle* Exhibition of the Knutsford Extension Scheme,\* the *Your Town* Exhibition, opened at the RIBA in Portland Place. It remains open until July 5, and it is an exhibition which should be seen, both as an example of a well-arranged display and as a model of the control extension of a country town.

Moreover, there are aspects of the Knutsford scheme which are of particular, and unique, importance. The first is its connection with a national newspaper. This, in one sense, is fortuitous. In 1943, the *News Chronicle*, a paper which has always been distinguished for its practical work on questions of social urgency, felt that rebuilding Britain demanded something more than kind words on the editorial page. It asked the Ministry of Town and Country Planning if there was any town faced with the need for a plan which it could help practically in preparing that plan. Knutsford was the town selected. It is an old country town in the Cheshire plain, fifteen miles from Manchester, and already threatened by submergence in the southward flood of unregulated growth. Knutsford was likely to be redeveloped anyway, whether it had a plan or not. The plan now produced with the Ministry for approval was made by planning experts and is an admirable one of its kind. The contribution from the *News Chronicle* took the form, not of guidance in preparing the plan, but in the provision of extra finance to ensure, first, that the plan was as complete as possible; in other words, that it would become a plan that could serve as a model for any town, and secondly, that there existed facilities, offices, meeting places, and above all, publicity for the plan while it was in course of preparation. If the preparation of the average scheme is like a railway journey, the *News Chronicle* converted this from a third-class trip to a journey on the Golden Arrow. The possession of such a patron may have made the Knutsford plan unique, but the support which the plan has received from the inhabitants of the town cannot be attributed simply to the fact that a newspaper was interested in the project. It can only be attributed to the fact that the inhabitants themselves were interested in the project. The difference between Knutsford and Stevenage is not a difference between two plans; it is the difference between two methods of approach. The Knutsford scheme can teach a great deal to the planner. It is obvious that the last thing the *News Chronicle* wanted was that the plan it was supporting should fail to win the support of the inhabitants themselves. Automatically their first requirement in its approach to the plan and its preparation was the personal one, that the inhabitants of the town should know what the scheme was, how it would change their surroundings, and how it would affect their houses and their interest. As a result, they saw to it that those preparing the scheme kept the same considerations always in mind, and as a final result, almost

\* Illustrated in the A.J. Physical Planning Supplement, April 11.

without exception, the inhabitants of Knutsford not only accepted this scheme, they became its enthusiastic supporters. A great deal of the information needed for the social survey on which the plan was based were obtained by the voluntary efforts of the townspeople.

It is this lesson which is so important. It is very easy for a planning authority, and for the Ministry, to assume that if its intentions are good, if its plans are for the benefit of the people, there is no need to worry about any real democracy in their preparation. But ramming a good plan down the throats of the people is no less totalitarian than ramming down a bad one. A scheme must grow with the active support of the people whom it is to affect; nor is the machinery for effecting this expensive or difficult to provide from local resources. It can safely be said that if this aspect of planning is neglected, planning will not take place.

Let us be properly grateful then to the *News Chronicle*, which finds that the public does respond to other stimuli than the cynical and unholy trinity of Fleet Street—Lust, Crime and Magic.



*The Architects' Journal*

13, Queen Anne's Gate Westminster, S.W.1

Phone: Whitehall 0611

# N O T E S & T O P I C S

## A TARDY REPORT

The First Report of the Committee on Building Materials for Housing in Scotland (Scottish Council on Industry, HMSO, 1s. 0d.) contains an interesting review of the output of, and prospective housing demand for, the main building materials in Scotland. The committee's main purpose was to recommend extension of manufacturing capacity in Scotland where such extension seemed to be economically justifiable. It re-

commends, or endorses in some cases, plans for increased capacity to produce bricks, cement, lime, metal windows and doors, slates, plaster-board, rock wool—with varying degrees of emphasis. In regard to several other materials it has called for further information, or awaits the results of research. In addition it recommends standardization as a means of reducing costs, reduction of the size of Scottish bricks and quality control.

Very little, however, is said about costs and prices of materials in general, and how they should be minimized. Many of the recommendations are progressive, but there is something rather disquieting about the date of issue. The committee was appointed in March, 1943. Its first report is issued in May, 1946; over three years later. Who indeed shall programme the planners?

The report itself is dated August, 1945. Is there not enough printing capacity in Scotland? Or did some official rump sit on the report? The issue of estimates and statistics months after they are out of date, is a sop to planning, rather than planning itself. The Government has its statistical machinery, from which most of the figures in the report seem to have been

extracted; much too heavy weather is made of assembling these essential facts on programmes, current output and future prospects. As Mr. Bowen has pointed out in the *Journal*, in his comments on official statistics, the materials' position can only be assessed correctly if the Government publishes the stock position and also such estimates as it has on future demand. Why cannot the information be made available for Scotland (and for England and Wales too) in an up-to-date form?

Everyone knows that the position is constantly changing. Who is the gainer from all this secrecy? If it is safe to issue these figures nine months late, then it is just as safe to issue them when they can be of more service to the trade and Parliament itself.

There is a certain naivety in some of the committee's remarks, arising perhaps from a too exclusive reliance on trade associations' evidence in regard to future needs for extended capacity. Paragraph 120, referring to the Paint industry in Scotland, reads: "The representatives [of the industry] assured the committee that the paint manufacturers are most anxious to assist the post-war housing programme." Is this not either a platitude or a case of protesting too much?

## HANDS OFF THE LAKES

Public opinion—that elusive and immeasurable quantity, which is, nevertheless, righteously indignant on occasion—is evidently welded into an imposing striking force by the Friends of the Lake District, whose latest Report and News Letter has reached me\*. Watchful of developments, national and local, which threaten the beauty of the Wordsworth scene, and critical in a knowledgeable manner, the Friends are evidently determined to fight for their heritage. Acting with the CPRE, they have pressed the Government to hold to their written undertaking to remove a seaplane assembly factory on the shores of Windermere. They answer the plea that this factory would provide employment out of the holiday season by reasoning with logic that factories also work in the summer.

\* Friends of the Lake District, Pennington House, near Ulverston, Lancs.

Illustration viewed by the Japanese are sy

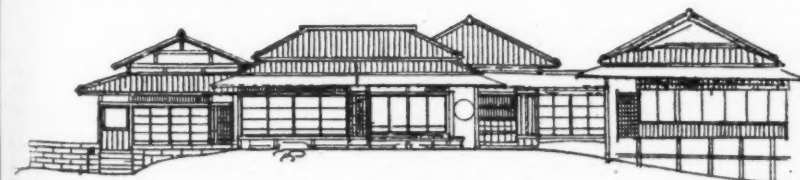


How involved our system of government has now become is a fact clearly brought out in this Report. "The old days are long since past when a protest was a shout and a shout was successful—today a protest is a complicated circumnavigation." The work entailed in keeping up with new legislation poured upon the inoffensive heads of those concerned with the English countryside is indeed immense. It claims an excessive amount of time and patience from all those who seek to rescue scraps of natural beauty. Nevertheless, those who delight to ramble by the Lakes have now marched doggedly into Whitehall, well armed, with enthusiasm and sound argument.

#### PERM. AND PREFAB.

The two illustrations of the standard basis of design in the Japanese house are from *Houses: Permanent and Prefabrication*\* by Master Hugh and Master Anthony (said to be two well-known architects, no prizes offered). Readers of this column will probably be aware of the tradition of standardization based upon the unit of the floor mat or tartamic, 6 ft. by

\* *Houses: Permanent and Prefabrication*, by Hugh Anthony (Pleiades Books, 6s.).



Illustrations of the Japanese house from *Houses: Permanent and Prefabrication* reviewed by Astragal this week. Top, rigid but faultlessly balanced interior with floor covered by the standard ceremonial mats which govern the house dimensions. Below, elevation of a Japanese house showing how rhythmic proportions are achieved by standardised forms which are sympathetically adapted to the contours of the site.

3 ft., which can be seen in the photograph below.

The point is made that strict standardization such as is implied in mass production, need not, if skilfully handled, result in loss of æsthetic quality, the æsthetic refinement of the Japanese house having hardly been equalled. This is part of a larger plea for a rationalized approach to the problem of permanence or temporariness in house construction. It is wrong, say the authors, to build for permanence at a time of social flux, the more so when we see around us the cautionary results of this policy as it was pursued by the speculative builders of the last century or so.

These cadavers of houses, empty of all the amenities that go to make up a reasonable existence, are a permanent burden to us today. Hence the plea for standardized demountable prefabricated wall units which can be stripped and re-used when the house becomes obsolete. This is worth thinking over; temporariness with permanence of fundamental structure.

The authors have some bitter words for those official progenitors of the temporary housing programme whose work, though now discredited, has done almost irreparable harm to prefabrication by presenting it to the public mind as something shoddy, undersized, apt to be permanent and immovable once put down, and to be churned out with no possibility of variety. It is a long time since I read an episode in a book with such relish.

This little note hardly does justice to the excellence and succinctness of the book, which, though obviously intended for the general public, should be read by the profession, too.

ASTRAGAL



## LETTERS

R. S. Wilshere,  
F.R.I.B.A., F.S.I.,  
(Education Architect, Belfast)

A. G. S. S.

E. V. Penn,  
(General Secretary, ABT)

### Crystal Palace Competition

SIR.—What is the real truth about the Crystal Palace? Your correspondent who modestly signs himself E.S. shows no such modesty in his claims on behalf of this building, when he states: "For 100 years the site has been a Mecca for architects of all countries and of many creeds, and it has become the site of national prestige, it is holy ground."

That staunch upholder of the Beaux Arts tradition, the late Sir Reginald Bloomfield, R.A., speaking of the Crystal Palace in 1930, said: "It is just about eighty years ago that Joseph Paxton designed the immense building of the Crystal Palace, and there were sanguine persons at the time who regarded it as a symbol of the peace that was to replace all wars, though within twenty years Germany was to defeat Austria and do her best to annihilate France. If you compare that building with steel and glass buildings erected in Germany in the last few years, you will find that the Crystal Palace, designed by a gardener and ridiculed for generations, holds its own with the work of the latest scientific German architects, and is very much better than the attempts at design by that enterprising person, M. Le Corbusier."

My own recollections of visits to the Crystal Palace in my youth is a dirty glass casing making a most depressing interior.

Looking at the illustration of the building, however, it does seem to me that this building succeeded in making the best of all worlds; it appears to have been an example of Pre-Fabricated Beaux Arts with pseudo Gothic detail.

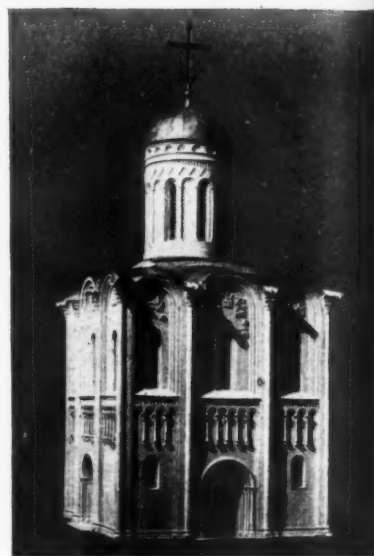
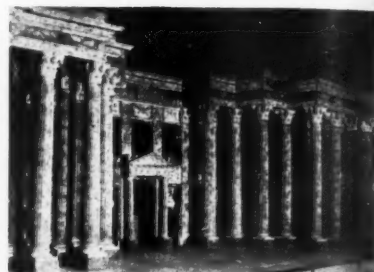
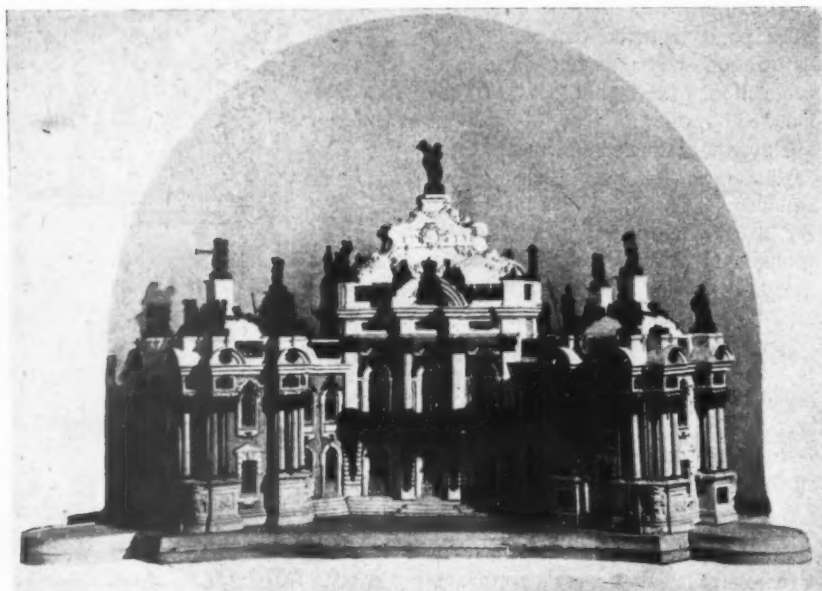
Belfast

R. S. WILSHERE

SIR.—In a modest effort to add justification to the gentle rhyme of G.O.: "No voice must be heard, no disparaging note . . ." having seen most of the designs for the



## MOSCOW'S ARCHITECTURAL MUSEUM



In Moscow the Donskoi Monastery has been turned into an architectural museum. This fortress monastery, built in 1591, marks the site where Russian troops once stopped the invasion of the Tartars. At the end of the 17th century, the existing stone cathedral, manifestly influenced by the Ukrainian style, was built in the Monastery. In 1934 the Monastery was selected to house an architectural Museum, being established at the same time as the Academy of Architecture in Moscow. It now collects, preserves, studies and popularizes all material relating to the history of Russian architecture—rare drawings, books, models and photographs—and is somewhat similar to our National Buildings Record though on a bigger scale. The museum is now making a careful selection of drawings, and engravings of old Moscow for a special exhibition to be shown during the 800th anniversary of the city, which takes place next year. Top left, model of the pavilion Hermitage at Tsarskoe Selo (now the city of Pushkin) designed by Rastrelli, which is exhibited in the museum. Top right, model of the Grand Ball Room of the Kremlin Palace, designed by V. Bazhenov. Below right, another model—the Pokrov Church, executed by the museum's model makers in 1940. Centre left, a general view of the Monastery. Bottom left, the northern gates of the Monastery; the figures of Slav soldiers are by the sculptor Vitali.

future Crystal Palace, I would like to express a word of sympathy for this competition's assessors who have given no evidence of unsympathetically brushing aside anyone's scheme.

It is very generous of the "six competitors" saying that the assessors are entitled to their views and judging from the awards made, I would say they were sane and impartial ones.

Several of the designs seem to be "heading straight for another Wembley" to quote irate "E. S." but the assessment has delivered the public from that, and to use this correspondent's words again—"there were, indeed, some good schemes submitted"—and the winning design is, in the humble opinion of a mere outsider among architects, one of the best. It was perhaps a pity that the assessors did not add that although the award was made primarily on layout, the winning elevations are also

amongst the most dignified and suitable in the midst of an almost bewildering exhibition of clever but fantastic engineering and demonstrations of the immortal shear force diagram.

If "E. S." and others had not sounded so obviously disappointed from embittered viewpoints, their convictions might have carried more weight.

And just to pique these dear people, I hope the winning design will get built in the next twenty-five years.

A. G. S. S.

### RIBA Elections

Sir,—Every year the ABT is asked by many architects to recommend some of the candidates standing for election to the RIBA Council. This year the list of candidates has been carefully studied by our Architects' Sectional Committee, and I give

below a list of persons who would, in our opinion, benefit the architectural profession if they were elected.

All are men who have proved in the past that they have a sane, independent and progressive outlook. I would especially mention in this connection Messrs. Birkin Haward and H. J. E. Pyne, who, because they have recently returned from service in the Forces, may not be so well known in the profession as some of the other candidates.

We hope that all those whose names we give below will be elected.

E. V. PENN.  
General Secretary, ABT

London

Fellows: J. W. M. Dudding, Gordon Stevenson, C. G. Stillman, V. L. Nash, Raglan Squire. Associates: Kenneth Campbell, Professor W. G. Holford, Birkin Haward. Licentiate: H. J. E. Pyne.

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# PHYSICAL PLANNING SUPPLEMENT



## MABLETHORPE & SUTTON-ON-SEA

### REPLANNING OF THE FORESHORE

An Exhibition was recently held in London of the Mablethorpe and Sutton-on-Sea Foreshore Redevelopment Scheme, prepared by Mr. G. A. Jellicoe. The local Urban District Councils realising the pressing need for amenities and facilities which would serve both the permanent residents of the districts and also create a care-free atmosphere for visitors, conceived with the co-operation of all concerned, the Redevelopment Scheme reviewed below. The two townships—Mablethorpe and Sutton—were constituted as an urban district council in 1925 and for planning purposes have, since 1943, formed one of the constituent bodies of the East Lincolnshire Joint Planning Committee. The first planning scheme of the Council was in being in 1938. Above, a view of the extensive beach at Mablethorpe taken from the air. Photo: Aerofilms Ltd.

Six miles of magnificent sands, backed by a comparatively undeveloped expanse of sand dunes broken only occasionally by a few buildings and gardens, the ever varying shapes of waves breaking on the beach, and an unbroken skyline, constitute the panorama into which the Mablethorpe and Sutton-on-Sea Development Scheme for the foreshore had to be moulded. At the same time one of the main considerations of the Scheme was the combination of the layout with the construction of sea defences in a manner which would be advantageous to both. The sea defence works are the responsibility of the Alford Drainage Board, whose origin dates back to the reign of Henry VII. The newly planned area lies along the coast between the Humber and the Wash, and the two townships of Mablethorpe and Sutton are separated by an agricultural area which includes the village of Trusthorpe. Among those working in conjunction with Mr. G. A. Jellicoe on the Development Scheme were Messrs. Lewis and Duvivier as consultants to the Alford Drainage Board, Miss Crowe on the planning, and Mr. Lionel H. Fewster for Butlin's Amusement Park.

#### layout

To appreciate the wide scope of the scheme, it is first necessary to examine the character and likely development of the

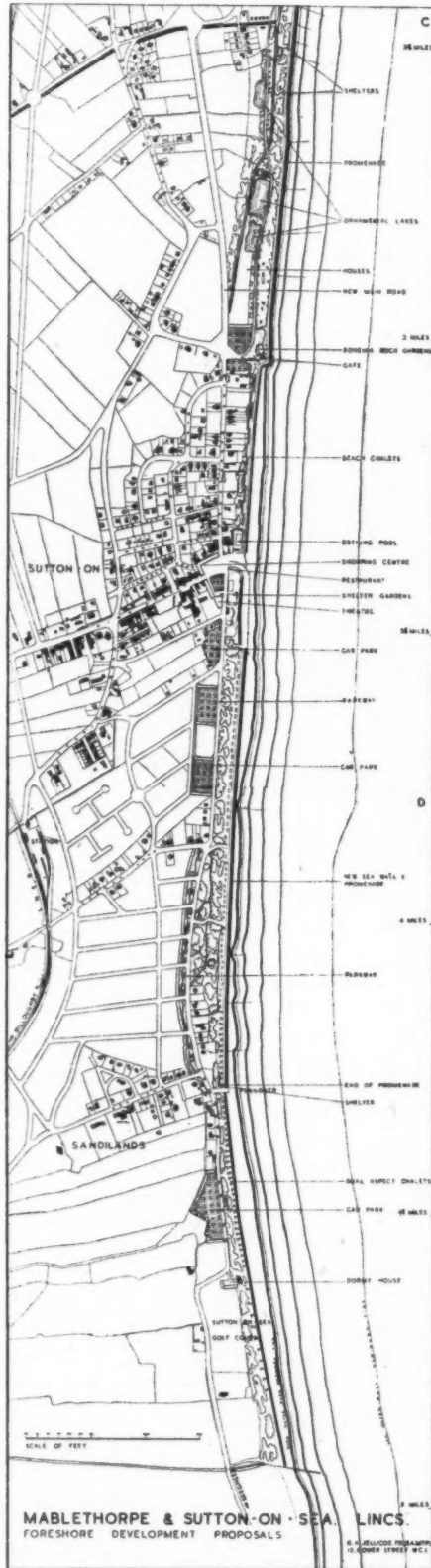
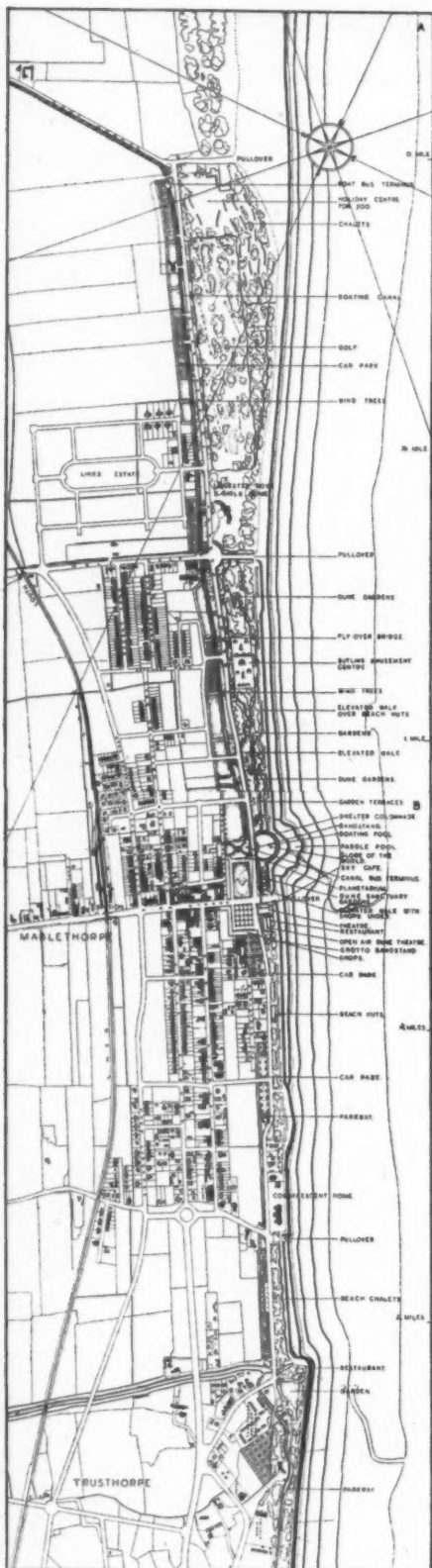
twin townships of Mablethorpe and Sutton. In 1939 the resident population of the district was not more than 6,000, and visitors during holiday months brought this figure to approximately 30,000. Although the whole of the area is a seaside resort and by reason of its geographical position likely to benefit greatly by *Holidays with Pay*, it has been planned to retain the quiet residential atmosphere of Sutton and to develop Mablethorpe as a shopping and amusement centre. Full regard has been given to the planning of the coastline whether viewed from sea or land.

The seaside is dominated by the sea wall, which will link the brightly coloured beach huts, cafés, restaurants, kiosks and shops that form part of the foreshore development. The background will be formed by the undulating line of sand dunes which, in some places, rises immediately from the promenade. Great care has been taken to preserve the natural features of the landscape and incorporate them in a five mile parkway running parallel to the south-west side of the sand dunes. Advantage, for instance, will be taken to enlarge and use a land drain north of Mablethorpe as a navigable canal, and disused excavations at Trusthorpe will be turned into picturesque lakes. The parkway will be lined with trees and flanked with gardens, and the planting of the sand dunes and road verges has been specially studied to suit the unusual character of the site. The parkway will follow the natural contours of the ground, and give ready access to all parts of the foreshore, but will in no sense be a main road. Ample parking areas are provided for the motorists who will be attracted to the district.

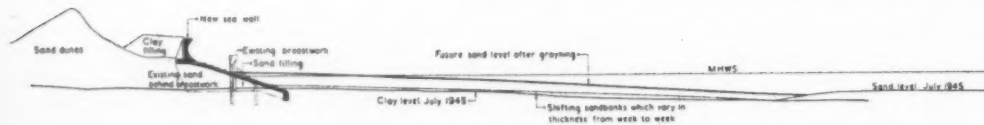
The existing sea wall, which is approximately three miles in length, was started in 1921 to replace the original timber revetment, which had served its useful life. The consulting engineers acting for the Alford Drainage Board are responsible for the new sea wall, and are endeavouring to combine their purpose with a design which will assist the development of the foreshore. This massive sea defence provides a promenade of almost unbroken length between

## LAYOUT PROPOSALS

The Layout Plans showing the proposals for the redevelopment of the foreshore at Mablethorpe and Sutton-on-Sea. The newly planned area lies along six miles of coast between the Humber and the Wash, and the two townships of Mablethorpe and Sutton are separated by an agricultural area which includes the village of Trusthorpe.



Above, two views of the sea wall, which has been designed with the purpose of protecting the coastline, and at the same time conforming to the foreshore layout proposals. Below, a section through a part of the sea wall.



## SEA WALL



Mablethorpe and the southern limits of Sutton-on-Sea. Care has been taken to ensure that the wall itself did not encroach upon the sand dunes, the silhouette of which will continue to be the main landscape feature from the west or land side.

#### amusement facilities

After the sea wall the most prominent feature of the plan is the erection of more than 1,000 permanent beach huts, a start on which has already been made. It is anticipated that 75 will be completed in time for the coming season. The beach huts will be provided with water, gas and electricity, thus enabling preparation of meals, etc., so that the maximum time can be spent by the sea. Interspersed among the beach huts will be kiosks, shelters and refreshment bars, suitably

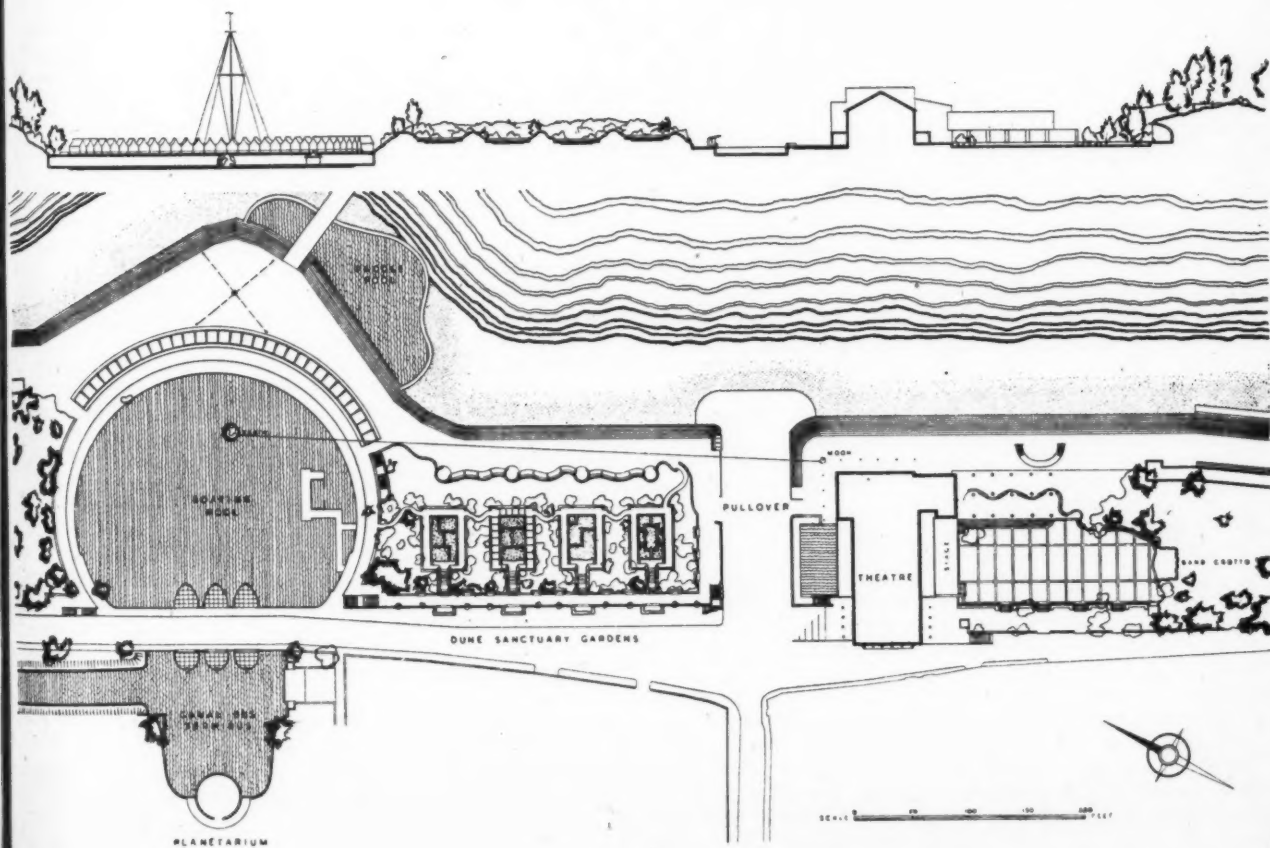
painted to give colour to the seascape. The scheme includes a pavilion, comprising a theatre, a restaurant and two cafés, one being named the Sky Café by reason of its high elevation. In the grounds of the pavilion there will also be an outdoor theatre, planned to seat 2,000 persons in a sheltered auditorium, with a stage at either end, that to the north for straight drama, that to the south, which is in the form of a grotto in the dunes, for music. Indoor and outdoor theatres may be used together or separately at the same time.

The boating lake, adjacent to the pavilion, forms the pivot of the amusement centre. It is not only the southern terminus for the canal boats, but is also the centre of a group of other amenities, such as the paddling pool, the planetarium, and the formal gardens. Covering an area of approximately one acre, it will be surrounded by a sheltered colonnade, and will have a band or music barge from which musical accompaniment will be provided for boaters and spectators. A curiosity of the boating lake is the large *floating globe* of the



#### CENTRAL AREA

Left, the model of the Boating Lake and the Pavilion, which form the central feature of the redevelopment of the foreshore at Mablethorpe. The floating globe does not appear in the photograph but is shown on the layout plan below.







## THE BEACH

Left, a view of the sand dunes to the north of Mablethorpe, illustrating the character of the existing landscape—six miles of magnificent sands backed by a comparatively undeveloped expanse of sand dunes and an unbroken skyline. Below, the first of the 1,000 or more beach huts which it is proposed to erect.



world, which is to be constructed near its centre. In conjunction with this, a miniature moon, built to scale and set at the correct proportional distance from the globe, will be erected on the highest point of the pavilion. Visitors in the Sky Café will thus be able to observe how the actual earth would appear if viewed from the moon. The planetarium which is to be erected behind the boating lake will be the first ever planned in this country; by a complicated system of machinery the movement of the planets on their orbits may be observed. Between the pavilion and the lake lie the Four Dune Gardens, intended to be sheltered retreats in the sand dunes. Each will be different and will be a blaze of flowers. In addition to the features already mentioned, the complete scheme includes the construction of a modern open-air swimming pool at Sutton-on-Sea, and an amusement park and sea front shopping arcades at Mablethorpe. Plans have also been prepared to provide a 9-hole golf course along the foreshore north of Mablethorpe, with facilities for tennis and bowls at other parts of the front. At the north terminus of the canal a site has been provided for the erection of a holiday camp for 500 persons.

### town centre

The development of the town centre is closely allied to that of the foreshore. Plans have been prepared for the reconstruction of parts of the town in order to provide new shopping centres. This project is part of the Council's town planning scheme prepared by their Engineer and Surveyor, Mr. A. Baker. It includes new housing estates, sites for hotels, cinemas, and other holiday accommodation. This work is planned to be undertaken in line with the development of the rest of the scheme.

### gardens

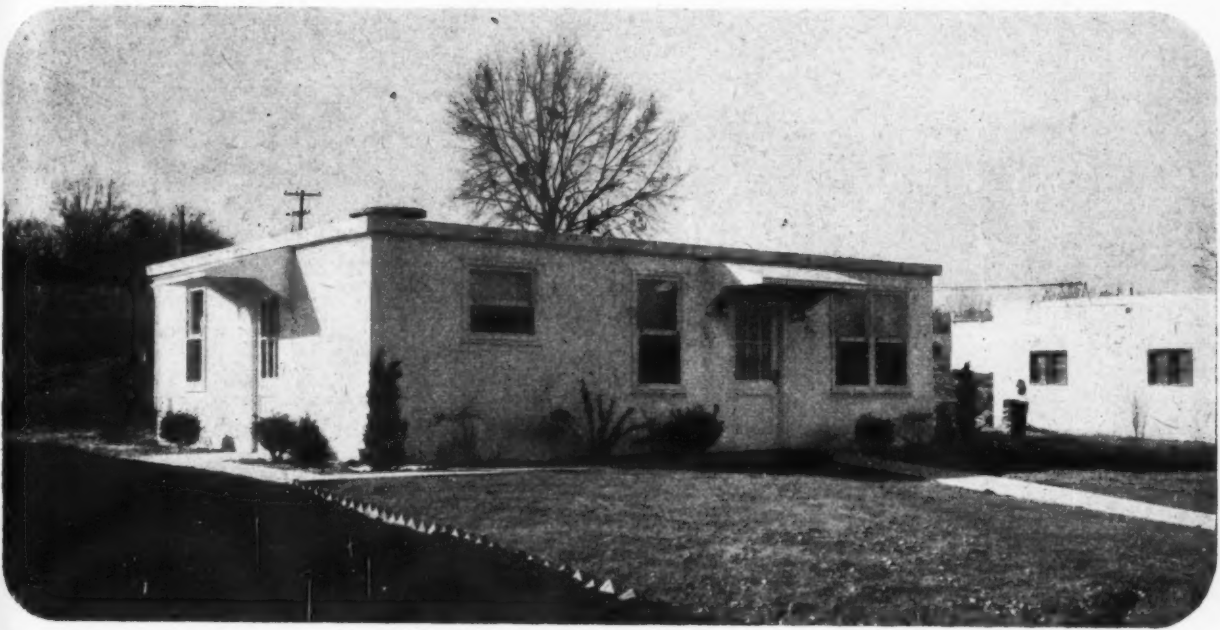
The stretch of sand dunes along the foreshore has been acquired by the council, who plan to make this area a series of natural gardens and ornamental lakes, with elevated walks commanding extensive sea and land views.

In the past, our seaside resorts have suffered through the layout of gardens on their foreshores being too formal in character. The domination of the natural landscape, or more correctly seascape in this particular instance, brought about by the vast expanses of sea and sky which confront the spectator at the coast, can never satisfactorily accept the efforts of man if he works in competition, and the use of grandiose layouts brought from the gardens of the Renaissance is unsatisfactory in the natural panorama; man must

be subservient to nature in these circumstances. The landscaping of the Mablethorpe Scheme satisfactorily achieves a cohesion of the man-made facilities, which a popular seaside resort calls for, with the natural dominating seascape. Utilising the sand dunes as the basis for the scheme, and avoiding any individual features of great size or staccato character, the existing vista of unbroken foreshore is retained. The criticism which can be made of the layout—that it lacks features of sufficient size and dramatic value, such as a pier or large group of buildings—is ruled out when the requirements of the functional continuous sea wall and the natural perspective of surf, sand and dunes as far as the eye can see, are respected. Sufficient emphasis to prevent monotony is given, however, by the grouping of the theatre and boating pool at the end of Mablethorpe's High Street, and the theatre and shopping centre at Sutton-on-Sea. In the same way, the extension of the foreshore layout either into or between centres of urban development, which has the value of linking the holiday atmosphere of the sea front with the essential town background, would disturb the peculiar merit of the coastline in the case of Mablethorpe and Sutton-on-Sea.

The problems of outlining a planting scheme which will actually develop in time to fulfil the requirements of the layout have been dealt with by research into the types of trees and plants which do and can flourish under the particular conditions of this coastline, and planting will commence next autumn. The fact that the sun comes from over the land on the East Coast for the greater part of the holidaymaker's day has raised interesting questions of shelter, sun catchment and sea views, all of which have been considered in the detailing of the various features.

The years of war have left their mark on our seaside resorts; the paintwork has suffered more from exposure than in many inland towns; the gardens have lacked constant care; and many development schemes have been left in the plan chest. Mablethorpe and Sutton-on-Sea are to be congratulated on their early start and their faith in a comprehensive reconstruction and layout of their foreshores, and it is to be hoped that they will prove the first of many other enlightened Authorities.



*One of the first Tournalayer houses at Vicksburg, Mississippi, USA.*

## TOURNALAYER HOUSE BUILDING P L A N T

The R. G. Le Tourneau Corporation has produced a giant piece of construction called the Tournalayer, which can cast monolithically the basic structure of a reinforced concrete house, including walls, roof, eaves, central partition wall, electrical conduits, light fixture boxes and outlet boxes. This structure is cast away from the site at a convenient spot; the rig then carries the house to its permanent site, and lays it like an egg. As initially released from the steel forms, the house is 32 ft. 8 in. long, 24 ft. wide, and 10 ft. high. All walls are 5 in. thick, the roof being 8 in. thick at the outside, sloping inwards to the centre. The outside wall flares out at the bottom to 12 in.

The Tournalayer consists of a heavy steel base upon which are mounted two inner moulds; an outer form; a prime-mover; and a wagon unit. The outside form is open at the bottom and the top is suspended between the U arms of the wagon. The wagon consists of a huge rubber-tyred tractor, steered electrically, with trailer attached. Three electric hoists are mounted on the wagon unit, forming a three-point suspension for independent levelling of the house. There is also a main hoist which raises the form bodily from all three points at once. To release the wagon from the form

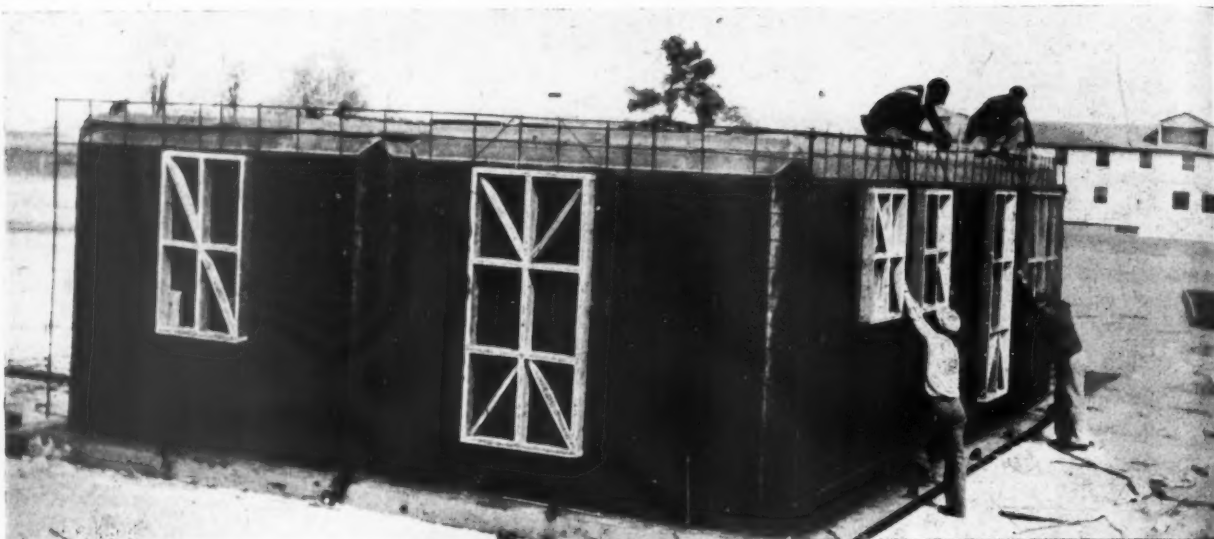
and connect it to another form, it is only necessary to pull three pins. The entire form can be picked up by the electric hoist and driven to a new site without dismantling the unit. The machine is built of bolted sections that can be knocked down for transport; a special self-aligning bolt makes assembly rapid. A crane is necessary initially to set up the Tournalayer. The outside form consists of four steel walls hinged together at the four corners with an eccentric expansion hinge. These hinges can be expanded to release the outside steel walls from the concrete.

Window and door frames are of wood, steel or aluminium, and can be fastened to the inside form where required. Conduits are also fixed to the inside form. The steel reinforcement is then set in place, and the outside form is hoisted, backed over the inside form, lowered and latched in place.

A light-weight concrete is then poured into the space. A large seven-yard-long concrete mixer is used, which mixes the concrete and then pours it over the top of the mould. Care is taken to vibrate the material under the door and

window frames. To finish, a strike is used leaving the flat roof sloping to a central sump, which has a single drain buried in the concrete carrying the rain water to the side of the building. As soon as the concrete is set, the inside form is contracted by means of levers to relieve it from the concrete. The house carcass is still in contact with the outside form and hanging to it. This outside form is then hoisted up by the main electric motor, driven to the final site for the house by the wagon and lowered to the ground over the prepared foundation walls. The outside form is then expanded to release the carcass, is raised up and driven back to repeat the operation. Floors are then installed in the house and the desired partitions and equipment fitted. The house is then ready for occupation.

Experiments are now being made on a system of casting grooves in the concrete carcass where partitions are desired, the partitions being of steel panels sliding into the grooves. Experiments are also being made on two-storey designs in which the second storey is dropped on to the ground floor storey by the Tournalayer.



**1** The inner form is placed upon its base—door and window frames are set against the form in desired sizes, number and positions, and electrical conduits, fuse boxes and room outlet boxes set in place. Reinforcing steel mesh is mounted.



**2** The Tournalayer, with outer form hoisted in the air, backs up so that the rear wheels straddle the inner form and suspends the outer form directly overhead.



**3** The electrically controlled hoists lower the outer form down over the inner form until it rests on the base. The Tournalayer may be unhitched from the outer form, leaving the forms assembled and ready for concrete pouring.



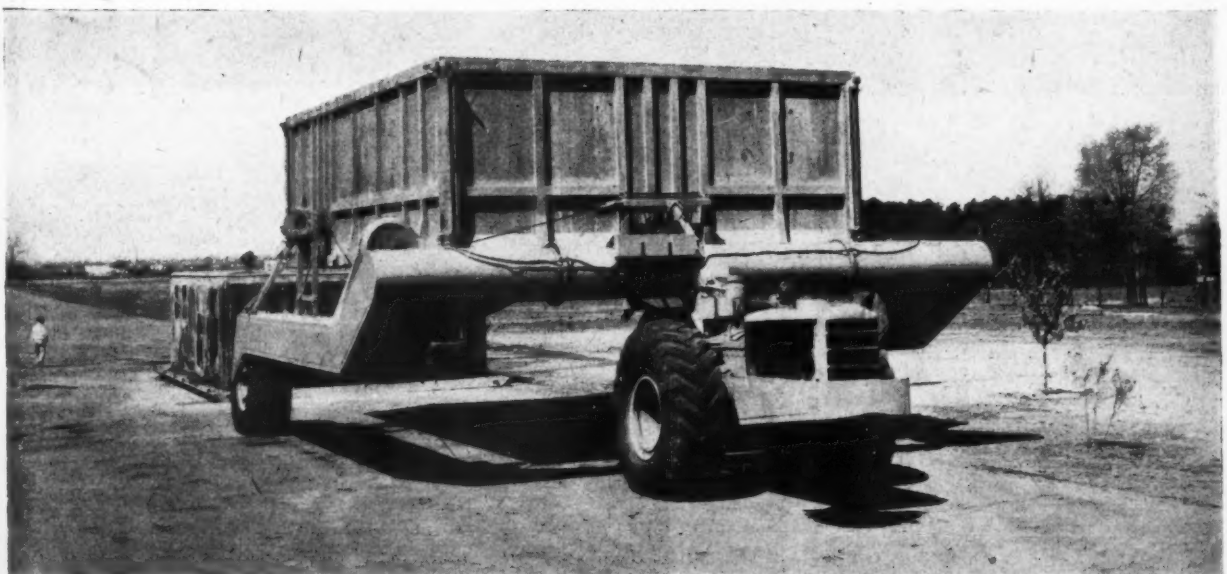


**4** The Tournalayer is then free to repeat this operation with other moulds. One Tournalayer unit can service as many as twelve moulds depending on the number of houses the contractor has to build.



**5** The mixer moves in and begins pouring lightweight concrete into the top of each mould. Care is taken to see that concrete is worked closely around window and door frames. When walls and partition have been poured, the mixer continues to pour until the roof is completed. The entire mould remains there for about 24 hours until the concrete is adequately set.

**6** After the concrete has set sufficiently, a worker enters the inside of the chambers and by turning a crank, the walls of the inner mould come inward, away from the concrete. The Tournalayer backs up, straddles the mould, and hooks onto the outer form. The Tournalayer hoists the outer form, house and all, into the air, and travels towards the building site.



TOURNALAYER HOUSE BUILDING PLANT





**7** Approaching the building site, the form containing the house is carried directly over its prepared foundations.

**8** The outer form containing the house is now lowered into position. Then a simple mechanical device moves the four sides of the outside form outward and frees the house carcass. The mould is then hoisted to clear the top of the house, and the Tournalayer returns the mould to the central operating point for the next house.



**9** The completed basic structure. The house is now complete with walls, roof, eaves, centre partition, electrical wiring and outlet boxes. Plumbing inlets and outlets are installed, floors are poured and partitions fixed. The house is then ready for occupation.



TOURNALAYER HOUSE BUILDING PLANT

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# INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

## PHYSICAL PLANNING

2574 Planning School Report

TOWN AND COUNTRY PLANNING SCHOOL, BRISTOL, September 19-25, 1945. (*Journal of the Town Planning Institute, November-December, 1945, pp. 14-30.*) Abridged report of proceedings of Town and Country Planning Summer School, Bristol, 1945, opened by Minister of Town and Country Planning, and attended by 27 delegates from abroad. Legislation. New Towns and town extensions. Planning research. Population densities. Recreation. Commercial needs of towns. Planned distribution of industry. Transport. Education in planning. Profit or loss of reconstruction.

The Minister of Town and Country Planning Mr. Lewis Silkin, stressed the need for the control of land use and for legal and administrative action in regard to payment of compensation and the solution of the problem of betterment. Decongestion should take place linked with the planning of new towns. The difficulty was in adapting local government structure to the creation of new towns, and he thought independent self-government was needed if these new towns were to attain their full status. He had decided to appoint a committee to study and report on new towns under the chairmanship of Lord Reith. (Just published *First and Second Interim Reports of New Town Committee, Cmd. 6,759 and 6,794, H.M.S.O., 1946, and New Towns Bill, H.M.S.O., 1946.*) He was concerned at the relatively small number of planners and felt that the immediate need was for 1,500 planners of whom only 1,000 were at present available.

Mr. A. Copewell delivered an address on *Recent Planning Legislation* dealing with the 1943 and 1944 Town Planning Acts.

Mr. J. F. Eccles read a paper on *New Towns and Town Extensions* (see also *Architects' Journal, January 10, 1946, Physical Planning Supplement*). Two essential points had to be considered: the nature of physical environment and the means to be employed in building the town in the quickest and most practical manner. He thought Regional Committees would be required for each area of the country where new towns are proposed. Schemes must include the sponsoring of new local authorities for each new town, but should not involve direct executive action. The main problems in regard to building a new town—of which the site had already been settled—were: Land, Industry, Housing, Recreation and Open Space. To lay down the future skeleton of the plan he considered the following items of major importance:

- (a) Site of the railway station and goods yard.
- (b) The approximate sites of the industrial area and the main town centre.

(c) The main foul and surface water discharge lines and site of sewage works.

(d) The main lines of road access.

(e) The number, size and position of neighbourhood centres.

(f) The approximate sites of sub-centres in neighbourhood units.

(g) The first attempt to allocate school sites.

(h) The site of waterworks and lines of mains.

(i) Sites for line of gas and electricity centres and mains.

(j) Preliminary selection of playing fields and parks.

(k) Synchronisation of the various factors.

Mr. J. Madge read a paper on *Research as a Basis for Planning*. The acceptance of planning leads inevitably to the need for research. The research programme for any locality should include the collection and co-ordination of information relating to the location of industry, and to the various natural resources such as land, agriculture, amenities, etc., which may be affected by industrial location. Regional research groups are necessary for local knowledge and understanding. There are three possible types of regional research: governmental, independent, and academical.

Mr. R. J. Nicholas read a paper on *Population Densities*. There should be sufficient decentralization of industry to balance the movement of population. The distance between tall blocks of flats should be about one-and-a-half times their height, and they should be given an east-west aspect if the surrounding soil was to remain fertile. He thought adherence to the Tudor Walters standard of 70 feet between dwellings was essential.

Mr. J. Bowers read a paper on *Planning for Recreation and Holidays*. Holiday making is a land use to be integrated in planning with other land uses. A graded pattern of holiday uses was needed especially round the coast. An improved system of right of way and footpath access should be devised to give access to the countryside. Other points dealt with included National Parks and camping.

Mr. O. W. Roskill devoted a paper to *Commercial Needs of a Town in Relation to its Function and Size*. Town planning has become too much pre-occupied with housing and has paid too little attention to other aspects. A much higher proportion of costs is absorbed by distribution in retail business than is economic. There should be variation in the physical requirement of shops, and each shop should be studied individually. Car parks should be in close proximity to shopping centres. It was better to have a number of small parks instead of a few large ones. A good working rule was to allow for 20 cars for every 100 feet of main street frontage. The wholesale trade should be related to town and country planning.

Mr. F. J. Osborn read a paper on *Planned Distribution of Industry*. The birth, growth and decrease of town depends on the location of industry. There are two types of industry: basic and local. The essential local industries occupy rather more than half the

working population of the British Isles. It is the location of the other half, the national or regional industries, that really governs the distribution of the whole population. There should be a maximum density not only for housing but also for business areas. Zoning should be quantitative. There are more definite means of promoting new developments in selected "overspill" areas than elsewhere.

A paper on *Transport Trends in the South West*, by Sir Alfred Robinson, dealt mainly with bus transport and its problems.

Mr. A. W. Williams read a paper on *Public Education in Planning*. Planning will become part of public opinion only when the idea of community building is put into operation. Decentralization is the key to public participation, not merely physical but also social and political decentralization. Survey and planning are the products of team work . . . the public can be used through local societies, etc., to assist in the collection of planning data. Exhibitions of the results of surveys are important factors in arousing public interest.

Mr. H. W. Wells read a paper on *Profit or Loss of Reconstruction* dealing with the following aspects: Financial considerations. The benefits of redevelopment. The costs of redevelopment. The danger of unqualified publicity to capital cost of development. In what form should estimates be set out? Building up the profit and loss estimate. Estimating the increase or decrease of rateable value. Conversion of increase or decrease in rateable value into rate revenue or loss. Conversion of profit or loss into increase or decrease of rate poundage. Cost of constructional work. Local Authorities.

## STRUCTURE

2575 Precast Concrete Frames

A NEW SYSTEM FOR PRECAST CONCRETE FRAMES. (*The Architects' Journal, March 21, 1946, pp. 233-5.*) Rigid frames composed of precast reinforced concrete units. Applicable both in single storey and multistorey buildings.

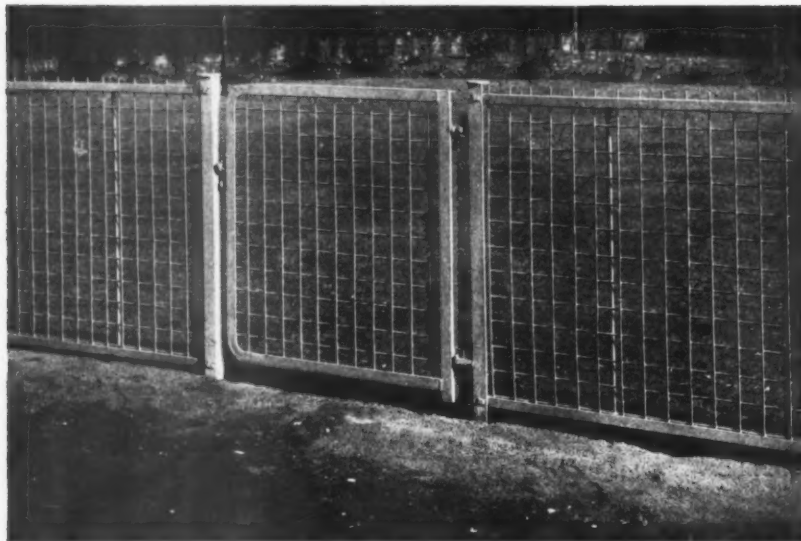
2576 Jemm Flatted House

THE JEMM FLATTED HOUSE. Designed by John E. M. Macgregor. (*The Architects' Journal, February, 7, 1946, pp. 127-130.*) Framed construction formed by unit *in situ* reinforced concrete piers without the use of temporary shuttering. Precast concrete pier bricks bond into 4½-in. brick wall capped with pier bricks laid on edge, reinforced horizontally. Piers spaced at 8 ft. 5 in. centres.

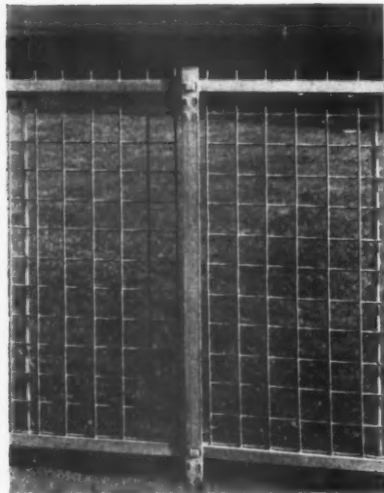
2577 Standardized Fencing

STANDARDIZED FENCING. (*Information from Bayliss, Jones & Bayliss, Ltd., 139, Cannon Street, E.C.4.*) "Morriss" fence with frame of steel tees and angles and square mesh wire panels. Self-closing gate. Triple punching in standards for stepping to suit gradients.

The fencing has a framework built up from simple tees and angles which should make for cheap production in quantity. The top and bottom rails of the fence panels are fastened to the standards with special V clips and the fixing holes are punched at three levels to enable the panels to be stepped for gradients—a point not always remembered in fence designs.



Morliss standardized fencing, of steel frame and wire mesh panels. See No. 2577.



The upstands of the square mesh make the fence virtually unclimbable. Each gate is fitted with a pendulum automatic latch and has a special device on the bottom hinge which makes the gate self-closing.

The whole assembly would make a good deal of difference to many of the current prefabricated house layouts. See photographs on this page.

## MATERIALS

### 2578 Floor Tiles

CLAY TILES FOR FLOORING. BS 1286: 1945. (British Standards Institution, 2s. 0d.) Dimensions and workmanship.

### 2579 Wall Tiles

GLAZED EARTHENWARE WALL TILES. BS 1281: 1945. (British Standards Institution, 2s. 0d.) Dimensions and workmanship.

### 2580 Bleached Lac

BLEACHED LAC. BS 1284: 1946. (British Standards Institution, 2s. 0d.) Properties and requirements. Methods of test.

in two sizes to suit ceiling heights of 8 ft. or 8 ft. 6 in.

### 2583 Dish and Clothes Washer

COMBINED DISH AND CLOTHES WASHER. Trade Literature. (The Hurlay Machine Co. (England), Ltd., 55, Oxford Street, London, W.1.) Known as the Thor Automatic Washer. Said to be first combined dish and clothes washer.

The machine is said to wash 8 lb. of clothes and to complete the drying process. Alternatively by changing the tub the machine can be used for dish washing with a claimed capacity of crockery and cutlery for six people. Water connection is through a hose connection to a fixed tap. The time needed for washing, double rinsing and drying of clothes is said to be 30 minutes and for washing and drying crockery 12 minutes.

It is expected to be in production this month at a price of £50 plus purchase tax, or at a lower price of £37 10s. plus tax for clothes washer only. The dish washer can be added later. Other attachments are planned.

Size, 24 in. square by 36 in. high. Driven by 1-h.p. motor. Emptied by impeller pump.

## QUESTIONS and Answers

THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.1.

### 2584 Special Paints

Q Can you recommend a satisfactory colour (paint) treatment for galvanised iron agricultural buildings? The colour tone wanted is for grey, green or black.

Have you information upon the colour treatments (and preservatives) for asbestos sheetings?

In both cases it is desired that the external colour treatment of this type of building construction may blend with open country.

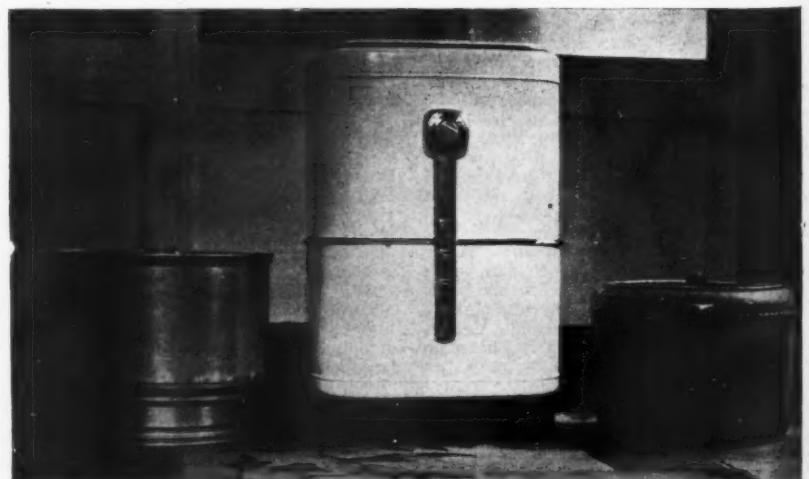
## EQUIPMENT

### 2582 Storage Fitments

STORAGE FITMENTS FOR LIVING ROOMS AND BEDROOMS. BS1292: 1945. (British Standards Institution, 2s. 0d.)

Part I, overall dimensions for clothes storage units, bookshelves and living room cupboards. Part II gives series of standard units based on Part I. Third part giving standards of construction to follow.

This is a logical sequence to earlier BS giving similar details of kitchen cupboards. Designers should take note of these fittings in the planning stage. In particular the overall heights should be noted. These are



The Thor Automatic Washer, combines clothes and dish washing by the use of two tubs. See No. 2583.



# melting the raw materials

Development from the open pot system to continuous melting in gas-fired tank furnaces.

The raw materials used in the manufacture of glass are silica, lime, alumina, and soda, carefully selected and refined. Weighed quantities of these materials are thoroughly mixed to become what is known as 'frit' which must then be melted to become molten glass.

For very many years glass was melted in open fireclay pots or crucibles heated in furnaces. Over the years, there were technical improvements, furnaces became more efficient, pots became larger and were partly handled by mechanical devices, but the principle remained unchanged for generations.

This method was used at Pilkingtons for many years. The 'frit' was melted in the pots in a regenerative furnace, each pot containing about a ton of glass. As the 'frit' melted and lost bulk it sank down

in the pot, the 'metal' (molten glass) thus formed being of a heavy, sticky consistency and full of bubbles. It was then fined by heating to a high temperature, whereupon it became quite thin and watery and the bubbles rose to the surface and escaped. After refining, the furnace was cooled down until the 'metal' was of the right consistency and the pot was then removed from the furnace for working.

the **OLD**

The fireclay pot has just been removed from the furnace.



and the **NEW**

There was, inevitably, much delay in the pot method—filling; emptying; repairing; renewal of pots; for their life was not long in high temperatures. The demand for glass was increasing tremendously, at home and overseas, and it was necessary to find new and quicker methods of melting glass.

Pilkingtons developed the large gas-fired tank furnaces which increase speed of operation, reduce manual operations, and make mass production possible. These tank furnaces melt and refine continuously, and each can melt 100 tons or more of 'metal' per day. The 'frit' is fed at regular intervals into the melting end of the tank, where the tempera-

ture is around 1500°C. When the 'metal' reaches the working end of the tank, it is homogeneous and free from bubbles and its temperature has been lowered to about 1000°C., at which temperature the glass is in the right condition for working.

This is published by **PILKINGTON BROTHERS LIMITED**, of St. Helens, Lancashire, whose Technical Department is always available for consultation regarding the properties and uses of glass in architecture.

**LONDON OFFICE AND SHOWROOMS AT 63, Piccadilly, W.1.** Telephone: Regent 4281, where architectural students may get advice and information on all questions relating to the properties of glass and its use in building.



The filling end of a gas-fired glass melting tank.



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side, or in villages with stone buildings.

**A** So far as we know normal oil paint application is satisfactory for galvanised iron roofs provided that a month or two is allowed for weathering. If you require a black it might be worth considering the use of RPM corrugated sheeting which is covered with a bituminous base or mastic. This material was available in one or two colours

before the war and coloured sheeting may soon be available.

We understand that Imperial Chemical Industries have recently evolved a paint (for use on the Arcon house) which can be applied to asbestos cement without having to leave it to weather. You will be able to obtain information about this from ICI Paints Division, Slough, Bucks.

It is now nearly seven years since the *Journal's* pre-war feature of weekly Trade Notes was abandoned for lack of material. During this time there have been major developments in technique, and the old established firms have learnt the new methods of other industries. Builders who never ventured further than wheelbarrow and hired lorry have been moving mountains with bulldozers and drag line excavators: water heater makers have been turning out aircraft gun turrets, window and furniture firms have been making motor torpedo boats, school fitters have turned out Mosquito wings and fuselages: the big contractors have been a-Mulberrying with floating docks, barges and all manner of unfamiliar work involving new ideas and unaccustomed skills. The change over to the reconstruction programme involves a further revolution while the established firms revert to their peace time activities, but at the same time a number of other firms whose potential output has been vastly increased by war are making efforts to join an industry which should have plenty of work for many years to come. It is the duty of the *Journal* to record not only the marketing of new designs and the reappearance of familiar products, but also the general trend of developments within the industry. Our pre-war Notes are therefore being resumed under a new title which will allow them to cover this rather wider scope. Manufacturers who have new designs in hand or any other news be of interest to architects are invited to send full information to the Editor.

## THE INDUSTRY

[by Philip Scholberg]

### AVAILABLE MATERIALS

Anyone who has spent a little time trying to buy household equipment during the last few months must have been more than depressed at the poor quality of many of the goods displayed, at any rate so far as the lower price ranges are concerned. The reason is, of course, simple enough in that labour and material costs have more than doubled, and in certain types of goods purchase tax adds a quite considerable sum. A light gauge steel bathroom cupboard with a cellulose finish was only a few shillings in 1939, but the same thing is now £2 or more. As long as the goods-starved public is prepared to pay the price nobody but the National Savings Committee seems to worry very much, but when the reaction sets in those architects who are turning their hands to industrial design may find that the public has become rather suspicious. The problem is also one of materials, and designers will have the rather difficult task of persuading their clients that a new design is necessary if the first choice material is not available. Many of the raw material producers are long sighted enough not to allow their products to be used for unsuitable purposes (witness the large sums which have been spent during the last few months in an attempt to play down the possibilities of plastics), but not all firms are equally enlightened, and designers may find a light alloy kitchen cabinet produced in some entirely unsuitable material. The only possible solution seems to be to produce a number of designs for different materials and hope that no restrictions will have come into force by the time production starts. Incidentally the freeing of a material from all restrictions seems to be almost worse, for in several recent instances it has been the signal for it to disappear from the market altogether.

### A NEW WATER HEATER

A new flueless instantaneous water heater has recently been marketed by Ranalal, Ltd., a firm which is a newcomer to the building industry, but which I remember as producing rather good purpose made car bodies in the middle 'twenties. During the war they have been turning out a large quantity of sheet metal work and pressings,

as well as landing craft and launches for the Services, so it would seem that they have the equipment and manufacturing standards suitable for good class house equipment. Their new heater is definitely not intended for supplying baths, as the output is  $\frac{1}{2}$  gallon a minute raised 80° F. It is suitable, therefore, for sinks and lavatory basins, and there will also be many conversion jobs where it will be economic if the pipe runs for a normal hot water supply would be unreasonably long. The photograph on this page gives an idea of its appearance, and overall sizes are quite reasonable, 26 by 7 $\frac{1}{2}$  with a projection of 7 inches. Gas and water supply pipes should be  $\frac{1}{2}$  inch. One of the main arguments in favour of this heater is that the automatic gas valve will work with a water head as low as 5 ft., which means that it can be used on an upper floor with the normal supply from the tank in the roof. Several other heaters need a head of 10 feet or so, and on an upper floor this often means that the supply has to be taken from the mains, which sometimes involves complications with the water company.

Fixing is quite simple, and the cover lifts off in one piece for maintenance purposes. Normal finish is cream enamel, but other colours can be supplied. Control is by a single gas-tap, and there is the now usual bi-metal strip controlling the main gas valve so that the supply will not reach the burner unless the pilot is on. (Ranalal, Ltd., 5, Queen Anne's Gate, London, S.W.1.)

### ELECTRONIC COOKERS

Most of us have by now become immunised against the rather garbled versions of high-pressure American salesmanship which appear in our daily papers. But quite a number of papers which ought to know better have been talking about the wonders of the electronic cooker and painted all too rosy pictures of Sunday joints cooked to perfection in a matter of seconds. So far as I have been able to discover, the facts are as follows.

Electronic (or high frequency) heating involves transformers and fairly elaborate and expensive equipment. The frequencies involved may approach ordinary radio frequencies, and therefore, under GPO regu-

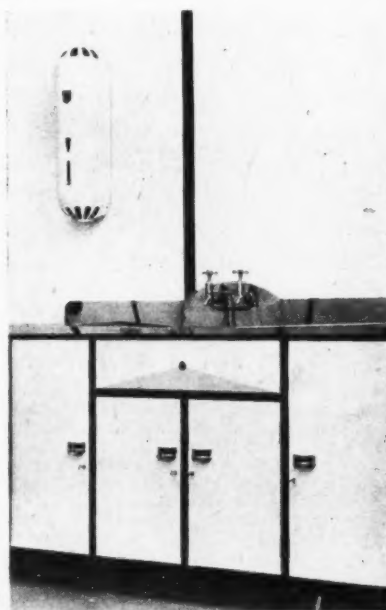
lations, the whole cooker will have to be electrically screened, since it will otherwise act as a transmitting station. The actual cooking may be quite satisfactory for substances of fairly uniform composition, but the structure of the ordinary joint, with muscles, fats, bones and whatnots will almost certainly not cook uniformly, and some parts will be charred while others remain raw. A certain amount of large scale electronic cooking has been done in the States, but without any very great success. The whole essence of electronic heating is that the heat is applied at once right through the whole substance of the material, as against the normal slow penetration from the outside. Bread, therefore, will have no crust, and American bakers have found that a supplementary cooking process is essential or the public will not buy the bread.

Clients who make tentative inquiries about these things may therefore be told (a) that they would be expensive and somewhat unsatisfactory, (b) that they are at least five years away, probably ten.

### BATH OUTPUT

Twelve months or more ago it was generally prophesied that there would be a great shortage of baths owing to lack of foundry capacity. A recent visit to the factory of the British Bath Company at Greenford showed, however, that output has been very considerably stepped up since the end of the European war, for production is now at the rate of 2,000 a week, a figure which it was not expected to reach until July, though the maximum capacity of the factory, given adequate labour and equipment, should be something like 2,500. The present figures have been achieved partly by very full mechanisation of the various processes—mechanical sandlingers are used in the moulding section—but also by a reduction in the number of different types made. Before the war there were something like five hundred different models and this figure has now been reduced to six.

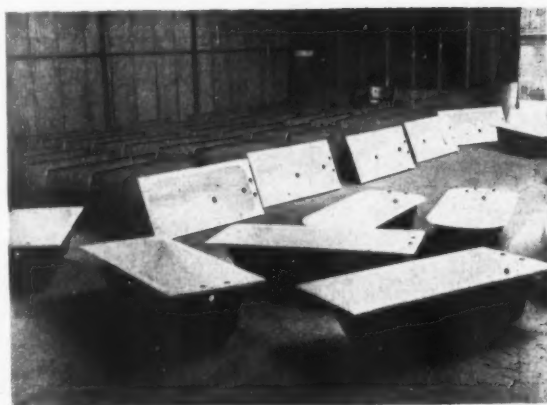
The vitreous enamelling section is no longer a bottleneck for wartime research has shown that most of the essential raw materials can be found in this country, and at present only the borax has to be imported. Dealing with the question of total output, the bath industry as a whole claims to be able to supply the full needs of the building programme without increasing factory space. It is interesting to note, however, that Allied Ironfounders have formed a subsidiary,



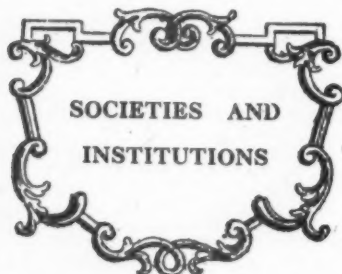
A new water heater by Ranalal.



*Baths at the British Bath Company's Factory at Greenford, where production has been stepped up to 2,000 a week. The bath industry as a whole claims to be able to supply the full needs of the building programme without increasing factory space.*



Allied Steel Pressings, Ltd., which will make pressed steel baths. This potential output should be able to deal with an expanded building programme and is also an attempt to help the export drive, since before the war there was a considerable market for baths of this type which was supplied by the French manufacturers. For export, of course, the pressed steel type is very light and is easier to pack than the cast bath. (Allied Ironfounders, Ltd., Mortimer House, 37, Mortimer Street, London, W.1.)



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

## RIBA

### New Members

*As Fellows (16):*—Bailey, Arthur, O.B.E. (London); Bankart, Hugh Charles (Bath); Barrington-Baker, James (London); Beecher, David, M.A. (Oxford); Bramhill, Harold (London); Forster, Edward (London); Holt, Arthur Neville, DIP.ARCH. (Liverpool); Kemp, Leslie Hagger (London); Scott (Miss), Elisabeth Whitworth, A.A.DIPL. (Bournemouth); Shapley, Ronald Stuart, DIP.ARCH. LEEDS (Leeds); Smith, Arthur Llewellyn, M.B.E., B.A. (OXON.) (London); Fisher, Ewart William, J.P. (London); Baillon, Louis Brabazon (Northampton); Mills, Edward David

William (London). *Overseas:*—Hughes (Mrs.), Eugenie Dorothy (Nairobi); Mansfield, John Leslie Stephen (Capt. R.A.E.), B.A.R.C.H. (Sydney, New South Wales); Narwekar, Shridhar Jayaram (Bombay); Arthur, Professor Eric Ross, M.A., B.A.R.C.H. (Toronto).

*As Associates (67):*—Allingham, Patric Henry Lomax (Bartlett School of Architecture, University of London) (Pinkneys Green, East Berkshire); Ball, William Kenneth, M.B.E. (Salford, Lancs.); Barr, Thomas (Elderslie, Scotland); Bell, John Thornton (Major) (Wellsbury, Bath); Bickerdike, John Buckley (Watford, Herts.); Bruce, Albert Henry (Shirley, Surrey); Bundy, Kenneth Douglas (Sutton, Surrey); Butterworth, Richard (Polytechnic, Regent Street, London) (London); Campbell, Noel Evan (Bangor, Co. Down); Clink, Stuart (Wormit, Fife); Cowan, Donald (Polytechnic, Regent Street, London) (Chigwell, Essex); Craven, Edward (Worcester); Davidson, John William (Capt. R.E.) (Sheffield); Dawson, David Wilberforce Kwami (Manchester); Forrest, John Bernard (Polytechnic, Regent Street, London) (Cuffley, Herts.); Frith, Norman Lawrence, P.A.S.I. (London); Giles, Frank Alan (Hindhead, Surrey); Gill, William Henry (Bath, Somerset); Glover (Miss), Norah Rosalie (Polytechnic, Regent Street, London) (Gerrards Cross, Bucks.); Grey, Percy (London); Hall, Dudley Radcliffe (Gateshead, Co. Durham); Harmsworth, Brian Humphrey, DIP.ARCH. (Polytechnic, Regent Street, London) (Horsham, Sussex); Hartley, Harold (Biggleswade, Beds.); Herne, Ivor Arthur Chasemore (Bartlett School of Architecture, University of London) (Weybridge, Surrey); Hodgson, Albert (Bushey, Herts.); Hoskins, George Robert Stewart (Pensby, Wirral); Howles, Leslie Alfred (Streethy, Staffs.); Huggett, Bernard William (Ruislip, Middlesex); Jenner, Herbert Eustace (London); Jones, Cyril Albert (London); Kennedy, Charles Victor Kitchener (Saltash, Cornwall); Kent (Miss), Irene (Polytechnic, Regent Street, London) (Welwyn Garden City, Herts.); King, Kenneth Standish (F./Lt. R.A.F.) (Architectural Association, London) (St. Albans, Herts.); Lane, Ronald Josiah (Exeter); Leyshon, Sydney (Major R.E.) (Llantarnam, Mon.); Maguire, John Francis (University College, Dublin) (Dublin); Masson, John (Aberdeen School of Architecture, Robert Gordon's Technical College) (London); Mellor, Raymond Walter (Blackpool); Nicol, John (London); O'Herlihy, Daniel Peter, B.A.R.C.H. (University College, Dublin) (Glenageary, Co. Dublin); Osmond (Miss), Barbara Joan (Polytechnic, Regent Street, London) (Stoke Poges, Bucks.); Parsons, Anthony Leslie (London); Peachey, Norman Alfred (London); Ramsbottom, Roy (Bolton, Lancs.); Reed, Richard Ernest (London); Rowe, Colin Frederick, B.A.R.C.H. (Liverpool School of Architecture, University of Liverpool) (London); Simpson, John William (Newcastle-upon-Tyne); Stott, Leslie Gainsford (Brighton); Sutherland, Robert (Glasgow School of Architecture) (Glasgow); Sutton, Hugh Arthur (Hoylake, Cheshire); Taylor, Alexander Brunton (St. Andrews,

Fife); Tritton, Miss Freda Molly, DIP.ARCH. (Polytechnic, Regent Street, London) (London); White, Frank Silvester (Lt.-Col.) (Ilkeston, Derbyshire); White, Ralph Barton (Watford); Williams, Leonard Percy (London); Wilson, Ronald Charles, DIP.ARCH. (Polytechnic, Regent Street, London) (London); Cowell, Edward William (Major) (Kettering); Curran, Michael John (Kilkenny, Eire); Good, Arthur Bernard Vaughan (London); Matthews, Albert Edward (Capt. R.E.) (East Croydon). *Overseas:*—Burgess, Eric Luther (F./Lt.), B.A.R.C.H. (McGill University, Montreal, Canada) (Ottawa, Canada); Jackson (Miss), Joan Muriel (Sydney, New South Wales); Pynor, Henry (Sydney, New South Wales); Robertson (Miss), Gwendolyn Howard (Artarmon, New South Wales); Bolot, Aaron (Kingsford, NSW); McKenzie, Gordon Alexander (Kingsford, NSW); McKenzie, Malcolm Harrington, B.A.R.C.H. (Auckland).

*As Licentiates (41):*—Absolon, Raymond George (London); Banting, Edgar (London); Brash, Sydney Morrison (Hull); Cheesman, Kenneth (London); Collis, Norman Arthur (London); Crowe, Cecil John (London); Dodson, Stanley Edward (Peterborough); Edwards, Sidney Roy (Plymouth, Devon); Errington, Charles Humphrey (Newcastle-upon-Tyne); Evans, Reginald James (Plymouth); Glendinning, John (Edinburgh); Harvey, James MacGregor (Edinburgh); Judd, George William (Reading); Kelly, James William Davis (Leavesden, Herts.); Knopp, George Aubrey (London); Mather, Edward William (London); Morley, Norman Eyre, D.S.C. (Commander R.N.V.R.) (Alton, Hampshire); Ross, Basil Armstrong (Newcastle-upon-Tyne); Rowe, Watson (Huddersfield); Rowlinson, Leonard George (Tamworth, Staffs.); Turner, James Edgar (Birmingham); Wiltshire, Walter Eric (London); Beaumont, Edmund Alfred (London); Eglinton, Ronald Wollstein (Kingston-upon-Thames); Frankish, Alfred (South Harrow); Hallam, William Herbert (London); Holmes, Eric (London); Hooper, William Thomas (Twickenham); Hughes, Godfrey William, M.B.E. (Major R.E.) (Aylesbury); Johnson, Christopher (Richmond, Yorks.); Kingham, Henry (Major) (Kirkcaldy); Kinloch, William (Kingston-on-Spey, Morayshire); Kirsop-Webb, John (Wallington); Ledbury, Bert (Manchester); Manson, John Wellwood (Bearsden, Dumbartonshire); Marchant, George William (Bristol); Moore, Frank Edward (Bebington, Cheshire); Payne, Henry George (Capt. R.E.) (Bromley); Petch, Cecil Ernest (Capt. R.E.) (Keymer, Sussex); White, Richard Clavell Luke (Leicester); Williamson, Henry Rothead (Musselburgh, Midlothian).

## Announcements

Mr. J. Roland Sidwell, A.R.I.B.A., A.I.A.A. AND S., is starting practice at 27, Union Street, Coventry, as from June 1, and would welcome up-to-date trade catalogues and technical data, etc. He was a Senior Assistant in the City Architect's Dept., Coventry.

Mr. Harold G. Davies, F.N.Z.I.A., and Mr. H. Eric Phillips, A.R.I.B.A. (LOND.), A.N.Z.I.A., have been joined in their architectural practice at Hastings by Mr. Sidney G. Chaplin, A.R.I.B.A. (LOND.), A.N.Z.I.A., who has recently returned from war service overseas. The practice will be carried on in co-partnership under the firm name of Davies, Phillips and Chaplin, at Mason's Buildings, Heretaunga Street, Hastings, N.Z.

Mr. Raymond Pidgeon, L.R.I.B.A., has taken Mr. Ronald Demuth, M.A., L.R.I.B.A., into architectural partnership. The firm, under the title of Pidgeon and Demuth, will continue to practise at 37, Great James Street, Bedford Row, W.C.1. Holborn 9060.

Mr. John Hepburn has acquired a substantial capital holding in the firm of Musgrave & Co., Ltd., St. Ann's Ironworks

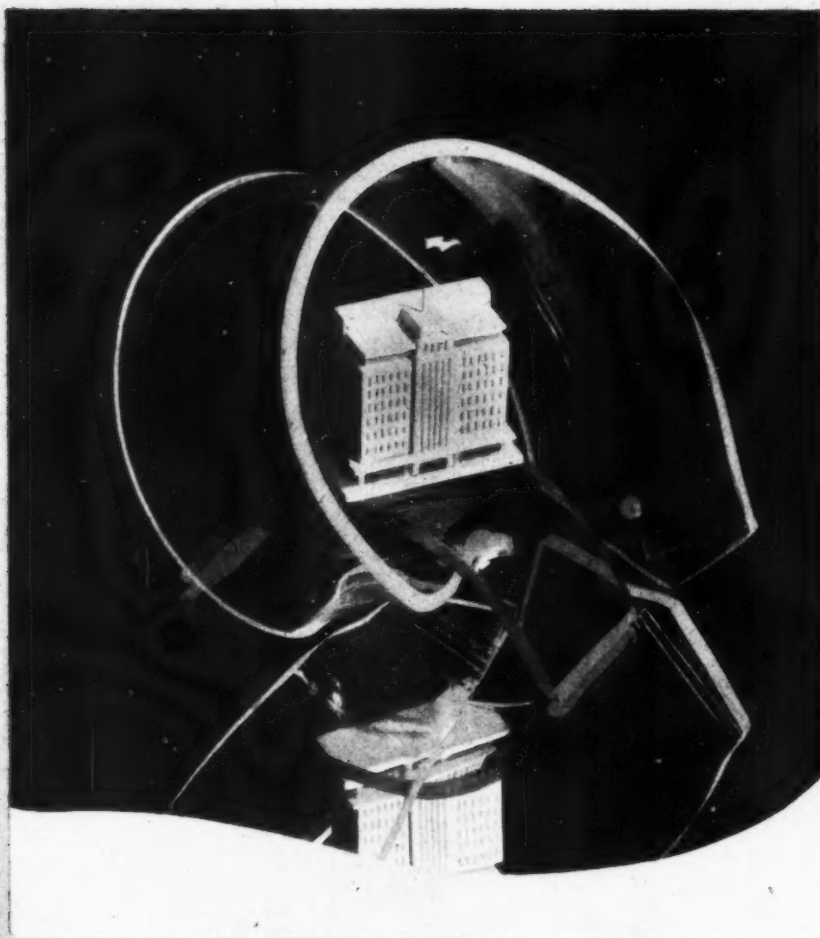
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ADDRESS .....

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A.J. 6.6.46

Belfast, and has subsequently resigned from the Directorate of Davidson & Co., Ltd., Sirocco Engineering Works, Belfast. It is also announced that Mr. S. E. Innes has resigned his position with the Board of Trade in order to join the Board of Musgrave & Co., Ltd.

S/Ldr. J. W. Buchanan, F.R.I.B.A., A.M.T.P.I., and Major H. G. Coulter, M.B.E., M.C., A.R.I.B.A., have since their release from the Forces entered into partnership as architects at the following address:—Buchanan and Coulter, F/A.R.I.B.A., 5, Bedford Row, London, W.C.1. Tel. Chancery 7881.

Mr. B. I. Briggs, A.R.I.B.A., Chartered Architect, has resumed practice at the Town Hall, Gt. Dunmow, Essex, and would be glad to receive trade catalogues, etc.

Mr. R. P. Page, A.R.I.B.A., of Abberton Manor and Frinton-on-Sea, has opened an office at 47, North Hill, Colchester. Copies of trade catalogues will be appreciated.

The Minister of Town and Country Planning (Mr. Lewis Silkin) has agreed to the release, at the request of his firm, of Mr. H. W. Wells, the Chief Estate Officer in the Ministry. Mr. Wells is now rejoining Messrs. Chesterton & Son, of which firm he is a partner.

Messrs. Davis, Belfield & Everest, Chartered Quantity Surveyors, of 9, Ashley Place, London, S.W.1, have taken into partnership Mr. S. F. Mill, M.B.E., P.A.S.I., who has recently been released from H.M. Forces.

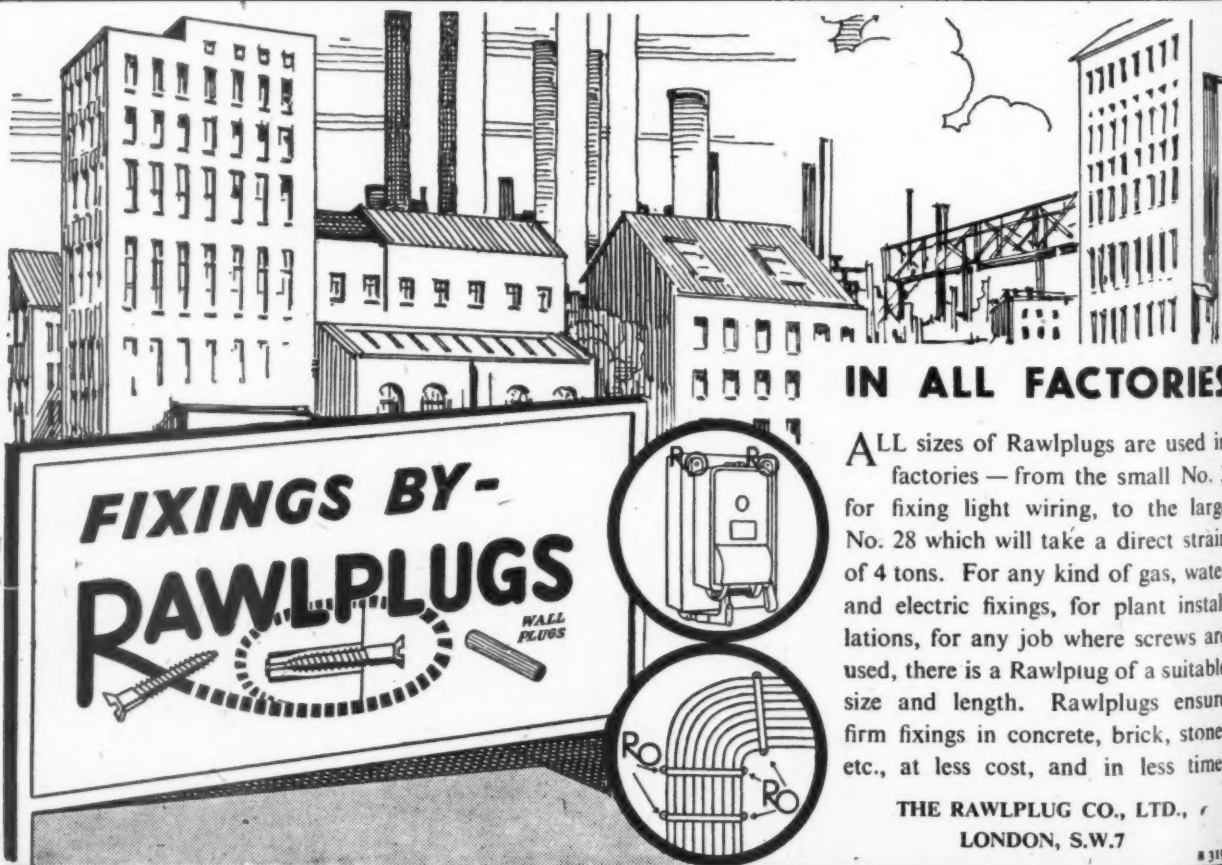
Mr. G. W. Hughes, M.B.E., L.R.I.B.A., Architect and Surveyor, has now been demobilized from the Royal Engineers and reopened his practice at National Provincial Bank Chambers, 21, High Street, Aylesbury, Bucks. Trade catalogues and technical information would be appreciated.

Messrs. J. Stanley Beard & Bennett, 101/103, Baker Street, W.1, have taken into partnership their Chief Assistant, Mr. A. J. Hale, L.R.I.B.A.

Messrs. John Fraser & Son, A.R.I.B.A., architects and surveyors, have moved to 11, Maygate, Dunfermline, Fife.

Mr. Ernő Goldfinger, D.P.L.G., and Mr. Colin Penn, A.R.I.B.A., have entered into partnership and will carry on business as architects and town planning consultants under the name of Goldfinger & Penn, 69-70, Piccadilly, W. 1. Tel.: Regent 5210.

The Ministry of Works has issued the following notes on the Distribution of Building Materials. A scheme has been introduced to guide supplies of building materials and components, through normal trade channels, to housing and other construction work of equal priority. Under the scheme, supplies that are available when priority demands have been met may be distributed to non-priority work. While materials are scarce certain types of work must be curtailed and unessential work must be postponed in order that greater numbers of homes may be provided. This means that small jobbing builders and others who may not be at present on priority work may find it necessary to engage in such work so long as the shortage of materials lasts. There are three classes of work for which building materials and components should be released without formality, whether or not a building licence is required. These are: (a) sanitary repairs and similar emergency work; (b) small urgent repairs to safeguard structural stability, and (c) small urgent repairs for which a Statutory Notice has been served. Distributors have been asked to meet the requirements of these classes of work from their stocks. Arrangements have also been made for distributors to receive priority for the replacement of stocks supplied for these purposes.



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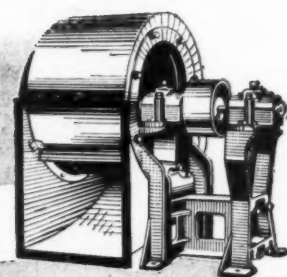


# CYCLONE

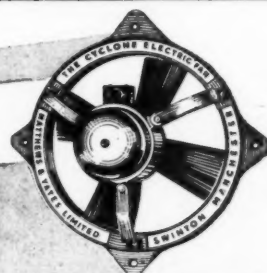
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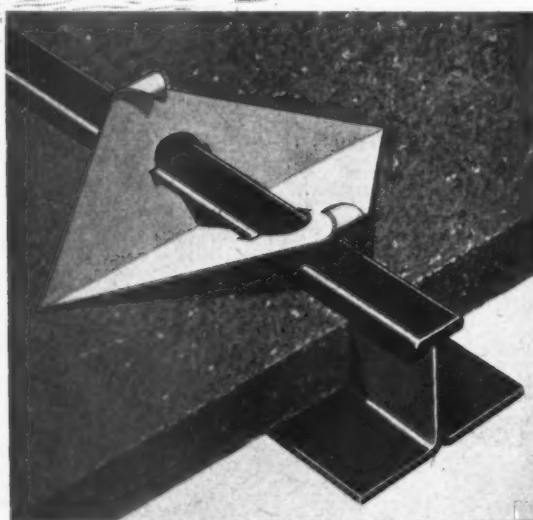


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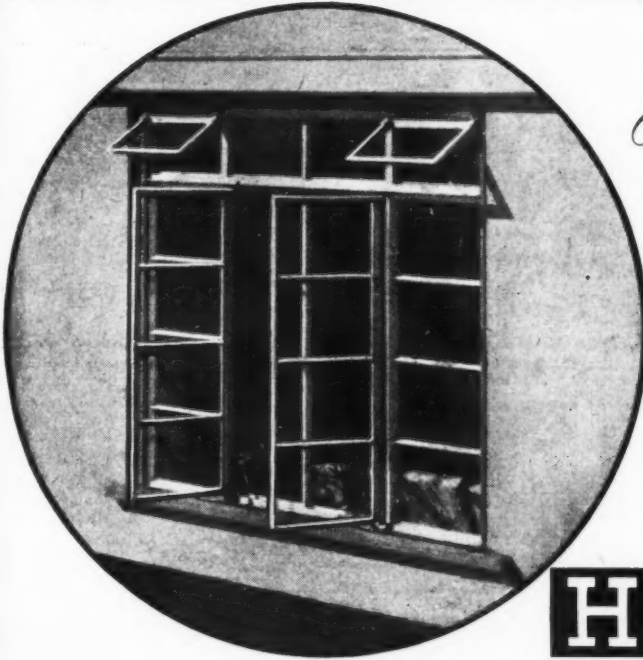
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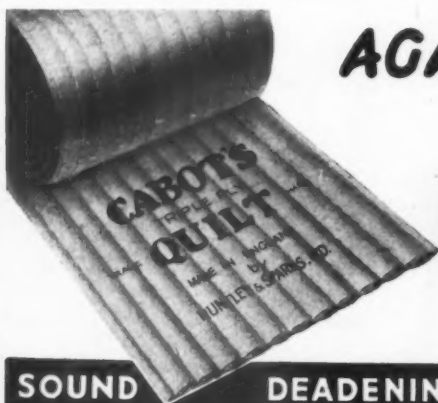
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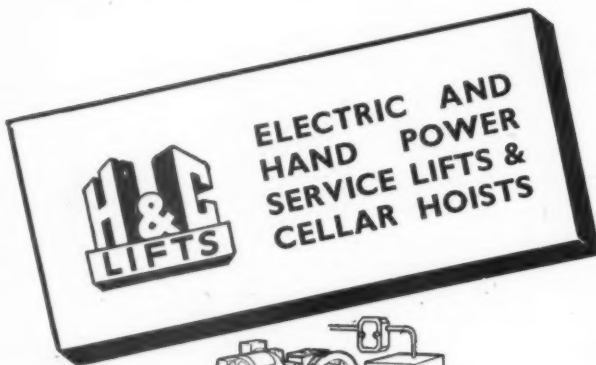
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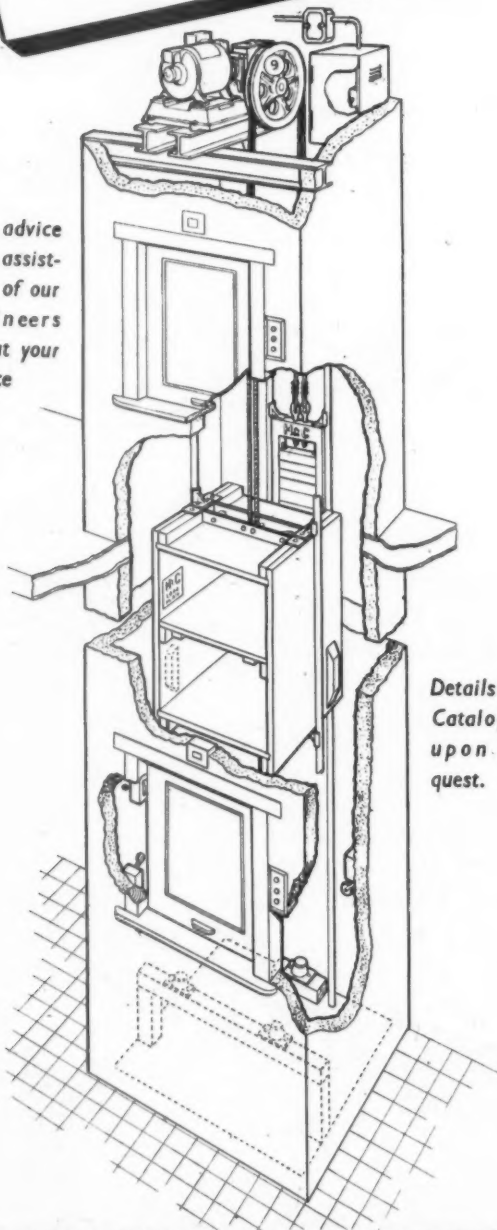
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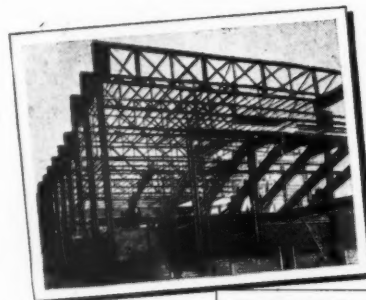
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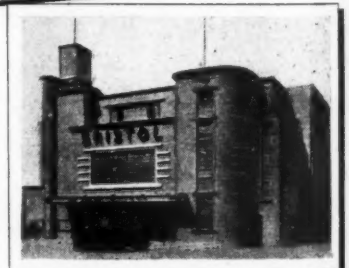
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## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

## Public and Official Announcements

Six lines or under, 10s., each additional line, 1s. 6d.

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Euron Place, London, S.W.1. Tel.: SLOANE 5615. 931

## CAERNARVONSHIRE JOINT PLANNING COMMITTEE.

Applications are invited for the following permanent appointments:—

(a) SENIOR PLANNING ASSISTANT, generally experienced in the preparation of planning schemes and the control of interim development, with Town Planning or Architectural qualifications, at a salary of £420 p.a., rising to £465 p.a. by annual increments of £15, plus war bonus.

(b) DRAUGHTSMAN, with experience in architectural design and preparation of maps and drawings, at a salary of £315 p.a., rising to £360 by annual increments of £15, plus war bonus.

(c) DRAUGHTSMAN, with experience in the preparation of maps and drawings, at a salary of £255 p.a., rising to £300 by annual increments of £15, plus war bonus.

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

Applications, stating age, past and present appointments, details of experience and qualifications, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than Saturday, the 15th June, 1946.

GWILYM T. JONES,

Clerk of the Joint Planning Committee.  
County Offices, Caernarvon.  
17th May, 1946. 748

## CITY AND COUNTY OF CANTERBURY.

## APPOINTMENT OF SENIOR TOWN PLANNING ASSISTANT.

Applications are invited for the position of Senior Town Planning Assistant in the office of the City Surveyor.

Applicants must have passed the final examination of the Town Planning Joint Examination Board, and be fully experienced in the preparation and administration of Town Planning Schemes.

The salary scale is £460, rising by two annual increments of £15 and a final increment of £20 to a maximum of £510 a year, plus cost-of-living bonus (at present £59 16s.).

The appointment is to the permanent staff, is subject to one month's notice on either side, and to a medical examination.

Applications, endorsed "Senior Town Planning Assistant," giving age, full particulars of experience and qualifications, and the names of three persons to whom reference may be made, should be received by Mr. H. M. Enderby, O.B.E., M.Inst.C. & Cy.E., City Surveyor and Planning Officer, not later than 22nd June, 1946.

J. BOYLE,

Town Clerk.  
Municipal Buildings, Canterbury.  
6th April, 1946. 751

## CITY OF OXFORD EDUCATION COMMITTEE.

## SCHOOLS OF TECHNOLOGY, ART AND COMMERCE: SCHOOL OF ARCHITECTURE AND BUILDING.

Applications are invited for the post of FULL-TIME TEACHER OF BUILDING SCIENCE, MATHEMATICS AND GEOMETRY, for National Certificate and Craft Courses in the Building Trades. Ability to teach Technical Drawing and some Building Construction will be an additional qualification.

The post is newly created to meet expansion, and is permanent, dating from 1st September, 1946. Salary will be paid in accordance with the Burnham (Technical) Report.

Forms of application and further particulars may be obtained on receipt of a stamped addressed foolscap envelope from the Chief Education Officer, 77, George Street, Oxford, to whom completed forms must be returned as soon as possible, and in any case not later than a fortnight from the date of the appearance of this advertisement. 794

## BOROUGH OF LEOMINSTER.

The Leominster Borough Council desire to appoint an ARCHITECT to prepare Plans, Specifications, etc., in connection with their Housing Programme.

Persons or Firms willing and able to carry out this work are invited to submit their names and addresses to the Town Clerk, Grange Court, Leominster, not later than the end of June, 1946. 788

## CHICHESTER RURAL DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

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

(a) QUANTITY SURVEYOR. Commencing salary £500 per annum, plus war bonus, at present £59 16s. Applicants must have had considerable experience in the preparation of bills of quantities and contract documents, and preference will be given to Chartered Quantity Surveyors.

(b) JUNIOR ENGINEERING ASSISTANT. Commencing salary £360 × £15 to £405 per annum, plus war bonus, at present £59 16s. Applicants should be members of the Institution of Municipal and County Engineers, or the Chartered Surveyors' Institution, and must have had experience in water supply and sewerage schemes and the construction of housing estate roads and small sewage disposal plants.

The appointments, which are of a temporary nature, with probable duration of four years, will be subject to the Local Government and Other Officers' Superannuation Acts and the Council's sick pay scheme.

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

Applications, appropriately endorsed, stating age, qualifications, present position and experience, accompanied by copies of three recent testimonials, must reach the undersigned not later than the 22nd June, 1946.

LEONARD BAILEY,

Clerk to the Council.  
Pallant House, Chichester.  
27th May, 1946. 796

## WARWICKSHIRE COUNTY COUNCIL.

Applications are invited for the following appointments:—

(a) SENIOR PLANNING ASSISTANT. Salary at the rate of £535 per annum, rising by two annual increments of £20, and one of £25, to £600 per annum.

(b) TWO SENIOR PLANNING ASSISTANTS. Salary at the rate of £480 per annum, rising by one increment of £25 and one increment of £20 to £525 per annum.

(c) FOUR PLANNING ASSISTANTS. Salary at the rate of £420 per annum, rising by two annual increments of £20 to £460 per annum.

In addition to the basic salaries stated, a cost-of-living bonus at the rate of £59 16s. per annum is at present paid by the County Council. The appointments are subject to the production of a medical certificate in an approved form and to the provisions of the Local Government Superannuation Act, 1937.

Applicants for appointment (a) must have had considerable experience in the planning problems to be dealt with in built-up areas, and also of advising interim development authorities on applications received. Applicants should also have had wide experience in the preparation of planning schemes and possess a comprehensive knowledge of the various Acts and Orders controlling and affecting building development.

Applicants for one of the appointments (b) should have had considerable experience of the preparation of planning schemes in areas of scenic beauty and of interim development administration in such areas.

Applicants for the other appointment (b) should have had experience in planning research work, and in the collection and analysis of survey material necessary to the preparation of planning schemes for built-up and rural areas.

Applicants for appointments (c) should have had sound practical planning experience in the preparation of schemes, and in the collection of survey material.

Preference will, in all cases, be given to persons who, in addition to being Members or Associate Members of the Town Planning Institute, hold other suitable professional qualifications. It will be an advantage if applicants have had previous experience with an Executive Joint Planning Committee.

Applications, endorsed "Planning Assistant (a), (b), or (c)," stating age, qualifications, technical training, and practical experience, should be accompanied by copies of three recent testimonials, and should be delivered to Mr. David Watson, A.M.Inst.C.E., County Surveyor, Shire Hall, Warwick, not later than Monday, 23rd June, 1946.

In the case of Servicemen overseas, responsible persons in the planning profession may be named as referees in lieu of the submission of written testimonials, if these are unobtainable within the prescribed time.

L. EDGAR STEPHENS,

Clerk to the Council.  
Shire Hall, Warwick.  
25th May, 1946. 810

## CITY OF NOTTINGHAM.

## ARCHITECTURAL ASSISTANT—HOUSING ARCHITECT'S DEPT.

Applications are invited for the appointment of an Architectural Assistant in the Housing Architect's Department, at a salary of £350, rising to £450 by annual increments of £25, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates should have had considerable experience of housing work under a Local Authority, and preference will be given to an Associate of the R.I.B.A.

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

Applications, stating age and experience, together with copies of three recent testimonials, to be delivered to the undersigned and endorsed "Architectural Assistant, Housing Department," not later than the 19th day of June, 1946.

J. E. RICHARDS,

Town Clerk.  
The Guildhall, Nottingham. 760

## CITY OF BIRMINGHAM EDUCATION COMMITTEE.

## BIRMINGHAM CENTRAL TECHNICAL COLLEGE, SUFFOLK STREET, 1.

## DEPARTMENT OF BUILDING AND STRUCTURAL ENGINEERING.

Applications are invited for the full-time appointment as ASSISTANT TEACHER OF BUILDING CONSTRUCTION and associated subjects. Salary will be in accordance with the new Burnham Technical Scale. Basic scale: £300—£15—£25. Additions to the scale may be given for academic or professional qualifications, and the commencing salary will depend upon professional or industrial experience.

Applicants should preferably be Associates of the R.I.B.A., with good professional experience.

Conditions of appointment and form of application may be obtained from the College on receipt of stamped, addressed, foolscap envelope.

The last day for receipt of applications is 29th June, 1946.

E. L. RUSSELL,

Chief Education Officer.  
824

## BERKHAMSTED AND TRING JOINT PLANNING COMMITTEE.

## APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the appointment of a Planning Assistant. Salary £385 by £15 to £430 per annum, plus such war bonus as may from time to time be payable (at present £59 16s.).

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

The applicants should have had experience in planning and in the administration of interim development, should be expeditious surveyors and neat draughtsmen, and should hold the Testamur of the Institution of Municipal and County Engineers, or be Associate Members of the Town Planning Institute.

Applications, stating age, qualifications, and experience, with copies of not more than three recent testimonials, endorsed "Planning Assistant," should reach the undersigned not later than first post on Friday, the 21st June, 1946.

Canvassing will disqualify. Applicants must disclose in writing any relationship to any member or senior officer of the Council.

D. T. THORNE,

Clerk of the Joint Planning Committee.  
Civic Centre, Berkhamsted, Herts.  
24th May, 1946. 792

## HERNE BAY URBAN DISTRICT COUNCIL.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Engineer and Surveyor's Department, at a salary in accordance with Grades II and/or III of the new National Scale (£360 × £15 to £405 and/or £390 × £15 to £435), plus cost-of-living bonus. Previous experience and qualifications will be taken into account in fixing the commencing salary.

Applicants must hold the recognized professional qualifications, and have had sound experience in architectural work in a Local Government Engineer's office.

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.

Form of application can be obtained from the undersigned, to whom applications should be delivered not later than noon on Saturday, 15th June, 1946. Canvassing in any form will disqualify.

A. H. EDWARDS,

Clerk of the Council.  
Council Offices, Herne Bay, Kent.  
24th May, 1946. 790



## URBAN DISTRICT COUNCIL OF ENFIELD.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Engineer and Surveyor.

(a) ARCHITECTURAL ASSISTANT (Grade III A.P.T.). £390-£415-£435 per annum, plus London weighting figure of £20 and war bonus of £59 16s.

(b) ARCHITECTURAL ASSISTANT (Grade II A.P.T.). £360-£385-£405 per annum, plus London weighting figure of £20 and war bonus of £59 16s.

(c) BUILDING INSPECTOR (Grade II A.P.T.). £360-£415-£405 per annum, plus London weighting figure of £20 and war bonus of £59 16s.

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

Applications, stating age, qualifications, and experience, accompanied by copies of three recent testimonials, to be delivered to the undersigned not later than Monday, the 17th June, 1946.

Candidates canvassing members of the Council or its Committees directly or indirectly will be disqualified for the appointment.

J. WARING SAINSBURY,  
Clerk of the Council.

Public Offices, Enfield.  
23rd May, 1946.

787

## COUNTY BOROUGH OF SOUTH SHIELDS.

## APPOINTMENT OF CHIEF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of Chief Assistant Quantity Surveyor in the Office of the Borough Engineer. Salary £535, rising to £600 per annum, plus war bonus.

Appointment is supernumerary, and the successful candidate must be prepared to pass a medical examination.

Candidates must have had experience in preparation of bills of quantities, estimates, and settlement of final accounts and general Building contracts; preference will be given to Professional Associates of the Chartered Surveyors' Institute.

Form of application may be obtained from the office of the Borough Engineer, Town Hall, South Shields, to whom the form should be returned in a sealed envelope endorsed "Chief Assistant Quantity Surveyor," not later than Monday, 17th June, 1946.

HAROLD AYREY,  
Town Clerk.

Town Hall, South Shields.  
May, 1946.

798

## CITY OF OXFORD EDUCATION COMMITTEE.

## SCHOOLS OF TECHNOLOGY, ART AND COMMERCE: SCHOOL OF ARCHITECTURE AND BUILDING.

Applications are invited for the post of FULL-TIME STUDIO INSTRUCTOR AND LECTURER in Architectural Construction and Materials. Applicants must be members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognized School of Architecture. Special experience and knowledge of science applied to building will be an additional qualification.

The post is newly created to meet expansion, and is permanent, dating from 1st September, 1946. Salary will be paid in accordance with the Burnham (Technical) Report.

Forms of application and further particulars may be obtained on receipt of a stamped addressed envelope from the Chief Education Officer, 77, George Street, Oxford, to whom completed forms must be returned as soon as possible, and in any case not later than a fortnight from the date of the appearance of this advertisement.

793

## STROOD RURAL DISTRICT COUNCIL.

## SENIOR TECHNICAL ASSISTANT.

Applications are invited for the above appointment from persons who have had previous municipal experience and have passed the intermediate examination of the Institute of British Architects or equivalent qualification.

Preference will be given to applicants who have had considerable experience in the layout, design, and execution of housing schemes.

The salary will be at the rate of £420, rising, subject to satisfactory service, by annual increments of £15 to a maximum of £465 per annum, plus cost-of-living bonus, amounting to £59 16s. per annum.

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

Applications must be delivered to the undersigned, accompanied by copies of three recent testimonials, not later than 17th June, 1946. Canvassing, directly or indirectly, will be disqualified.

A. E. STROUD,  
Clerk to the Council.

Council Offices, Frindsbury Hill,  
Strood, Kent.

802

## NORFOLK COUNTY COUNCIL.

## APPOINTMENT OF COUNTY PLANNING OFFICER.

Applications are invited for the post of County Planning Officer, at a salary of £1,000 per annum, rising by annual increments of £50 each to £1,200.

Practical experience in planning in urban and rural areas and Membership of the Town Planning Institute or other evidence of suitable professional qualifications are essential, and applications from members of the Armed Forces and those recently released will be considered.

The post is a new one, and the Officer appointed will be required to organize a County Planning Department, and co-ordinate planning throughout the County under the instructions of the County Planning Committee, and in co-operation with the Joint Planning Committees and Interim Development Authorities.

Office accommodation and staff will be provided by the Council, and the officer appointed will be expected to reside in or near Norwich.

The appointment will be subject to the terms of the National Scheme of Conditions of Service and the Local Government Superannuation Act. A condition of appointment will be a medical examination satisfactory to the County Medical Officer of Health.

Forms of application can be obtained from the undersigned, and applications, accompanied by copies of not more than three recent testimonials, must be sent to the Clerk of the Council, County Offices, Thorpe Road, Norwich, not later than 10 a.m. on Saturday, 22nd June, 1946.

H. OSWALD BROWN,  
Clerk of the County Council.

County Offices, Thorpe Road, Norwich.

784

## COUNTY BOROUGH OF HUDDERSFIELD.

## BOROUGH ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments on the permanent staff:

(a) SENIOR ASSISTANT ARCHITECT, at a salary of £535 per annum, rising by two annual increments of £20 and one of £25 to a maximum of £600 per annum, plus cost-of-living war bonus, at present £59 16s. per annum. Applicants should be Associates R.I.B.A., and be capable designers, able to take charge of contracts, and should have had considerable experience in Housing and the General Architectural Work of a Local Authority.

(b) TWO ASSISTANT ARCHITECTS, at a salary of £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should be Associates R.I.B.A., with experience in Housing and the General Architectural Work of a Local Authority.

(c) TWO ARCHITECTURAL ASSISTANTS, at a salary of £360 per annum, rising by three annual increments of £15 to a maximum of £405 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should be experienced in the preparation of working drawings and details, surveying and levelling.

(d) ASSISTANT QUANTITY SURVEYOR, at a salary of £330 per annum, rising by three annual increments of £15 to a maximum of £375 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should have experience in the preparation of Bills of Quantities, Specifications and Accounts, and previous municipal experience will be an advantage.

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

Applications, stating clearly which appointment is applied for, and giving full details of age, qualifications, experience, and earliest date on which applicants could take up duty, together with copies of not more than three recent testimonials; should reach the Borough Architect, High Street Buildings, Huddersfield, not later than Monday, 17th June, 1946.

Applicants in H.M. Forces may name persons to whom reference may be made in lieu of submitting testimonials.

HARRY BANN,  
Town Clerk.

Town Hall, Huddersfield.

780

## COUNTY OF WARWICK.

## ARCHITECT'S DEPARTMENT.

Applications are invited for the post of BUILDINGS ACCOUNT CLERK. Salary £330 per annum, plus cost-of-living bonus (at present £59 16s. per annum). Applicants must have had experience in the preparation or checking of builder's accounts. Applications in applicant's own handwriting, giving full particulars as to age, experience, present employment (war service if any), and accompanied by copies of not more than three testimonials, to be sent to the County Architect, Shire Hall, Warwick, on or before the 22nd June, 1946.

L. EDGAR STEPHENS,  
Clerk of the Council.

Shire Hall, Warwick.

799

## BOROUGH OF MALDEN AND COOMBE.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:

(a) QUANTITY SURVEYOR. Salary £495 per annum, rising by annual increments of £15 and £20 to £530, plus cost-of-living bonus, at present £59 16s. per annum.

(b) LICENSING OFFICER. Salary £480 per annum, rising by annual increments of £15 and £20 to £530, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants for (a) should be technically qualified quantity surveyors by examination, and accustomed to preparing bills of quantities for housing, public buildings, and architectural works generally.

Applicants for (b) should be building surveyors, with a sound knowledge of building construction, have good organizing ability, and be conversant with current regulations regarding the issue of building licences.

Both appointments are on the temporary staff for a minimum period of two years in the first instance, and are subject to one month's notice in writing on either side.

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

Applications, stating experience, age, qualifications, present and previous employment, with salaries, must be sent to the undersigned, accompanied by two recent testimonials, not later than Monday, 24th June, 1946.

HAROLD E. BARRETT,  
Town Clerk.

Municipal Offices, New Malden.  
27th May, 1946.

812

## COUNTY COUNCIL OF DURHAM.

## COUNTY ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF ASSISTANT QUANTITY SURVEYORS.

Applications are invited for the appointment of Two Assistant Quantity Surveyors, in the above Department, at a salary in accordance with Grade IV of conditions of service adopted by the National Joint Council for Local Authorities, Administrative, Professional and Technical Division, namely, £420 per annum, rising by annual increments of £15 to £465 per annum, plus cost-of-living bonus.

The candidates appointed will be required to pass a medical examination, and the appointment will be subject to the Local Government Superannuation Act, 1937, and to the regulations for the time being of the County Council relative to the payment of wages or salary in the case of sickness.

Applications, giving particulars of age, experience and qualifications, previous and present appointment, etc., and enclosing copies of not more than three recent testimonials, should be forwarded to the undersigned not later than 17th June, 1946.

WILLIAM J. MERRETT,  
County Engineer, Surveyor and Architect.

County Surveyor's Office, 43, Old Elvet,  
Durham.

29th May, 1946.

822

## COUNTY BOROUGH OF NEWPORT, MON.

## BOROUGH ARCHITECT'S DEPARTMENT.

Applicants are invited for the following permanent appointments:

(a) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Commencing salary £535 per annum, plus cost-of-living bonus £59 16s. per annum (Grade VI).

(b) ONE ASSISTANT QUANTITY SURVEYOR, at a commencing salary of £460 per annum, plus cost-of-living bonus of £59 16s. per annum (Grade V).

The salaries for the above appointments will be in accordance with the Scheme of Conditions of Service, National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applicants should have had experience in the preparation of specifications, bills of quantities, estimating, measuring, and the settlement of final accounts.

The appointments are subject to the Corporation's Conditions of Service and Superannuation Scheme, and the successful candidates will be required to pass a medical examination.

Applications, stating qualifications and accompanied by not more than three testimonials, must reach me not later than Monday, the 24th June, 1946.

JOHNSON BLACKETT, F.R.I.B.A.,  
Borough Architect.

Town Hall, Newport, Mon.  
May, 1946.

814

## PORTSMOUTH (CITY OF) EDUCATION COMMITTEE.

COLLEGE OF ARTS AND CRAFTS  
Principal: MERRIDITH W. HAWES, A.R.C.A.

## SCHOOL OF ARCHITECTURE.

Applications are invited for the post of LECTURER AND STUDIO INSTRUCTOR. Applicants should be Fellows or Associates of the Royal Institute of British Architects, preferably trained in a recognised School of Architecture, with some professional experience. Salary will be in accordance with the new Burnham Scale. Increments may be allowed for approved time spent in industry or professional work. Teaching experience would be an advantage, but is not essential. Applications should be submitted as soon as possible. Further particulars and forms of application may be obtained from The Registrar, College of Art, Guildhall Square, Portsmouth.

E. B. BARNARD, M.A.,

Chief Education Officer.

775

## SURREY COUNTY COUNCIL.

## APPOINTMENT OF CHIEF QUANTITY SURVEYOR.

Applications are invited for the appointment of Chief Quantity Surveyor. The salary will be £300 per annum, rising by annual increments of £25 to a maximum of £1,000 per annum, plus war bonus.

Applicants must be members of the Surveyors' Institution (Quantities Section), and should have a wide experience in the preparation of approximate estimates and bills of quantities, adjustment of accounts, and other works which are incidental to the position of Chief Quantity Surveyor in a Local Government Department. The successful applicant will be expected to possess tact and initiative, and be experienced in the control of staff.

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

Applications, stating age, full details of previous experience, and qualifications, accompanied by copies of three recent testimonials, and names of three referees, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than Friday, the 21st June, 1946.

DUDLEY AUKLAND,

Clerk of the Council.

774

## BOROUGH OF WATFORD.

## BOROUGH ENGINEER'S DEPARTMENT.

## APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the permanent appointment of an Assistant Architect in the Borough Engineer and Surveyor's Department.

Salary on Grade VI of the National Scale, £535 per annum, rising subject to satisfactory service to £600 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

It is anticipated that a flat would be available for the successful applicant if required.

Applicants should hold an appropriate professional examination, and must have had wide experience in architectural design and construction, especially the layout of large housing estates.

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

Applications, stating age, qualifications, present and past appointments and full details of experience, together with copies of two testimonials, must be sent to Mr. F. C. Sage, Asso. M.Inst.C.E., M.Inst.M. & C.E., Borough Engineer and Surveyor, Town Hall, Watford, not later than Thursday, 13th June, 1946, endorsed "Assistant Architect."

A. NORMAN SCHOFIELD,

Town Clerk.

Town Hall, Watford.

May, 1946.

785

## CORPORATION OF KIRKCALDY.

## BURGH ENGINEER'S DEPARTMENT.

Applications are invited for the post of CHIEF ARCHITECTURAL ASSISTANT, in the Burgh Engineer's Department. Salary £400 per annum, rising by annual increments of £25 to a maximum of £500 per annum. Cost-of-living bonus is in addition. Candidates should be Associates of the Royal Institute of British Architects. The appointment will be subject to the Corporation's Conditions of Service and Superannuation Scheme, and the selected candidate will be required to pass a medical examination. Applications, indicating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be lodged with the undersigned not later than 11.30 a.m. on 3rd July, 1946.

JOHN H. McLUSKY,

Town Clerk.

818

## COLOMBO MUNICIPAL COUNCIL.

## APPOINTMENT OF CITY ARCHITECT.

Applications are invited for the post of City Architect, Colombo Municipal Council, Ceylon.

Candidates must be Fellows of the Royal Institute of British Architects, preferably with additional academic qualifications, and should have passed the A.R.I.B.A. examination, to be eligible for appointment.

They should have had considerable experience in all branches of Municipal architectural work, and in the preparation and carrying out of Town Planning Schemes.

Salary will be Rs.10,800 × 480 × Rs. 15,000, with a travelling allowance of Rs.1,800 per annum, plus a temporary war bonus.

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

Canvassing in any form, either directly or indirectly, will disqualify.

Applications, giving age, full particulars of experience and qualifications, should be addressed to the London Agents for the Council, by whom they must be received not later than Monday, 1st July, 1946. Application papers will be forwarded to Colombo for consideration.

JOHN POOK &amp; CO.,

London Agents.

Colombo Municipal Council, 69, Fenchurch Street, London, E.C.3.

May, 1946.

804

## URBAN DISTRICT COUNCIL OF GAINSBOROUGH.

## ARCHITECTURAL ASSISTANT.

The Council invite applications for the above appointment in the Department of the Engineer and Surveyor.

Candidates must hold a recognized architectural qualification, and engineering experience will be considered an advantage.

Salary scale (basic) £390 per annum, rising subject to satisfactory service by £15 per annum to £435, plus cost-of-living bonus, at present amounting to £59 16s. per annum, the commencing basic salary to be fixed according to the qualifications and experience of the successful applicant. The Council are considering the adoption of the National Scheme of Conditions of Service.

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

Applications, stating age, qualifications, and full details of experience, together with all other essential information, and accompanied by copies of not more than three recent testimonials, should be delivered to the undersigned not later than Friday, 14th June, 1946.

Canvassing, directly or indirectly, will be a disqualification.

ERIC R. MORGAN,

Clerk of the Council.

Council Offices, Lord Street, Gainsborough.

May, 1946.

789

## HAWARDEN RURAL DISTRICT COUNCIL.

## ARCHITECTURAL ASSISTANT.

Applications are invited from persons with experience in preparation of working drawings and details, for the above position in connection with the Council's Housing Scheme.

The salary will be in accordance with the Whitley Council Scale £330, rising by increments of 15 p.a. to £375 (+ war bonus £59 16s.).

Applications, stating age and experience, together with copies of three recent testimonials, to be received by the Surveyor, Council Offices, Hawarden, near Chester, not later than 15th June, 1946. Canvassing will disqualify.

L. G. WATSON,

Clerk to the Council.

Council Offices, Hawarden, Chester.

21st May, 1946.

816

## WAREHAM AND PURBECK RURAL DISTRICT COUNCIL.

## PERMANENT APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of Architectural Assistant, at an annual salary of £330, rising by yearly increments of £15 to a maximum of £375 per annum, plus cost-of-living bonus, which at present amounts to £59 16s. per annum.

Candidates must be the holders of recognized Architectural qualifications, and be accustomed to making surveys, taking levels, preparing plans and other incidental work in connection with the Council's housing schemes. The successful candidate will work under the direction of the Council's Architect, and the appointment will be subject to one month's notice on either side.

Applications, stating age, qualifications and experience, and date on which duties can be commenced, together with copies of not more than three recent testimonials, must reach the undersigned not later than Wednesday, the 19th June, 1946.

C. DURANT-LEWIS,

Clerk of the Council.

Westport House, Wareham, Dorset.

825

EAST ELLOE RURAL DISTRICT COUNCIL.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Architects' Department.

The salary will be at the rate of £400 to £450 per annum, according to qualifications.

Applicants must be qualified Architects, and have had considerable experience in the preparations of bills of quantities, specifications, estimates and housing development, together with a thorough training in design and construction, preferably with a Local Authority.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, endorsed "Architectural Assistant," must be sent to the undersigned not later than the 18th June, 1946.

J. C. PYWELL,

Clerk to the Council.

Council Offices, Holbeach, Spalding, Lincs. 821

## TARVIN RURAL DISTRICT COUNCIL.

## TECHNICAL ASSISTANT.

Applications are invited for the appointment of (a) General Engineering, or (b) Architectural Assistant, in the office of the Engineer and Surveyor.

Applicants must have had sound training by pupillage, and had previous experience in design and construction of (a) general engineering works, or (b) building works, particularly in relation to housing. Preference will be given to persons qualified by examination (a) Institute of Municipal and County Engineers, (b) I.E.R.A.

The salary will be in accordance with Grade II (Technical Division) of the National Joint Council Scheme, *vis.*, commencing at £360, plus war bonus, at present £59 16s.

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

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be enclosed in an envelope endorsed "Technical Assistant," and must reach this office not later than the 19th June, 1946.

J. H. MOORE DUTTON,

Clerk to the Council.

Westminster Buildings, Newgate Street,

Chester.

29th May, 1946.

817

## UXBRIDGE URBAN DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the temporary staff of the Engineer and Surveyor's Department, at an inclusive salary of £8 8s. per week.

Applicants should be Registered Architects, and have had experience in the design of small dwellings.

Applications, stating age, whether married or single, examination qualifications and experience, and giving the names of three persons from whom references may be obtained, should be addressed to the undersigned in a sealed envelope endorsed "Architectural Assistant" and delivered not later than Wednesday, 19th June, 1946.

Canvassing, either directly or indirectly, will disqualify.

JOHN POOLE,

Clerk of the Council.

Council Offices, 265, High Street,

Uxbridge, Middlesex.

31st May, 1946.

823

## YEOVIL AND DISTRICT JOINT PLANNING COMMITTEE.

## TOWN PLANNING OFFICER.

Applications are invited for the appointment of a qualified Town Planning Officer to the above Committee, at a salary of £535 p.a., rising, subject to satisfactory service, by two annual increments of £20 and one of £25 to a maximum of £600 p.a., plus current war bonus (at present £59 16s. p.a.).

The successful applicant will be expected to provide a car, and a car allowance of £100 p.a. will be made.

Applicants must have had experience of Planning Schemes and be fully conversant with the Town and Country Planning Acts and Orders thereunder. Preference will be given to candidates who have passed the Associate Membership Examination of the Town Planning Institute.

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

Applications, stating age, whether married or single, qualifications, experience, etc., and endorsed "Town Planning Officer," to be sent to the undersigned, accompanied by copies of three recent testimonials, not later than Saturdays, 22nd June, 1946.

H. C. C. BATTEN,

Clerk to the Joint Committee.

Church House, Yeovil, Somerset.

17th May, 1946.

745



NEWCASTLE-UPON-TYNE EDUCATION COMMITTEE.

TECHNICAL SCHOOL OF BUILDING CRAFTS.

Wanted, for September, 1946:—  
(a) An ASSISTANT MASTER, to take Brickwork and Plastering and assist with Technical Drawing, mainly Building Geometry. Good City and Guilds qualifications, teaching experience, and experience in the building industry desirable.

(b) An ASSISTANT MASTER, to assist with Carpentry, Joinery and Metalwork. Good City and Guilds qualifications, teaching experience desirable.

(c) An ASSISTANT MASTER, to assist with Plastering and Painting and Decorating. Good City and Guilds qualifications, experience in the building industry. Some teaching experience desirable.

Burnham Scale. Prescribed form to be returned to the undersigned by 22nd June, 1946.

THOS. WALLING,  
Director of Education.

City Education Office, Northumberland Road, Newcastle-upon-Tyne, 1. 803

COUNTY BOROUGH OF DONCASTER EDUCATION COMMITTEE.

SCHOOL ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT DRAUGHTSMAN.

Applications are invited for the post of Assistant Draughtsman in the above Department, at a commencing salary of £255 per annum, rising by annual increments of £15 to £300 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

The post will be superannuable. Conditions of appointment obtainable from the undersigned on receipt of stamped addressed foolscap envelope. Applications should be submitted as soon as possible.

V. H. HOSKIN,  
Chief Education Officer.

Education Office, Doncaster. 808

WEST SUSSEX COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT HEATING AND ELECTRICAL DESIGNER-DRAUGHTSMAN (Male), in the Department of the County Architect, at a salary in accordance with Grade III in the A.P.T. Division of the scales of salaries recommended by the National Joint Council for Local Authorities. Administrative, Professional and Technical Services, namely, £390 per annum, rising by annual increments of £15 to £435 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants for the post must have had experience in the preparation of drawings and specifications for schemes of all types of buildings.

The appointment will be superannuable, and subject to one month's notice on either side, and to a medical examination.

The general conditions of service will be as recommended by the National Joint Council for Local Authorities. Administrative, Professional, Technical and Clerical Services.

Applications, stating age, qualifications and experience, and giving the names and addresses of three persons to whom reference can be made, should be forwarded to F. R. Steele, F.R.I.B.A., F.S.I., M.T.P.I., County Architect, County Hall, Chichester, endorsed "Assistant Heating and Electrical Engineer," to reach him not later than first post on the 21st June, 1946.

T. C. HAYWARD,  
Clerk of the County Council.

25th May, 1946. 806

BURGH OF GREENOCK.

APPOINTMENT OF TECHNICAL STAFF TO MASTER OF WORKS DEPARTMENT.

The Corporation of Greenock invite applications for the following positions in the Department of the Master of Works, viz.:—

(1) THREE SENIOR ARCHITECTURAL ASSISTANTS, at a commencing salary of £400 per annum, rising by annual increments of £20 to £470 per annum, plus war bonus. Applicants must be Registered Architects, and experienced in Housing and General Architectural Work.

(2) ONE JUNIOR ARCHITECTURAL ASSISTANT, at a commencing salary of £250 per annum, rising by annual increments of £15 to £325 per annum, plus war bonus. Applicants must be neat, expeditious draughtsmen, with experience in Housing and General Architectural Work.

(3) TWO SENIOR ENGINEERING ASSISTANTS, at a commencing salary of £400 per annum, rising by annual increments of £20 to £470 per annum, plus war bonus. Applicants must be Associate Members of either the Institution of Civil Engineers or the Institute of Municipal and County Engineers, and must have extensive experience in Highway Engineering and Sewerage, and in the Setting Out and Measuring of Contractors' Work.

(4) ONE SENIOR TOWN PLANNING ASSISTANT, at a commencing salary of £400 per annum, rising by annual increments of £20 to £470 per annum, plus war bonus. Applicants must have extensive experience in the preparation of a Town Planning Scheme and of the Administration of Interim Development Control, and should have a recognized Town Planning Engineering or Architectural qualification.

(5) ONE JUNIOR TOWN PLANNING ASSISTANT, at a commencing salary of £250 per annum, rising by annual increments of £15 to £325 per annum, plus war bonus. Applicant must be competent Surveyor and Leveller, and preference will be given to candidate with previous experience in the preparation of a Town Planning Scheme.

All the above appointments are upon the permanent staff of the Corporation, and are subject to one month's notice on either side. Successful applicants will be required to pass a medical examination, and to contribute to the Corporation's Superannuation Fund under the provisions of the Local Government Superannuation (Scotland) Act, 1937.

Applications, endorsed according to vacancy applied for, stating age, qualifications, experience, and accompanied by copies of not more than three recent testimonials, should be forwarded to the undersigned not later than Saturday, 15th June, 1946.

A. H. GRAY,  
Town Clerk.

Municipal Buildings, Greenock. 743

Partnerships

Six lines or under 10s.; each additional line, 1s. 6d.

HIGHLY Qualified and Experienced Civil Engineer, aged 31 (University graduate), desires Appointment or Partnership with Architect, in London area; experience includes war damage surveys, preparation of bills and estimates, etc. For further particulars apply Box 736.

F.R.I.B.A. offers Partnership to young ex-Service Architect, preferably school-trained, in small but growing practice in Nottingham; some capital required, but free services for a limited period would be accepted in lieu. Apply in confidence with full particulars to Box 795.

Tenders

Six lines or under, 10s.; each additional line, 1s. 6d.

METROPOLITAN WATER BOARD.

SUNNYSIDE PUMPING STATION, HAMPTON WORKS.

The Metropolitan Water Board invite tenders for the construction of buildings of the following descriptions and approximate dimensions:—  
Engine and Pump House: 120 ft. by 30 ft. by 40 ft.

Administrative Office: 30 ft. by 20 ft. by 30 ft.  
Administrative Office: 30 ft. by 36 ft. by 25 ft.  
Chlorinating house: 33 ft. by 20 ft. by 20 ft., together with demolition work, pipe chambers, drainage, and other contingent works at their Hampton Works, Lower Sunbury Road, Hampton, in the County of Middlesex.

Drawings, forms of tender, conditions of contract, specification and bills of quantities, may be inspected without charge at the Board's drawing office, Testing Shop, Hardwick Street (adjoining the offices of the Board, New River Head, Rosebery Avenue, E.C.1), on and after Thursday, 6th June, 1946.

Contractors desirous of tendering may obtain the necessary documents from the Chief Engineer on production of an official receipt for £10, which sum must be deposited with the Comptroller to the Board, and which will be returned on receipt of a bona fide tender accompanied by the above-named documents (with the exception of the spare copy of the bills of quantities, which may be retained by the tenderer). Such payments and applications must be made between the hours of 10 a.m. and 4 p.m. (Saturdays, 9 a.m. and 11 a.m.). Cheques must be made payable to the Metropolitan Water Board and not to individuals.

Tenders, enclosed in sealed envelopes, addressed to the Clerk of the Board, and endorsed "Tender for Sunnyside Pumping Station," must be delivered at the Offices of the Board (Room 122) not later than 12 o'clock noon on Tuesday, 2nd July, 1946.

The Board do not bind themselves to accept the lowest or any tender.

C. W. STOKER,  
Clerk of the Board.

Offices of the Board, New River Head, Rosebery Avenue, London, E.C.1. 797  
27th May, 1946.

Architectural Appointments Vacant

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

Wherever possible prospective employers are urged to give in their advertisements full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

INDUSTRIAL Design Draughtsman wanted. Apply Warnett Kennedy & Associates, 11, Bentinck Street, W.1. 688

ASSISTANT for modern Architects' Office on East Coast; housing and varied practice; progressive position and salary for suitable applicant; please send all particulars and salary required. Box 734.

QUANTITY SURVEYOR required for a staff appointment with an Industrial Organization in London; applicants must have a thorough knowledge of preparing specifications and estimates. Write, stating age and experience, to Box 742.

DOORS  
WINDOWS  
STAIRS

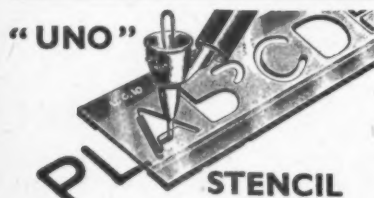
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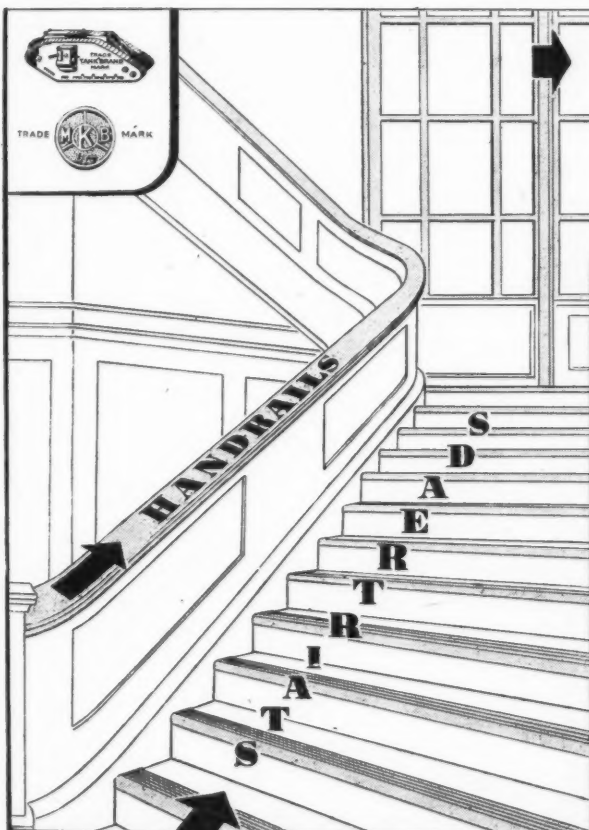
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