

THE ARCHITECTS' JOURNAL



standard contents

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

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. 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
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society, 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians, 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain, 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association, 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction, 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4.	Brixton 7048
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.	Langham 5721
AScW	Association of Scientific Workers, 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education, 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council, Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre, 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council, 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation, 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association, Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association, 10, The Boltons, S.W.10.	Flaxman 7766
BEDA	British Electrical Development Association, 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGF	British Gas Federation, 1, Grosvenor Place, S.W.1.	Sloane 8266
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
BID	Building Industries Distributors, 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council, 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade, Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station, Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association, 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution, 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition, 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society, C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Newport 3111
CAS	County Architects Society, C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Chichester 3001
CCA	Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CCP	Council for Codes of Practice, Lambeth Bridge House, S.E.1.	Reliance 7611
CDA	Copper Development Association, Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne, Dolderal, 7, Zurich, Switzerland.	
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
CUJC	Coal Utilization Joint Council, 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
CVE	Council for Visual Education, 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 1761
DIA	Design and Industries Association, 13, Suffolk Street, S.W.1.	Whitehall 0540
DOT	Department of Overseas Trade, 35, Old Queen Street, S.W.1.	Victoria 9040
EJMA	English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society, 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors, 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, 21, Tothill Street, S.W.1.	Whitehall 9696
FBI	Federation of British Industries, 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission, 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries, 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd., Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District, Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders, 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FOB 1951	Festival of Britain 1951, 2, Savoy Court, Strand, W.C.2.	Waterloo 1951
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders, 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England, 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group, 27, Grosvenor 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 5615
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
IES	Illuminating Engineering Society, 32, Victoria Street, S.W.1.	Abbey 5215

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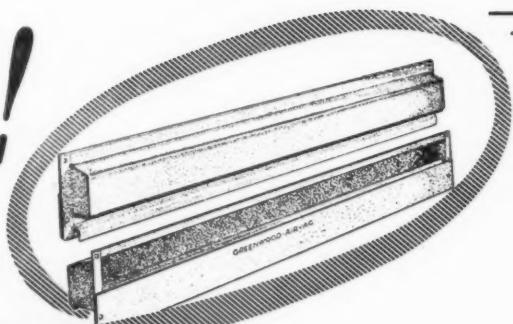
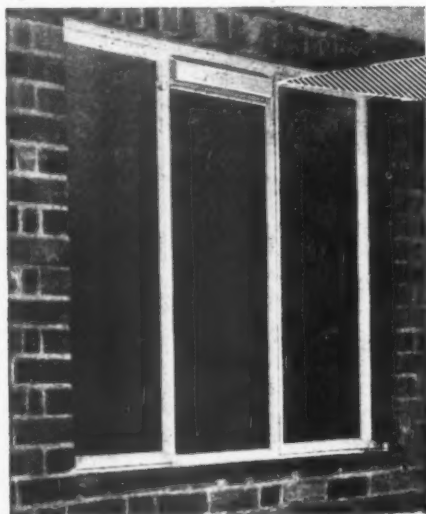
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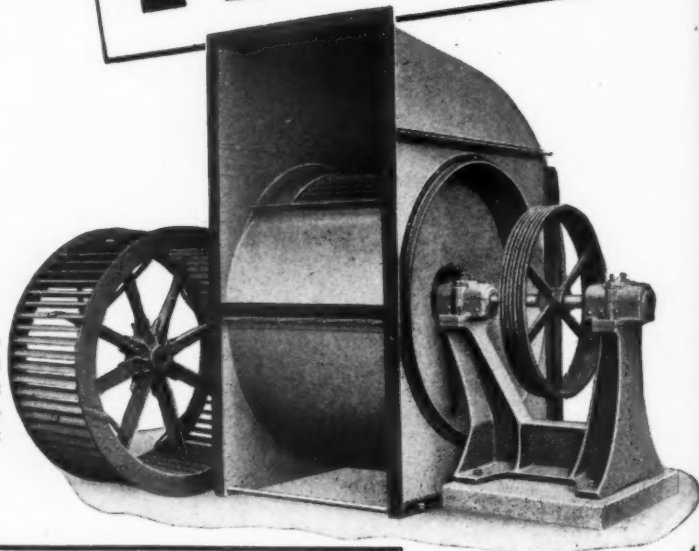
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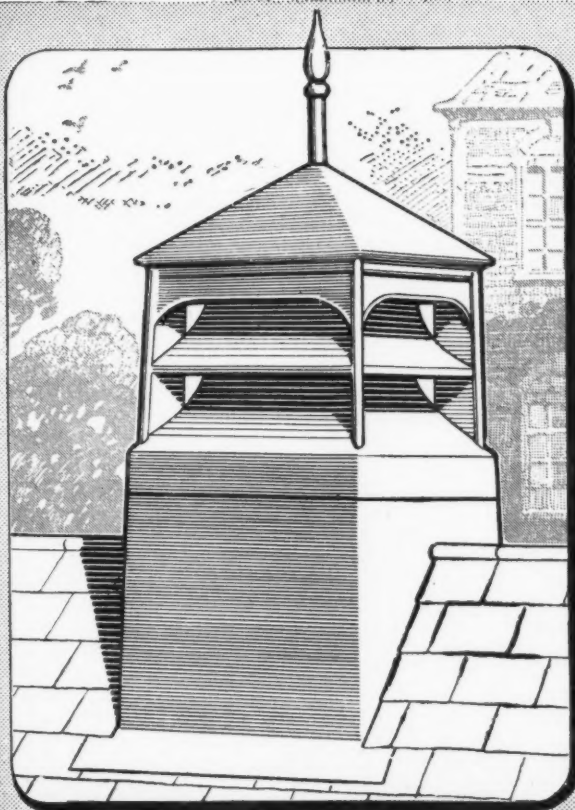


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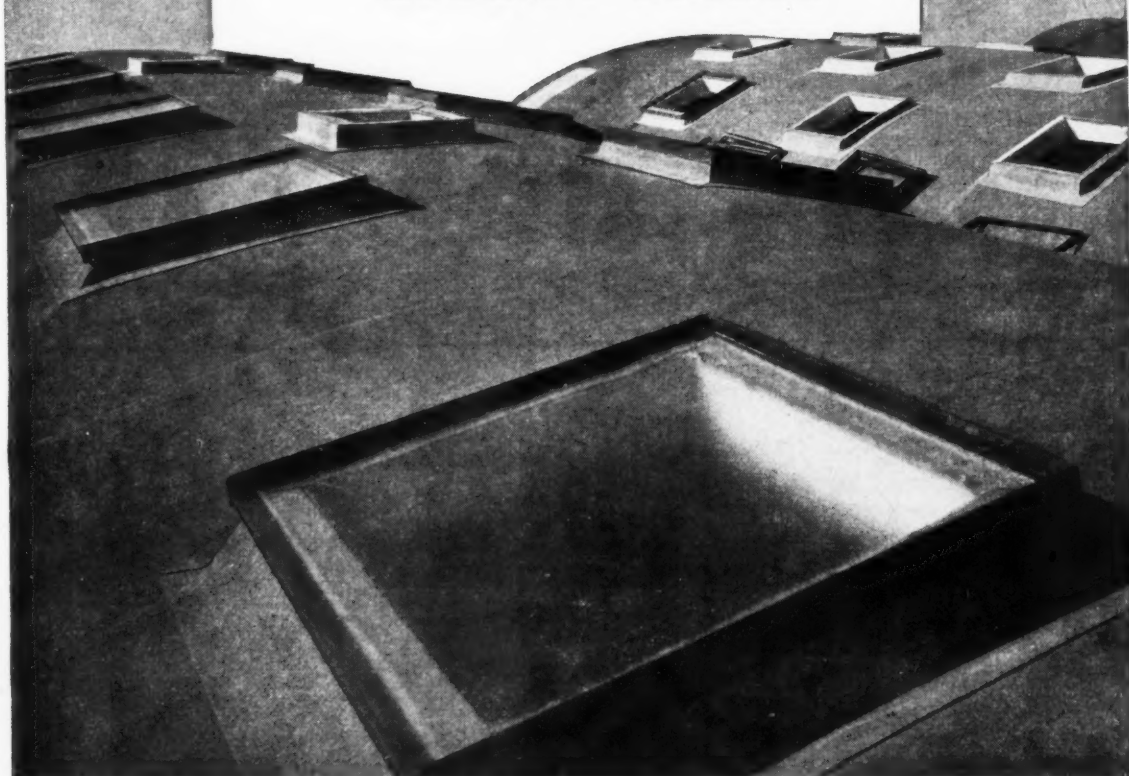
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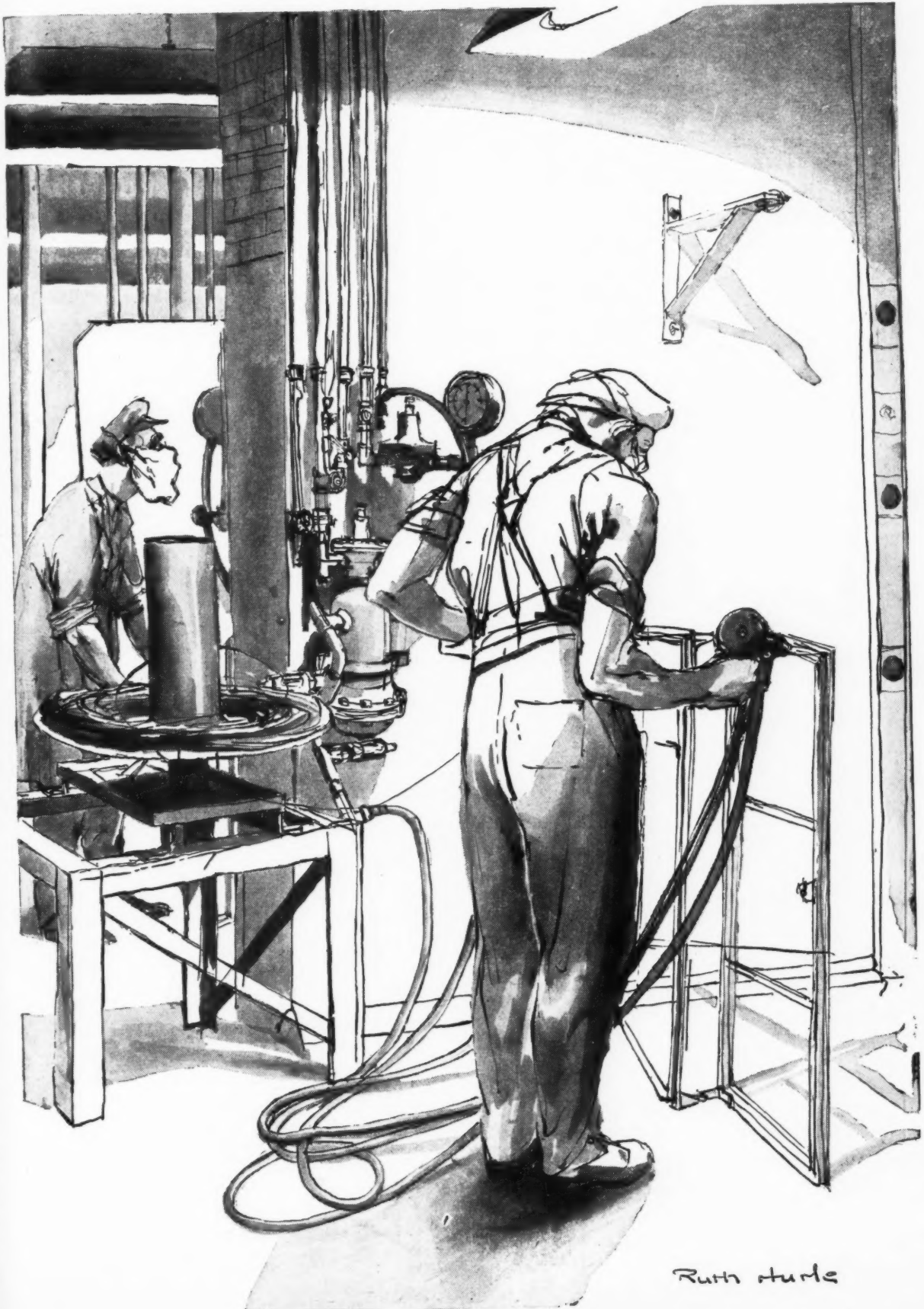
And the firm's service continues up to
the day the Architect, seeing the windows
in his building, says

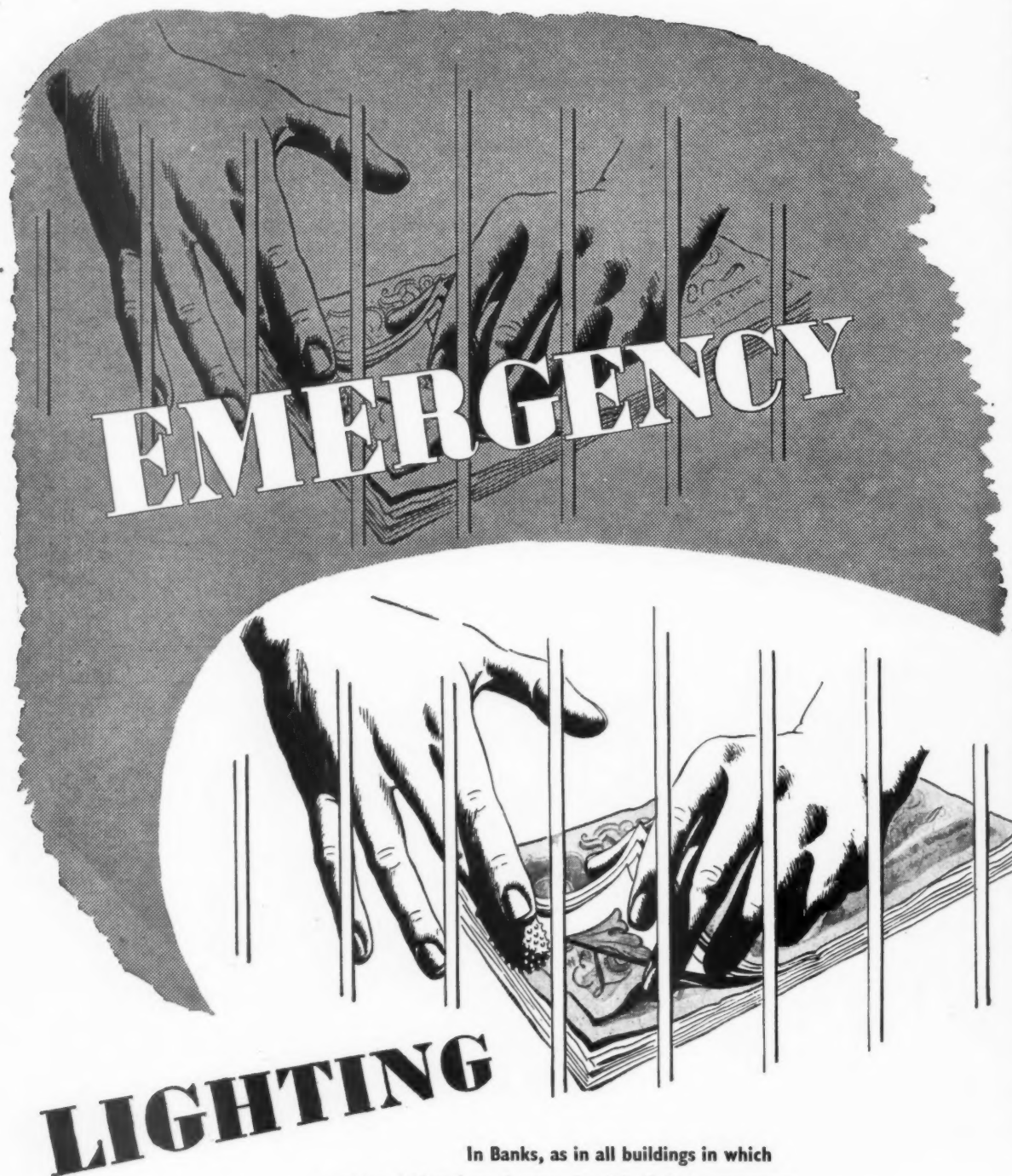
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S.45



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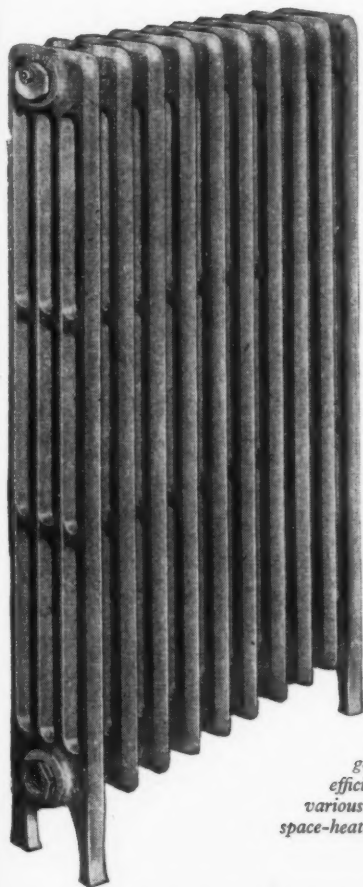
The service rendered by steelwork extends far beyond the structures of buildings and bridges. Here, for example, are welded steel tanks for storing petroleum, where the standards of leak-tightness are extremely high.

The marginal illustration, of the steelwork of a hemispherical observatory dome, shows the adaptability of steelwork even when the structure is extremely complex in shape.



B.C.S.A.

FROM THE RAW MATERIAL TO THE FINISHED ARTICLE

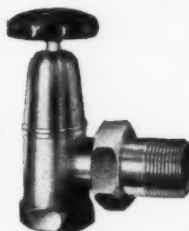


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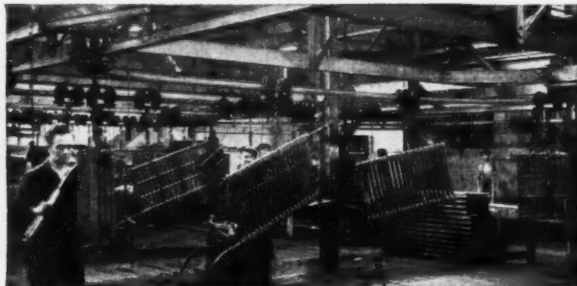
This modern design extends to every feature, including the radiator valves, of which Type No. D.201 illustrated is an excellent example. It is supplied in matt polished or chromium plated finish.



Part of the foundry in which the radiator moulds are formed. Photograph shows cores being placed in position.



General view of the shop in which cores for Crane radiators are made.

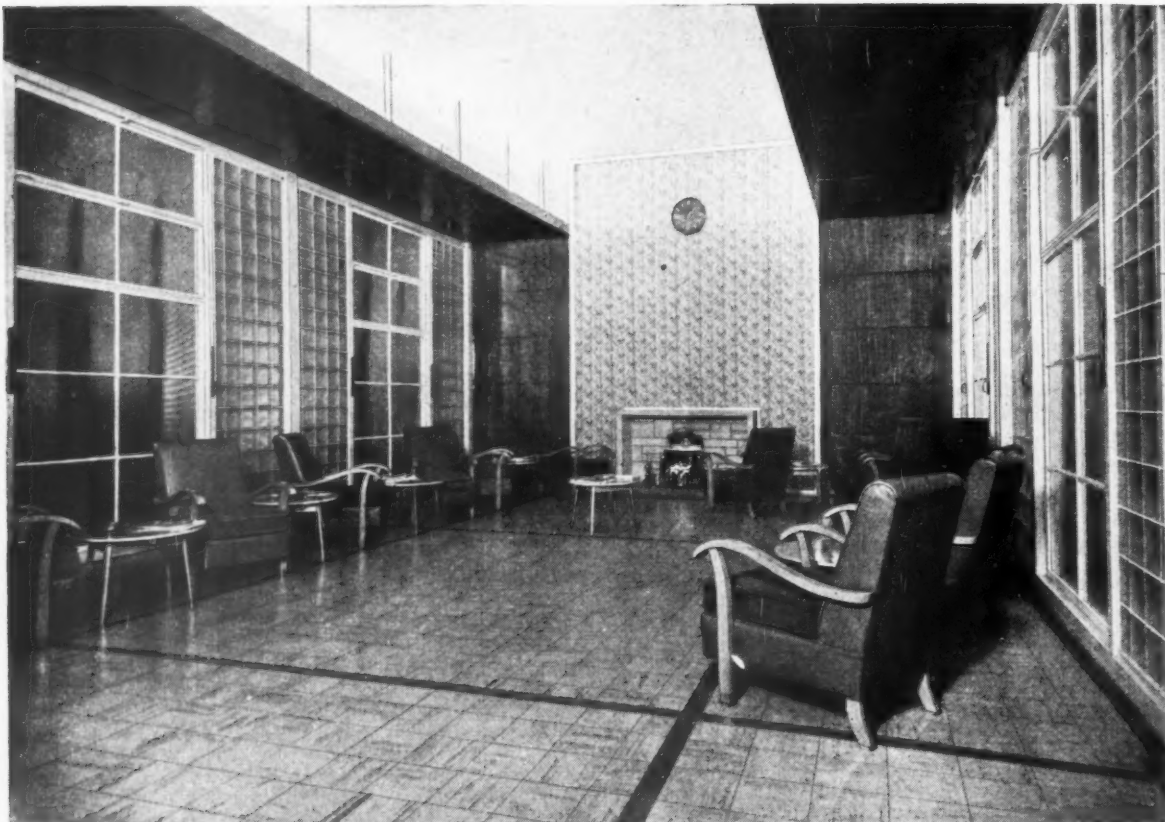


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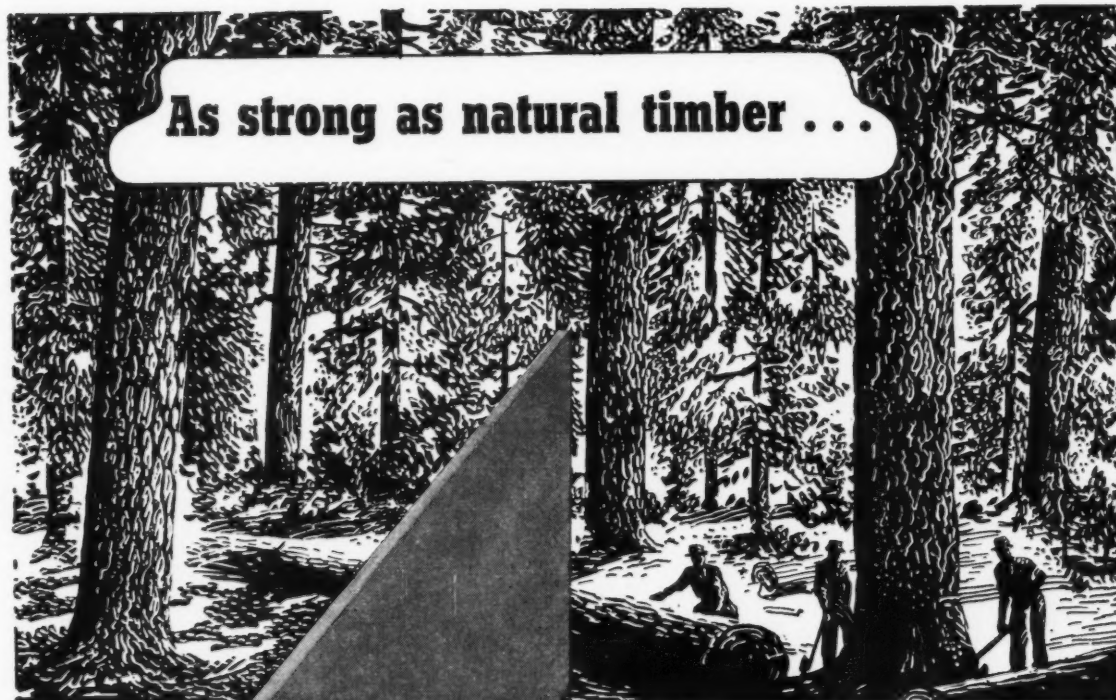
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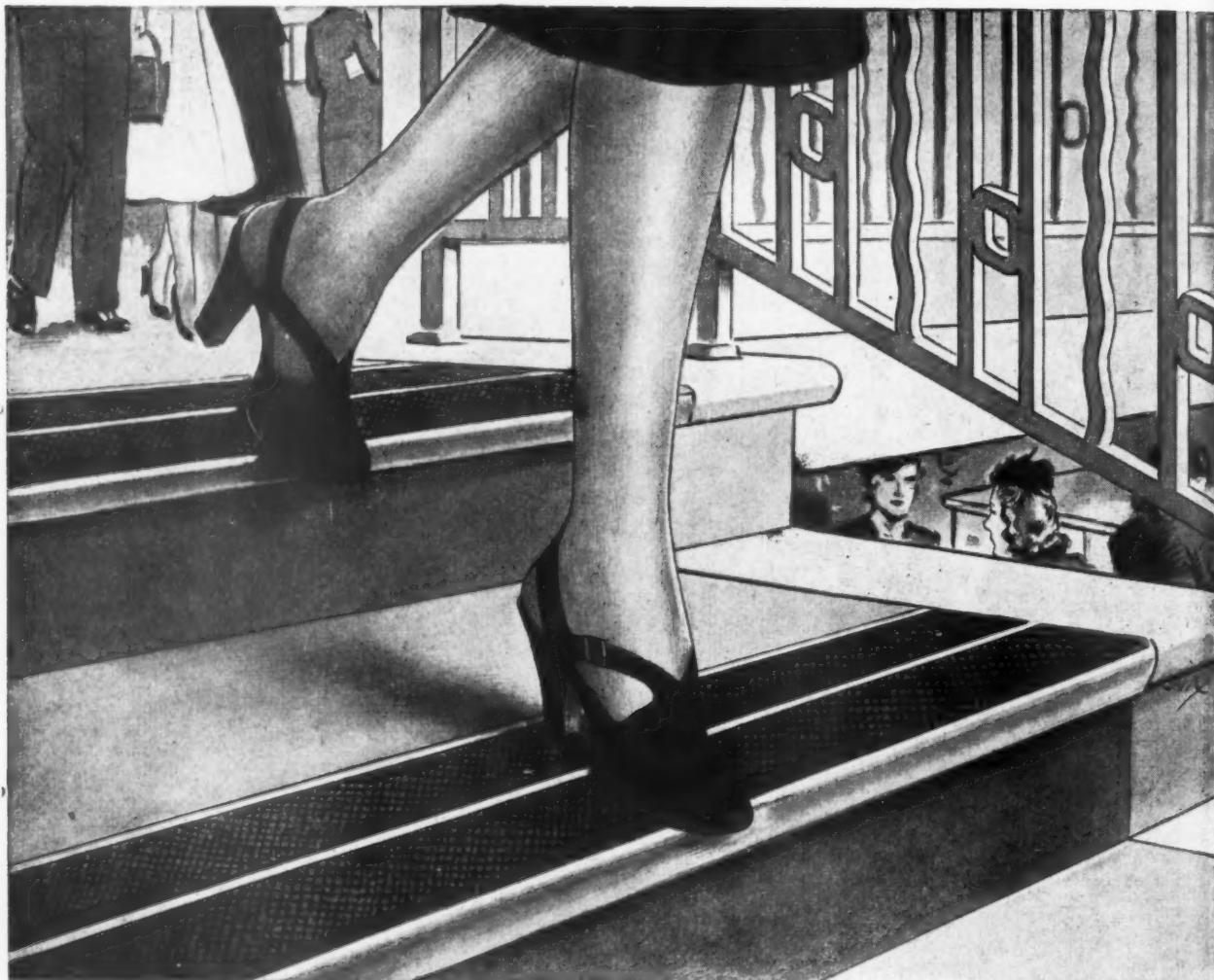
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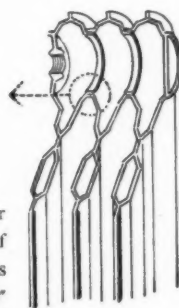
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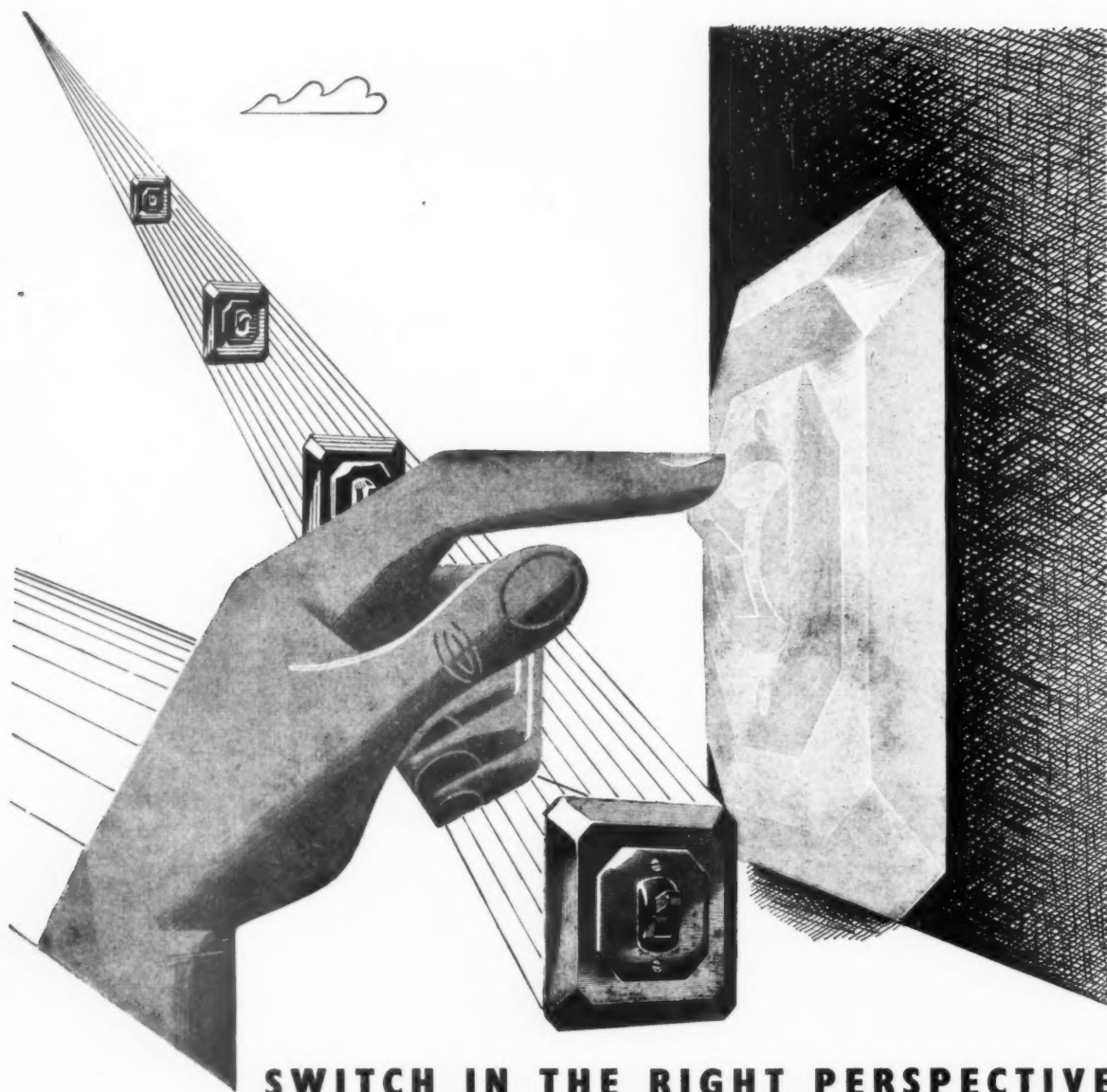
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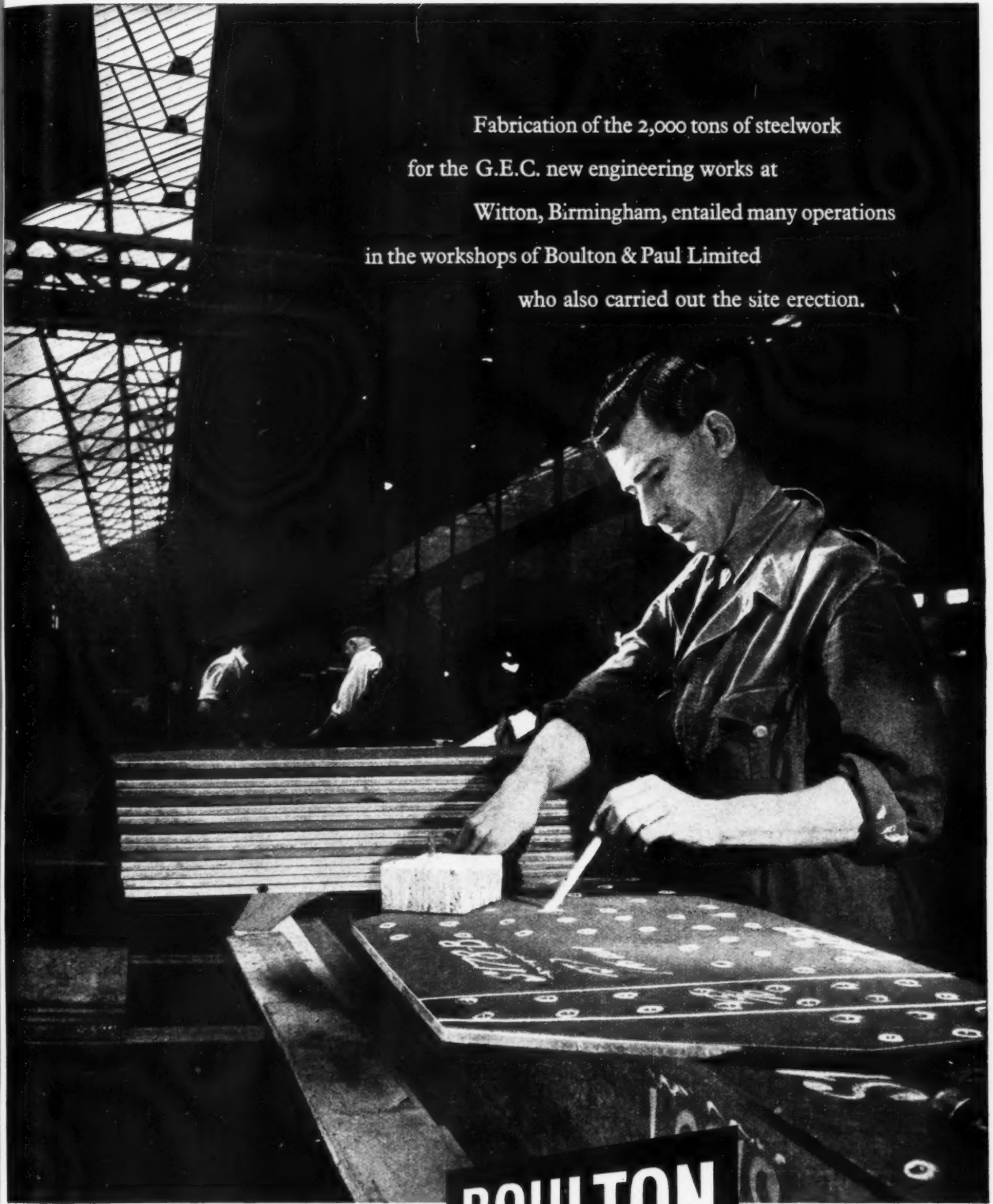
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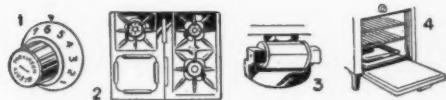
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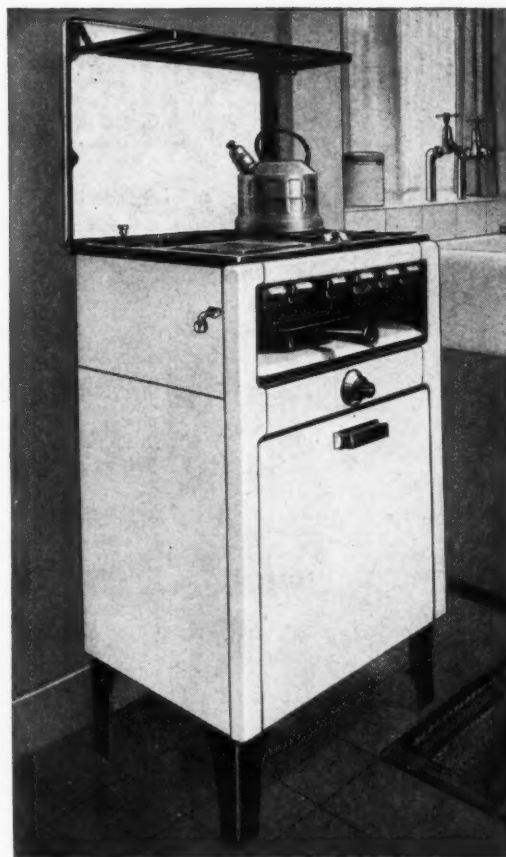
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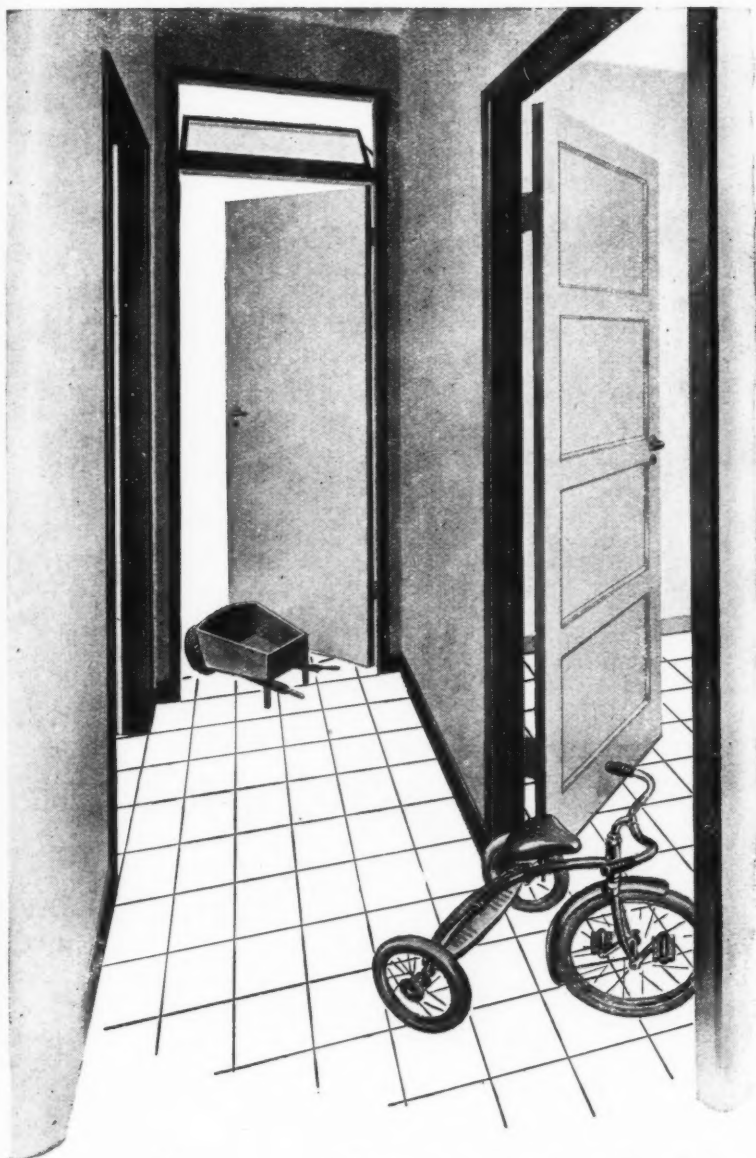
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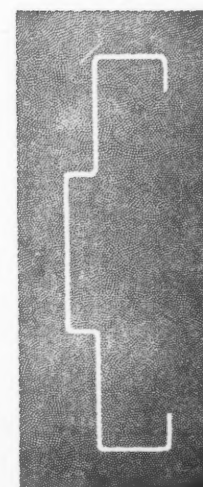
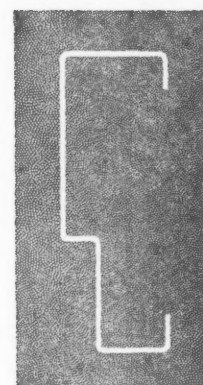
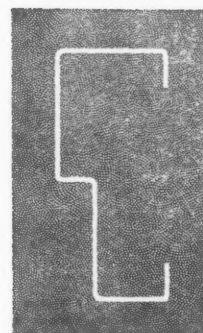
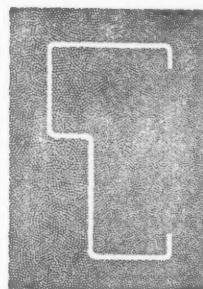
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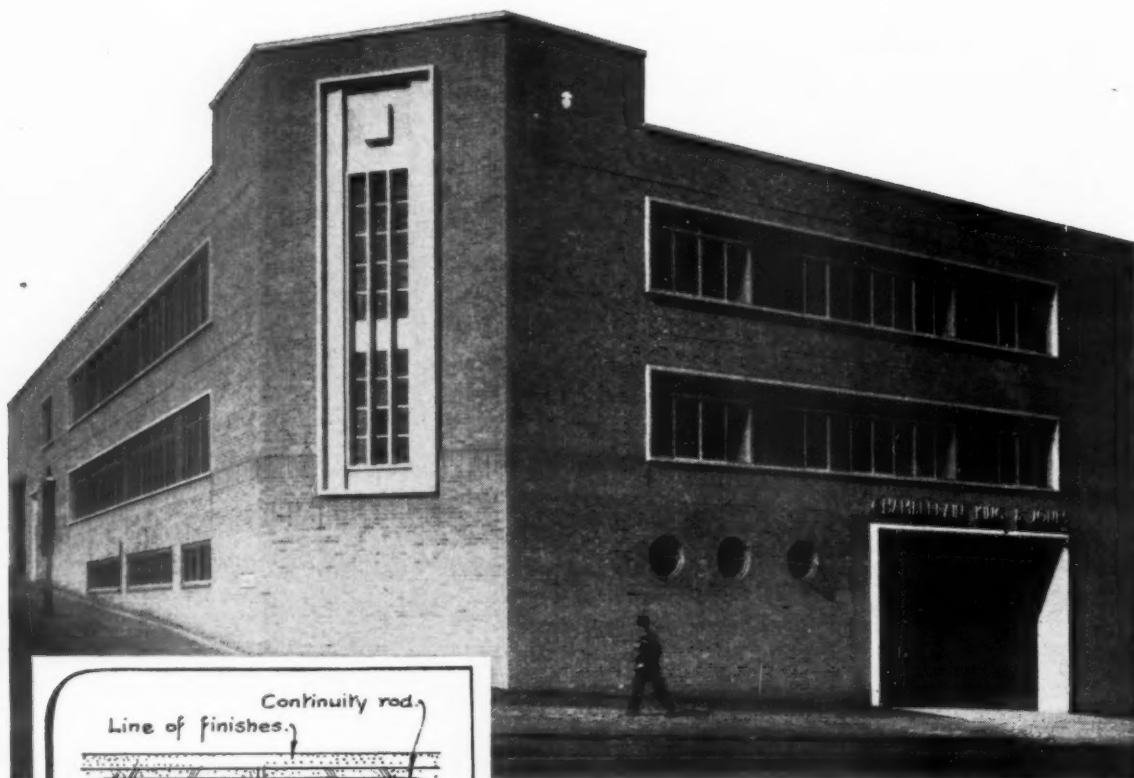
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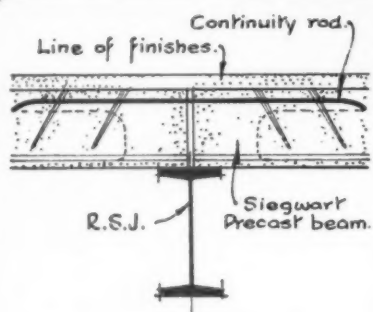
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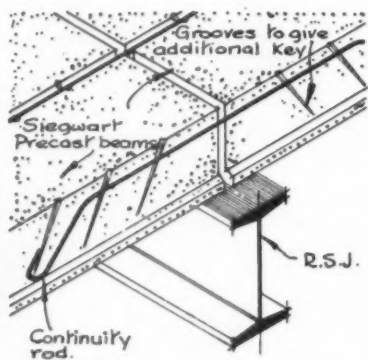
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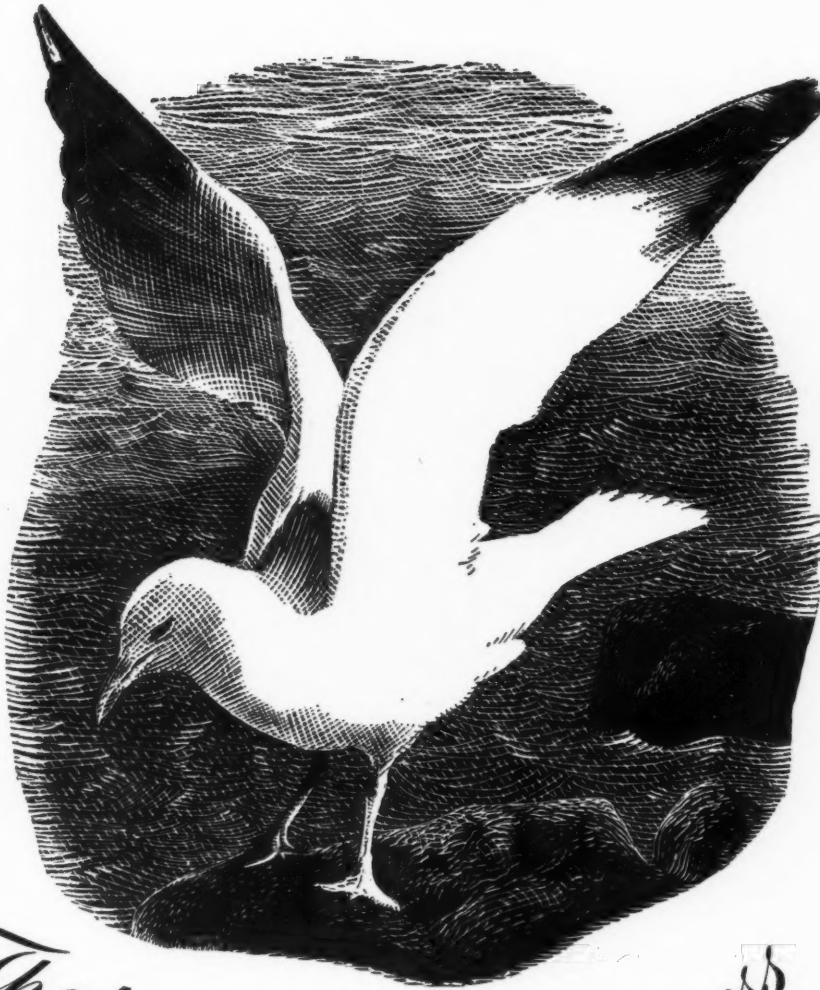
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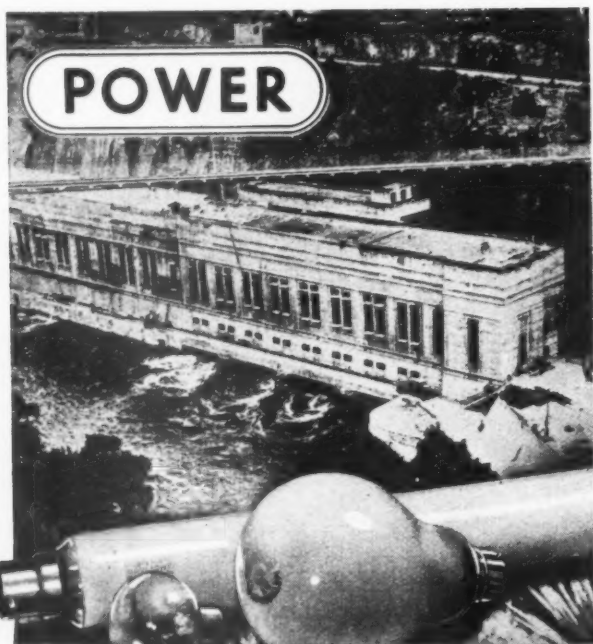
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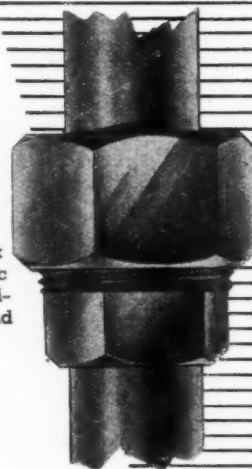
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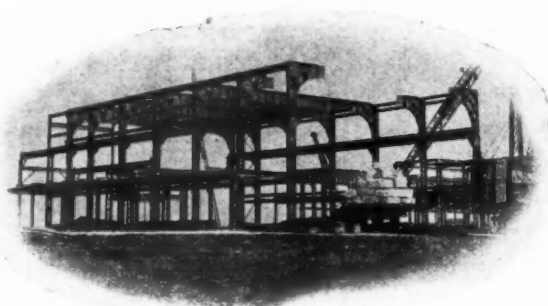


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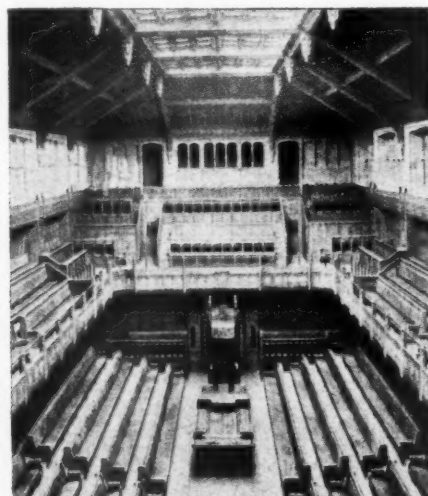
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Palace of Westminster

*Left: View of Lobby,
including the Churchill Arch.*

Below: Exterior from S.E.



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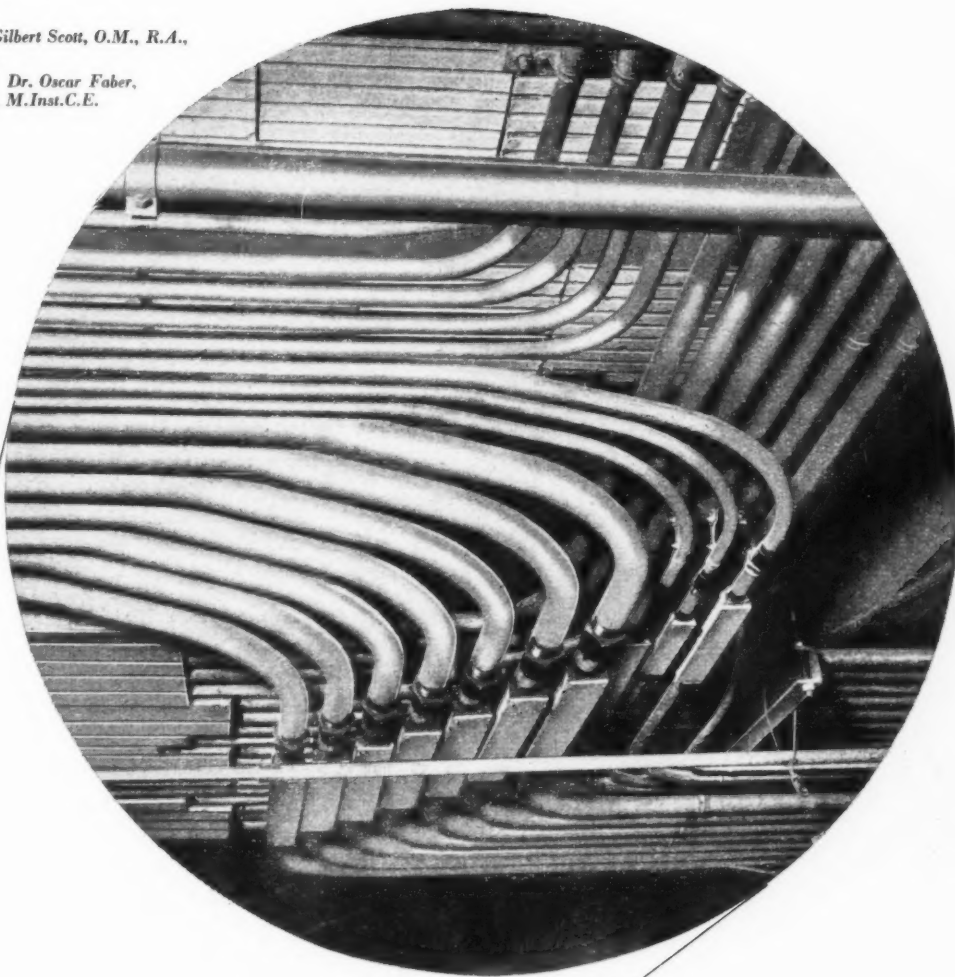
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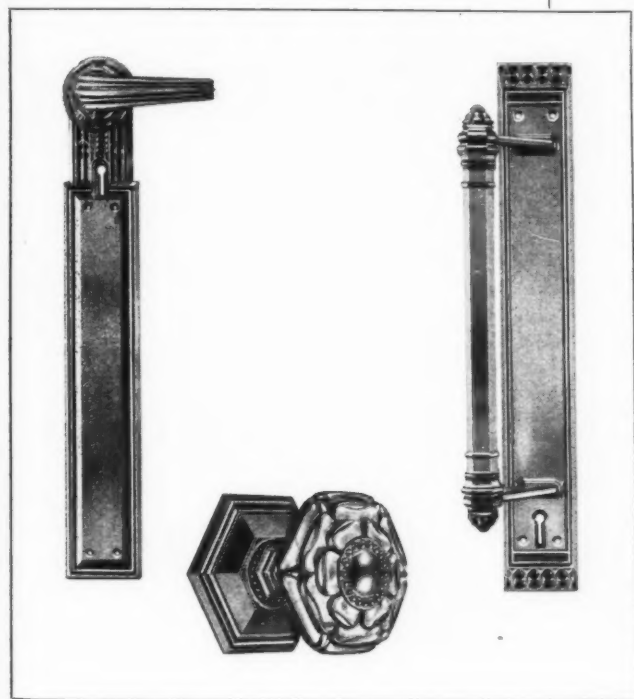
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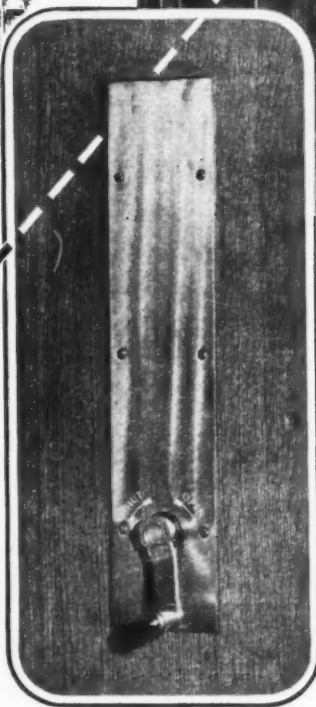
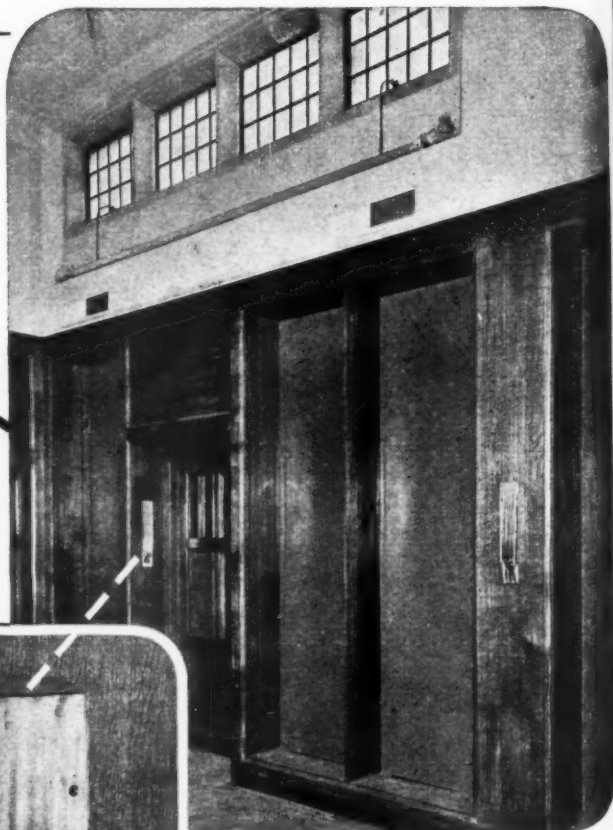
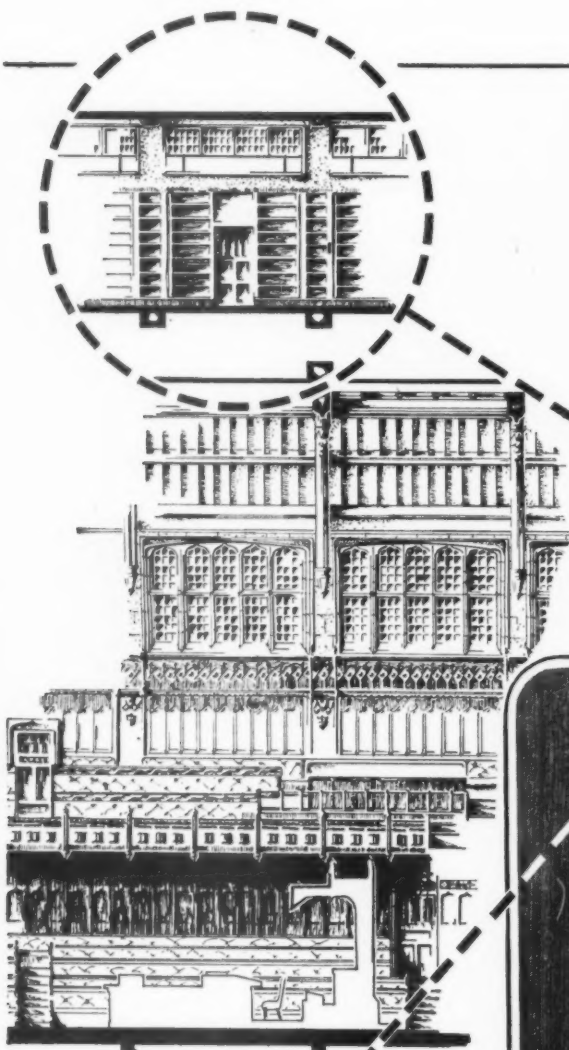
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for the Ministry of Works

ARCHITECT: *Sir Giles Gilbert Scott, O.M., R.A.*

CONTRACTORS: *John Mowlem & Sons Ltd.*

CONSULTING ENGINEER: *Oscar Faber, O.B.E., M.Inst.C.E.*



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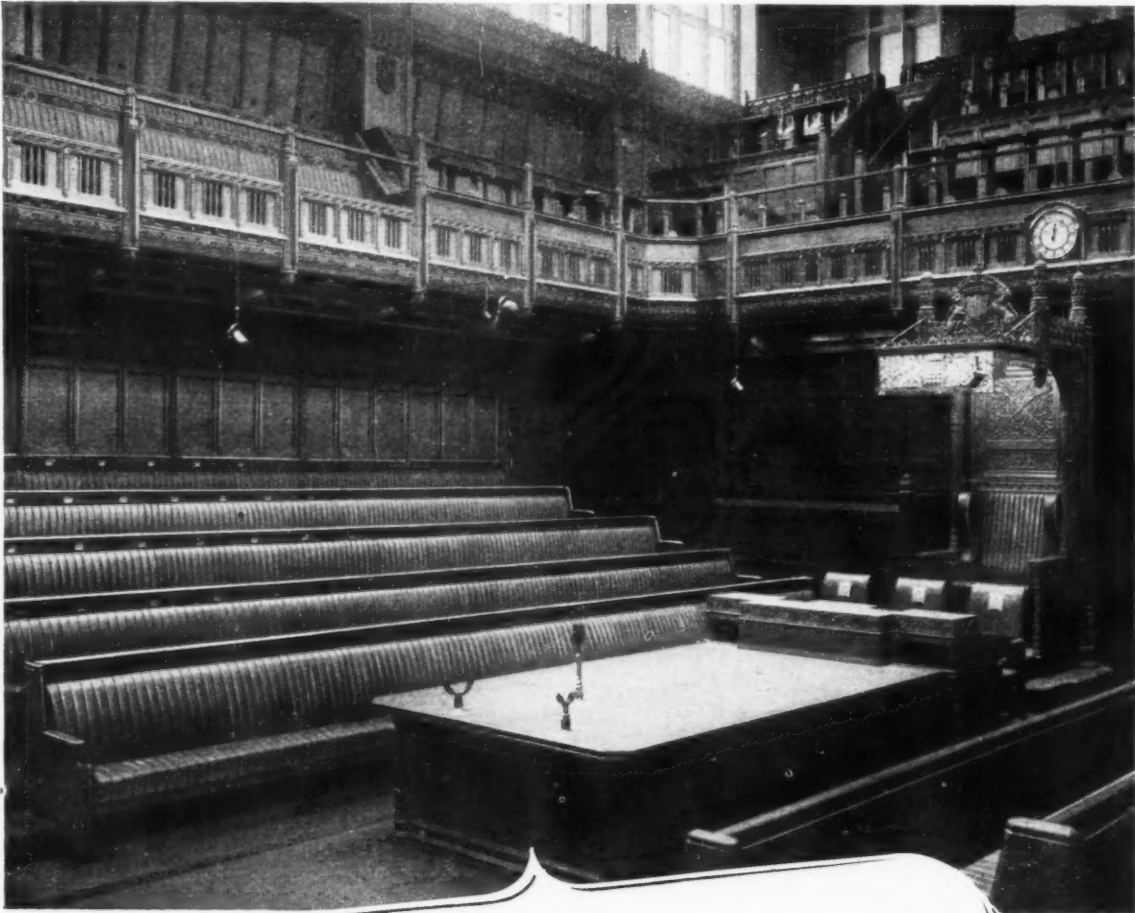
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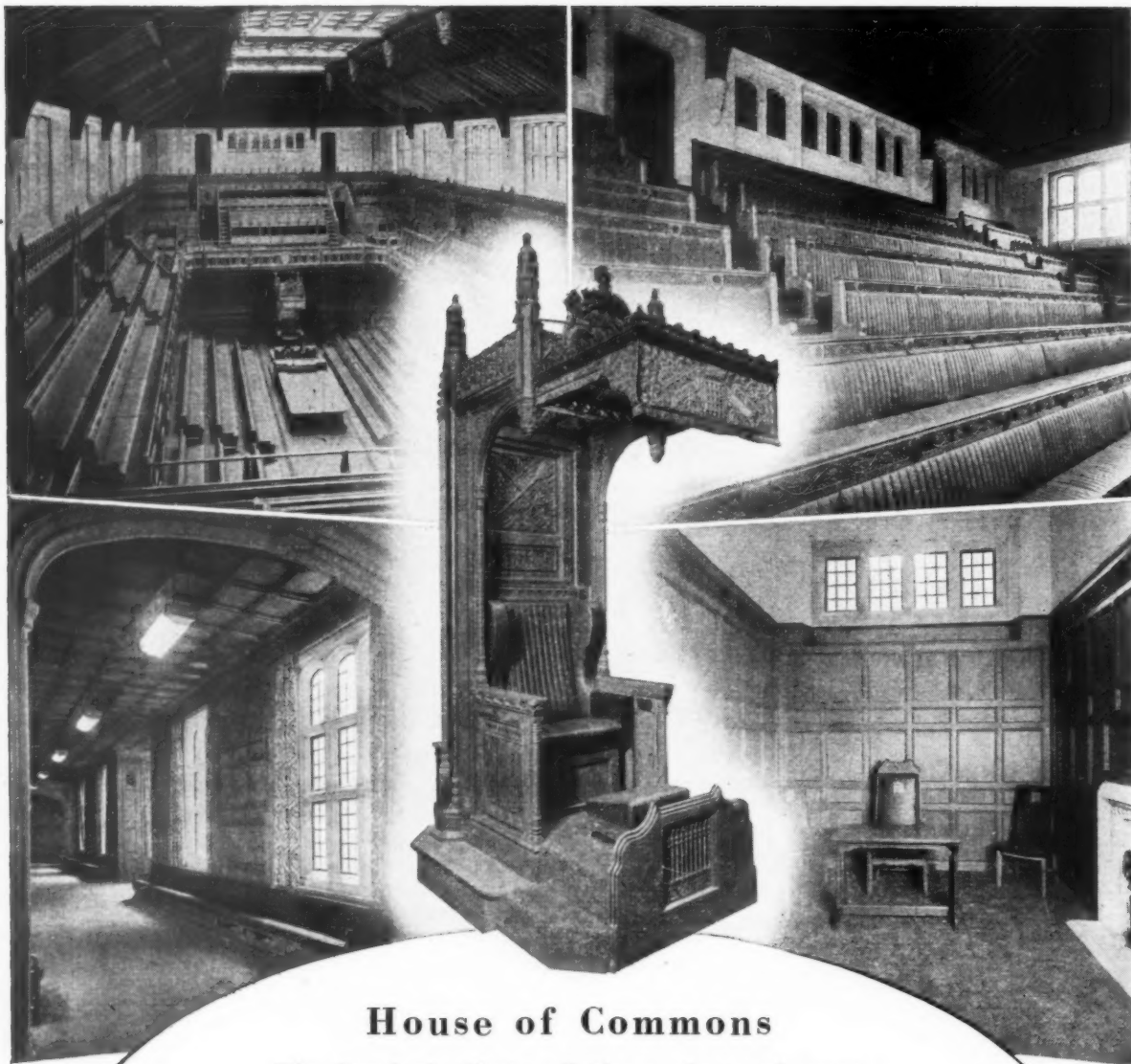
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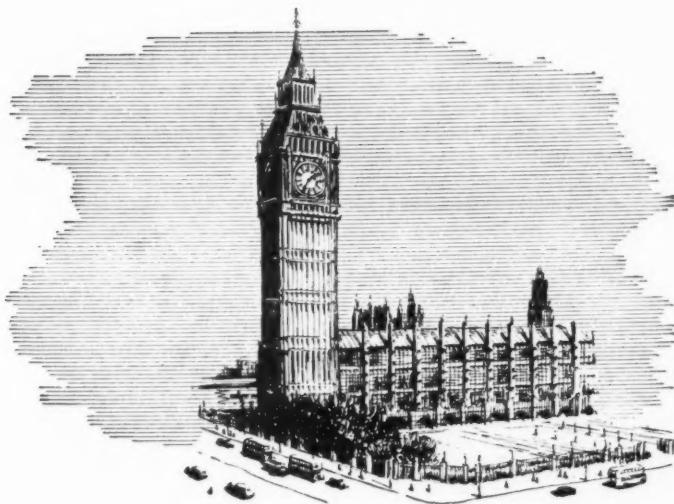
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ACKNOWLEDGMENTS —

The co-operation of the contractors responsible for the seating is gratefully acknowledged by Dunlop Rubber Co. Ltd. —
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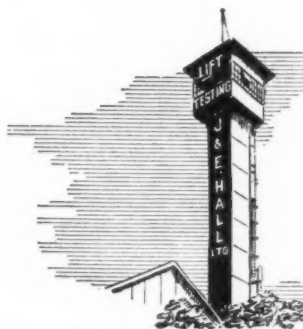
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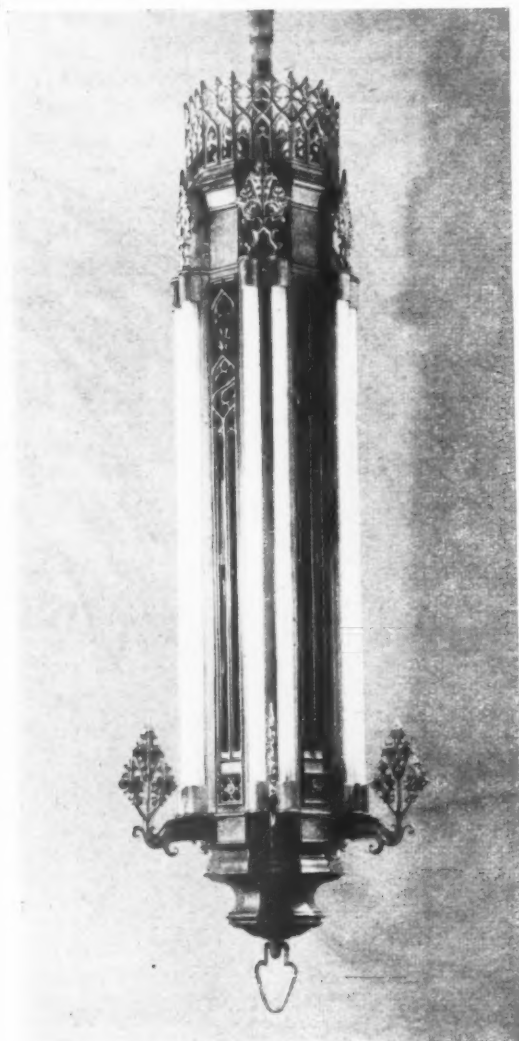
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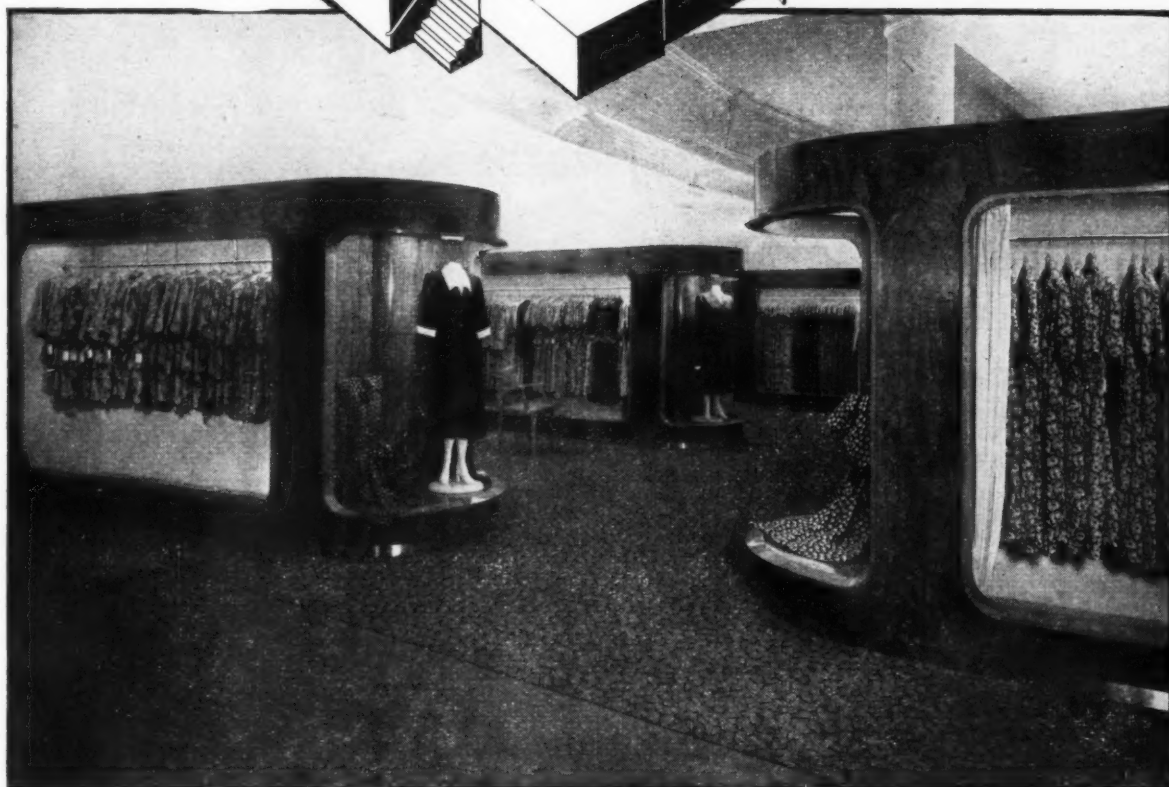
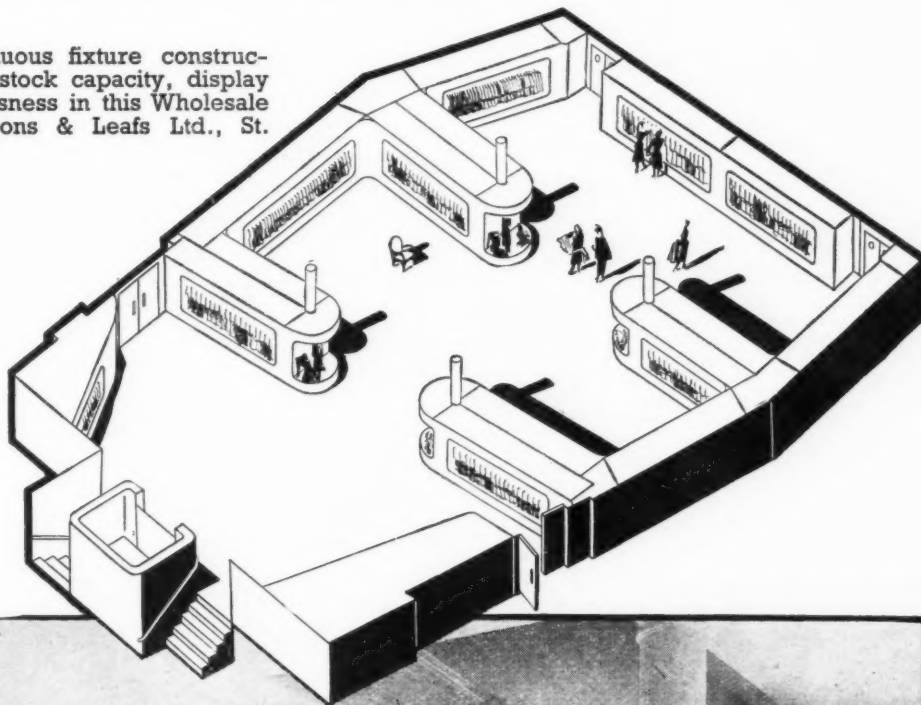
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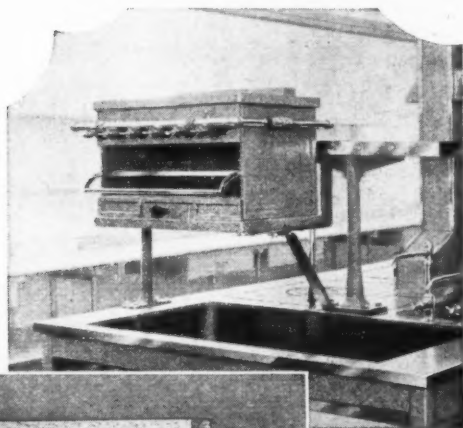


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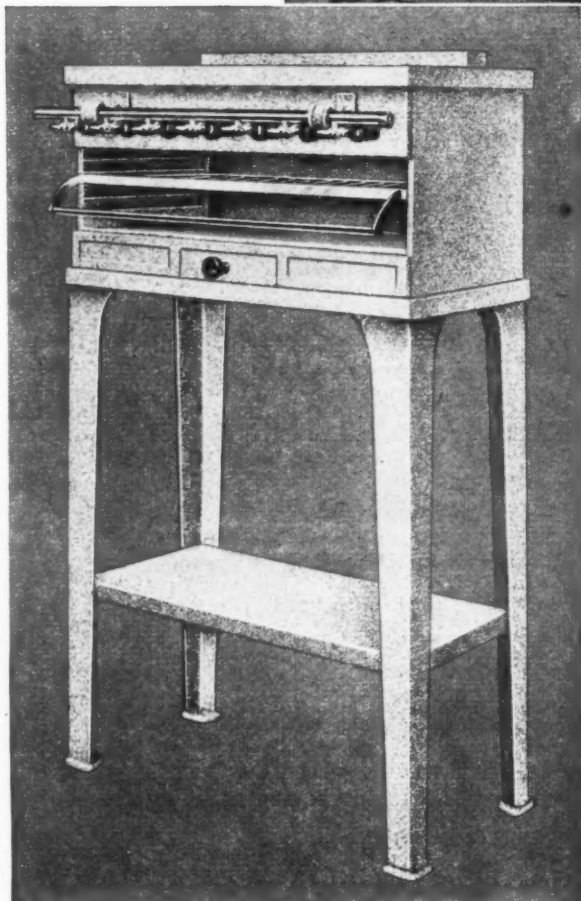


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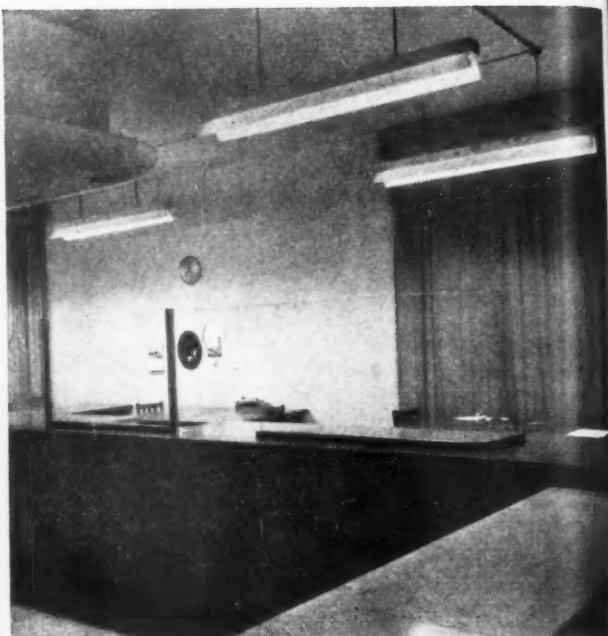
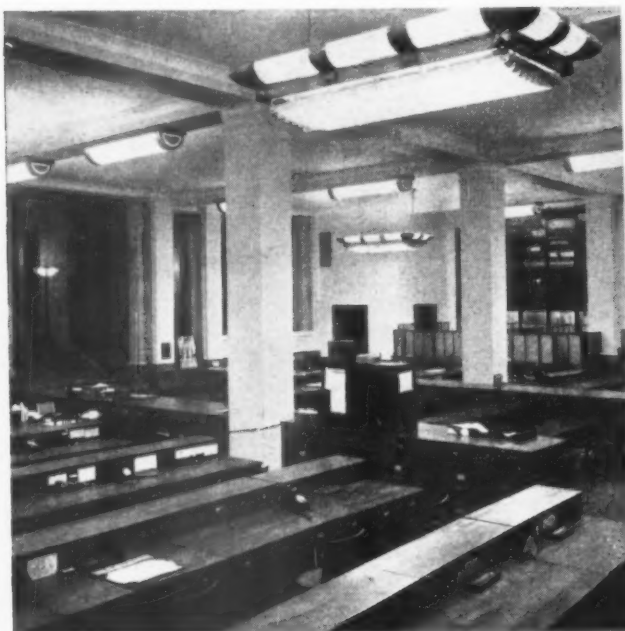


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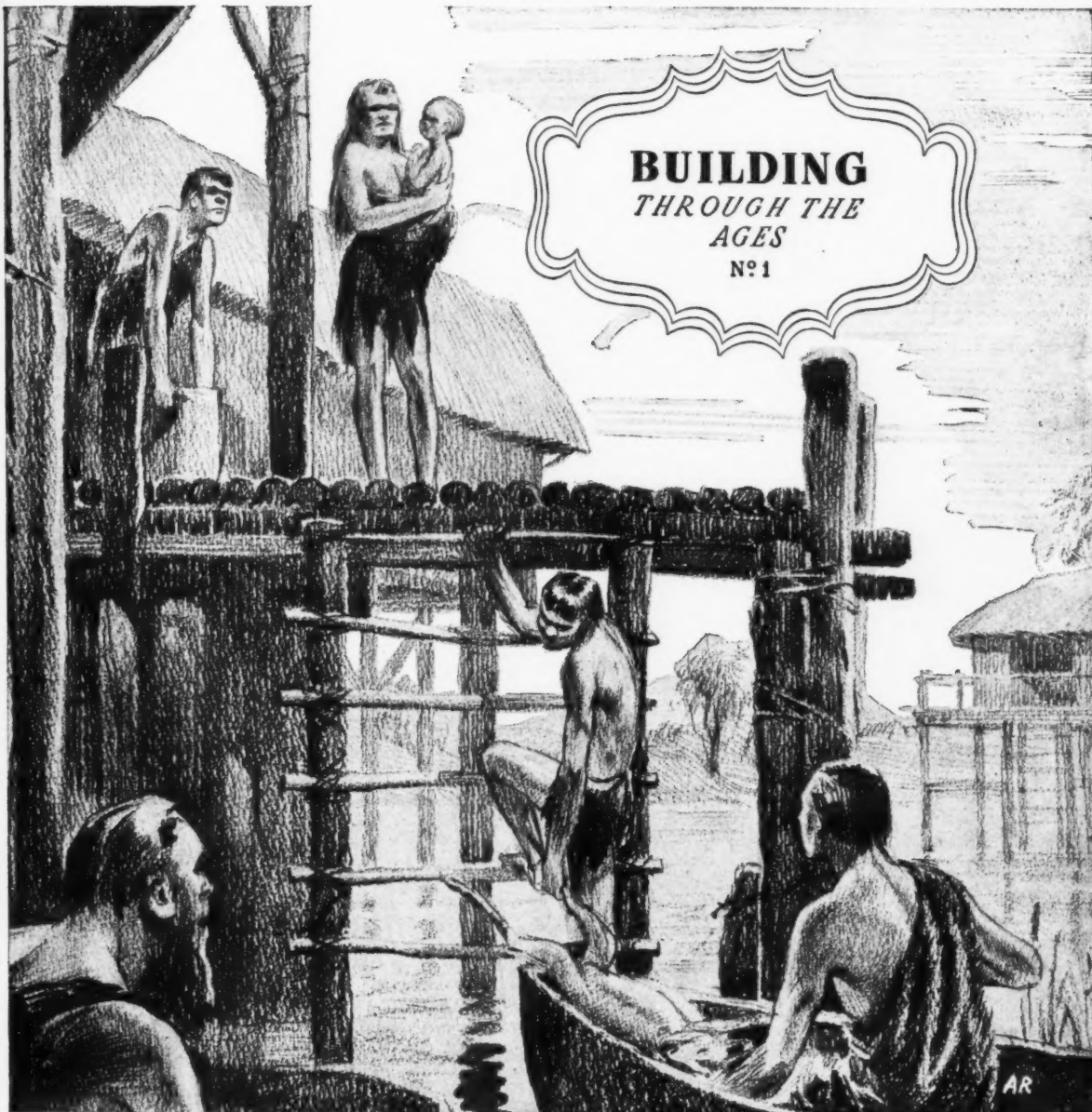
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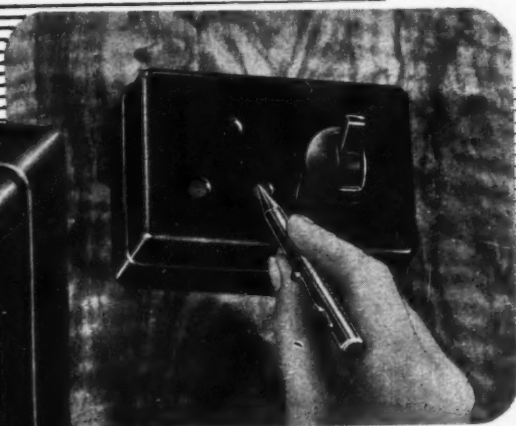
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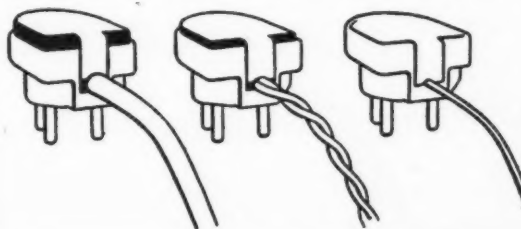
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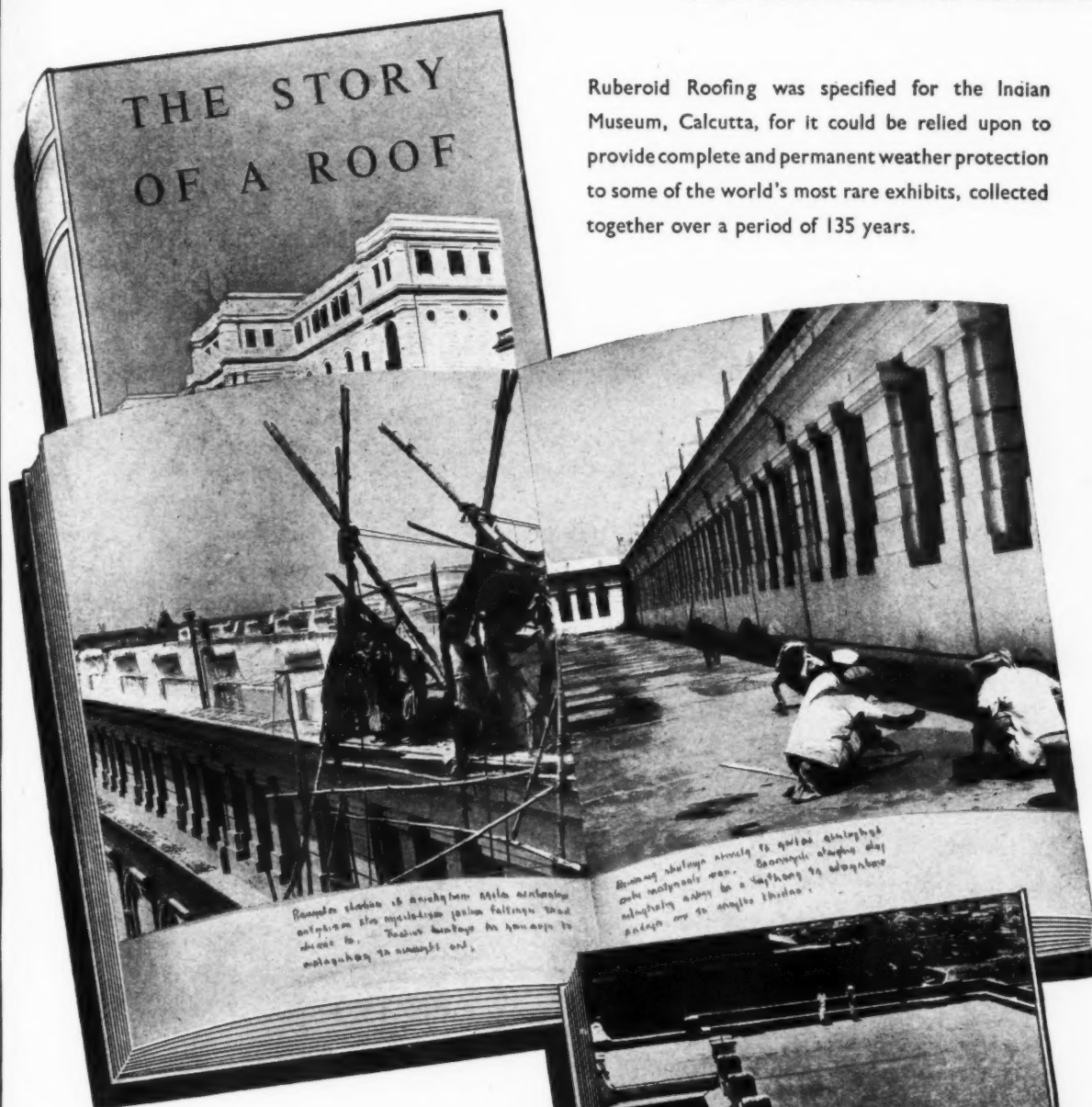
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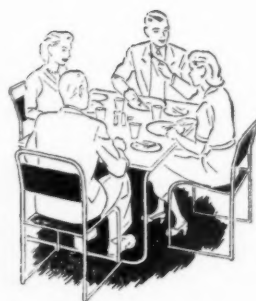
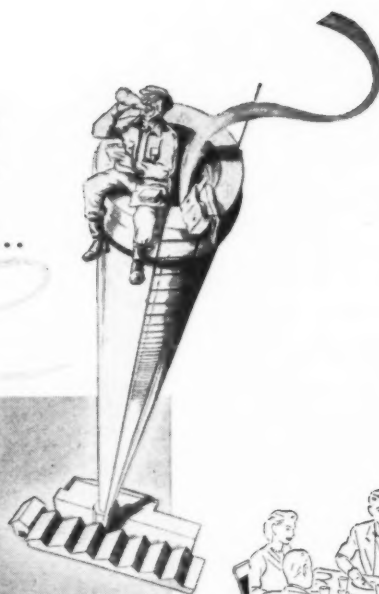
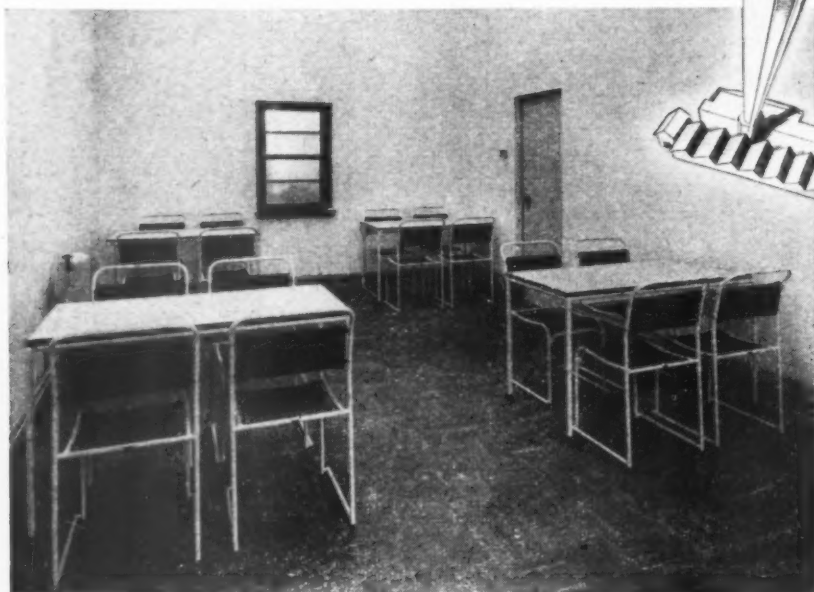
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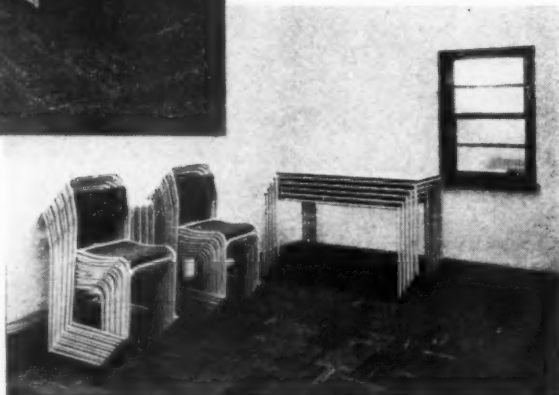


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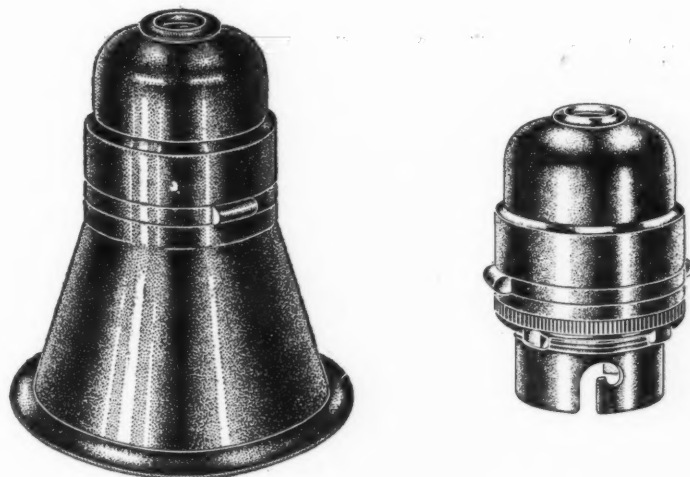
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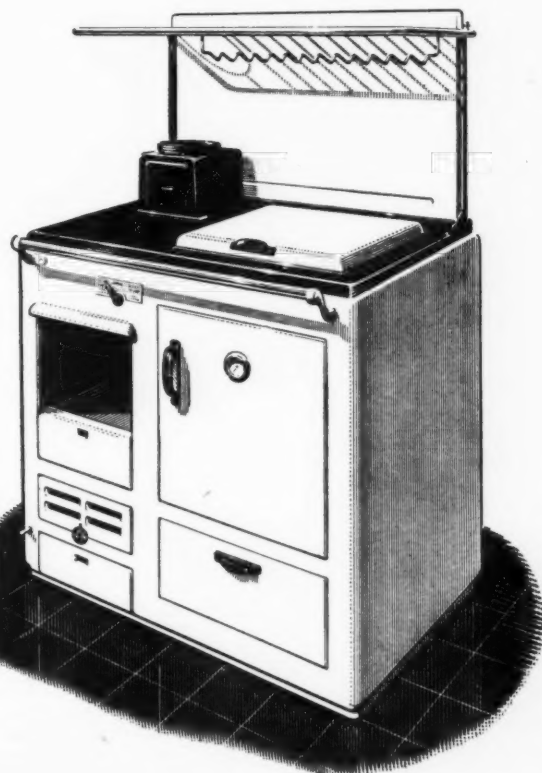
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THE ARCHITECTS' JOURNAL

No 2907 16 NOVEMBER 1950 VOL 112

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

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RIBA QUESTIONNAIRE RESULTS

Just over half the architectural profession are in private practice, and Sir Percy Thomas's Committee, appointed "to consider the present and future position of architects in private practice . . ." tell us in their report, published yesterday, that there is no widespread under-employment among them. So that's a comfort. While just over half my readers go off to check their bank balances I will remind the remaining 39.3 per cent. of the profession who go to build up the pyramids of public service, and the 6.2, 7.2, and 2.5 per cents. who, respectively, teach, are in private enterprise other than private practice (smart lot, these), and engaged in occu-

pations other than architecture (you'll find examples at the top of this page); I will remind you, I repeat, that this Committee, appointed in November, 1948, sent out questionnaires to all allied societies, county, city and borough architects, and to all public authorities as well as one to every member and student of the Institute (70 per cent. of you replied). An analytical report on the answers, by a firm of statistical consultants, was received by the Committee in November, 1949. The report (18 pages, plus 26 pages of appendices and tables) was submitted to the Council of the RIBA in July, 1950.

Twenty-one months, I respectfully suggest, is rather a long period of gestation, but the result is interesting, pleasantly written, and well worth close study. It does not, however, go nearly far enough in regard to the actual work architects are doing, the sizes of staffs, salaries paid, etc. This might well have been covered by the original questionnaire. The recommendations, to come down to brass tacks, can be summarized as follows: more and more competitions; the joint commissioning of one older and one younger firm for the execution of two or more projects, to enable the younger firm to gain experience; profit sharing and bonus schemes; senior members to be encouraged to enlarge present partnerships by taking in young members; young architects are advised to share offices and expenses and other overheads when starting practice. Finally, taking what the Council has always maintained is a cow, by the horns, but which to many seems more like a rapidly growing bull, the Committee recommends that the representative bodies of central and local government architects be approached by the Council with the purpose of estab-

lishing broad guiding principles on: firstly, the part to be played by private architects in local authority house and school building programmes. Secondly, on the employment of private architects as specialist consultants, or in association with official architects on "programmed" work, i.e., designing within determined structural methods; or by direct selection or by competition for those buildings not amenable to a programme. Thirdly, on the participation of private architects under the T and CP Act of 1947. In conclusion, the Committee points out that, following six years of war, the consequences have not been as damaging as might have been expected, and they declare their faith, in quite a touching way, in the future of private practice. They also reaffirm their belief that private and official architects are complementary and of one purpose architecturally. With the latter sentiment I am prepared to agree (only 40 days to Christmas), but not with the former. Just what do they mean? This is the one meaningless phrase in what is otherwise a very sensible, if belated, document.

One thing remains: what will be done to implement this report? What can be done to ensure that this good advice is taken? On this subject the Committee remains silent. No one, in this gentlemanly profession, ever insists on action, save when someone is being too obviously ungentlemanly. But no doubt, as practice is better than precept, the members of this Committee will act on their own advice, and, such being the power of example, I am sure others will follow them. I am sure, also, that the editors of the JOURNAL would readily give space, *pour encourager les entres*, to actual examples of these recommendations being carried out by those concerned.

AVOID CORROSION
Specify HOPE'S
HOT-DIP GALVANIZED
WINDOWS
& refuse any cheap substitutes



THIS FRUIT FENCE, 3 MILES FROM THE CENTRE OF BIRMINGHAM, HAS 17 GALVANIZED STEEL STRUTS, FIXED IN 1920. THEY WERE FIRST PAINTED IN 1949; THERE WAS NO CORROSION

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Sir P
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This is far too important a document to be pigeon-holed. Congratulations, Sir Percy and Committee. Action, please, RIBA.

NEW WORLD INITIATIVE

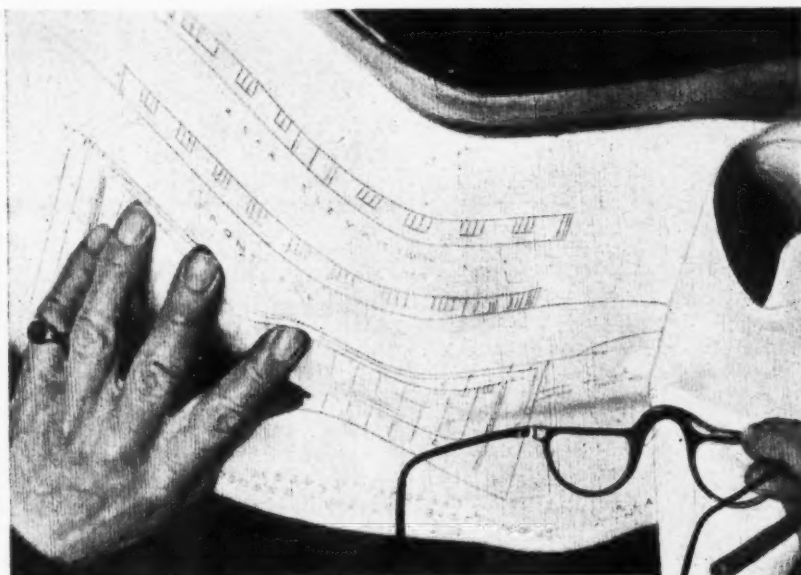
All those who suffer, as I do, from nightmare journeys past infinite vistas of exhibition stands will appreciate the intelligent move of the Ontario Association of Architects in holding an exhibition of only those building products and equipment which have never been exhibited before or, alternatively, the new application of standard materials. UK firms have been asked to contribute to next year's exhibition, but, with a shortsightedness that goes ill with the general commonsense of the whole idea, a wholly inadequate time of only a few weeks has been allowed for the receipt of applications to exhibit. (Notification received; October 26; closing date, November 20.) Better management, I trust, next time.

OTHER MEN'S ASTRAGALS

Measured drawings are like wool: there is no substitute for them. But unfortunately there is not much more inducement for making them nowadays than there is for wool-gathering (in the literal sense, of course).

The Georgian Group have recognized these facts. What is more, they have acted on them, and have instituted a competition (which they hope will be an annual one) for measured drawings made by students of recognized schools of architecture. Buildings to be drawn must be Georgian in the widest sense (1688-1837) and—sensible precaution—must be approved by the Director of the National Buildings Record; the prize is £25, and the winning entry becomes the property of the Group, who present it to the National Buildings Record.

The other day I called in at the Group's offices to see the results of the first competition held on these lines. The winner was Norman Edward Hill of the RWA School of Architecture, Bristol. I hope he found an enjoyable way of spending his prize; I'm sure the NBR will appreciate its luck in getting such a fine record of the Pitville Pump Room at Cheltenham.



Above is a detail from the portrait, shown right, of Michael Waterhouse, P. PRIBA, by David Jagger, which was unveiled last Tuesday at 66, Portland Place, on the occasion of the inaugural address of A. Graham Henderson, the new President. Astragal commends the kindly gesture of Mr. Waterhouse in not giving the artist too complex an architectural design to perpetuate in oils.



THE COMMONS CHAMBER

I imagine the amount of space given in this issue to the new House of Commons reflects the Editors' view of its importance as a national monument rather than its merits as a design. Because although I am aware of all the difficulties, I do think that much of the criticism voiced since the new chamber was opened is justified.

The Editors of this and other journals have been right, nevertheless, to give it plenty of attention because public interest in architectural matters—now so sadly lacking—will never be aroused unless every opportunity is given of discussing buildings of public importance and encouraging controversy based on full information.

There are two issues, which to my mind it is essential—and only fair—to

keep separate. The first is whether it was right to have a Gothic Revival building. This has been so exhaustively debated that there is nothing I can add except to support the *Review's* opinion that the problem is such a peculiar one that the usual principles don't apply, and it's best to regard the new chamber as a fascinating freak—the latest of a series of fascinating architectural freaks in which the Commons have sat for four hundred years.

It would be unfair to criticize Sir Giles Scott for not designing a kind of building he would never have attempted. He was appointed *because* the Select Committee had decided they wanted something Gothic. So the second point at issue is whether it is good Gothic. I suppose the only answer is that good Gothic couldn't be produced in an age so un-Gothic as ours in spirit. Even Pugin's Gothic had vigour and conviction.



Castle for the Nation

Castell Coch, near Cardiff, Glamorgan, is shortly to become national property. Together with the neighbouring Caerphilly Castle, it is to be placed in the guardianship of the MOW, under the provisions of the Ancient Monuments Act, by the Marquess of Bute. Caerphilly Castle, which was erected in the 13th century, is said to be the most

remarkable example in this country of a great mediæval fortress designed on the "concentric" plan. Castell Coch, a smaller mediæval fortified residence, was restored by William Burges in the 19th century. It will be described and illustrated in a forthcoming issue of *The Architectural Review*.

tion of a kind, beside which Sir Giles's seems sadly insubstantial and insipid. The inside of the chamber I find colourless, and the carving, in spite of the care and craftsmanship lavished on it, mechanical and lacking in feeling.

Soon, however, when the novelty has worn off, I suppose it will all be taken for granted and will fall naturally into place among all the other irrational and anarchical designs with which this age without convictions chooses to surround itself.

WASTING A NATIONAL ASSET

Eric Brown, head of the progressive school of architecture at Kingston, writes to me in righteous indignation about the way the Home Office is treating a German ex-POW he knows.

This young fellow—let us call him S—has wanted to be an architect ever since his school days at Leipzig. At 17 he was conscripted into the German Army and was taken prisoner. His father died and his mother and sister moved to Trieste. Two years ago he was released but being unable to obtain a visa to rejoin his mother at Trieste he elected to stay in Britain as a farm labourer with the intention of eventually settling down here as a British citizen. Meanwhile he has been saving what money he can to help him realize his ambition to become an architect.

At the beginning of this year he gained the impression that his condition of employment had been removed and he was accepted as a student at Kingston. While studying there he intended to earn his fees by spare-time work. During the brief period he was at the school, Mr. Brown found him intelligent, sensitive and talented. He considers him to be quite wasted in farming, for which he is in any case physically unsuited. Now S finds the condition of agricultural employment is still in force and he has made application to the Home Office to release him from his obligation. The request has been rejected and he must spend two more years on a farm before he becomes naturalized and free, by which time he will be 26. He is now considering going to France. This sort of thing is no credit to our Welfare State. Obviously someone in authority should think again.

ASTRAGAL

The Editors

WHO ARE TO BE OUR PLANNERS?

THE report of the Schuster Committee,* though long awaited, has at length been published at a most opportune moment in the history of planning. After more than two years' experience of the 1947 Town and Country Planning Act and its working by central departments and local planning authorities, almost everyone who has come within its enormous orbit has some complaint against it; and there is now a large body of opinion which favours its amendment in a manner which greatly simplifies its working, while retaining its main principles—and also provides more encouragement for needed building development.

At the same time, many men and women—especially architects—who entered planning during the last five years in a true missionary spirit are now getting out, or have got out; and these people have been responsible for a sizeable proportion of the best work done in preparation for, and under, the Act. It is in these disturbing—indeed, critical—circumstances that the Committee has published its report. They are concerned with the qualifications of planners—notably, of course, with those of the top men in larger departments, whom they call chief planning officers. But they could not examine qualifications without also examining the job to be done, the circumstances under which it would be done, available material and sources; in fact, they were compelled to review what can only be called the whole planning question.

The Committee may be said to have come to three main conclusions. First and foremost, they say that planning must be considered a central part of the whole business of each local authority that is a planning authority, and the chief officer (the Town or County Clerk) must take a lively interest in it. The Committee see the difficulty of bringing this about; and well they may. In most local authorities the Planning Department (if a separate Department at all) is regarded with some disfavour and is, of course, the new boy; and any attempts by the planning officer to co-ordinate the land use claims of other Departments (Housing, Education, Police, Allotments and a half-dozen more) are usually unwelcome. Yet, if this recommendation is not, somehow, carried out, the rest of the recommended reforms cannot do much good.

Second, the chief planning officer of the future should have had a sound basic education followed by a two years' full-time planning course at a university. By basic education is meant an Arts degree or a degree in a subject bearing on planning (e.g., economics, sociology, geography, etc., or one of the three usual professions—architecture, civil engineering and surveying). They definitely do not think it essential that a chief planning officer should hold full qualifications in one of these last three professions. Elsewhere, however, they

* Report of the Committee on Qualifications of Planners, H.M.S.O. Price 2s. 6d.

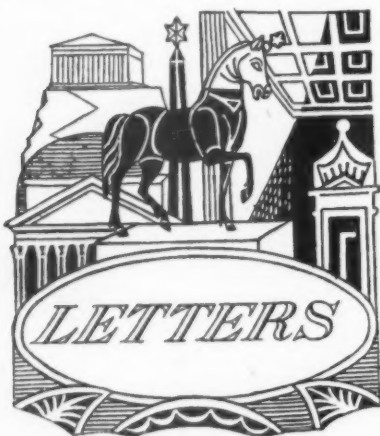
admit that many candidates will come from the three professions and "indeed, we feel there is a positive advantage in the hard discipline of a practical profession as a background to the less clearly defined work of planning."

Third, the Committee think that the Town Planning Institute should be radically reorganized into a national and independent central institution for the new planning. In particular, both its Council and education committee should contain a large university representation and in time the suffix AMPTI should denote those, and all those (but only those) who have been trained in the way they suggest.

Since four out of five of all planning problems (big and small together) can be broadly called architectural problems, the profession can rest assured that—if the recommendations are carried out—its members will obtain a high proportion of the key jobs.

DOCUMENTATION AND THE ARCHITECT

The JOURNAL welcomes the recent formation of the International Council for Building Documentation, whose work is described on page 388 by F. R. Yerbury. Architecture, more than most professions, requires its practitioners to have a wide and detailed knowledge on a variety of subjects. Anything which helps them to make the best use of their limited reading time is to be applauded. Although the systematic surveys of literature which are, at present, carried out by the libraries of the RIBA, the BRS and the MOW are excellent, they cannot possibly provide the varied and easily accessible information that can be expected from this international co-operation. We hope to present readers with all the developments of the scheme in other countries as the Council settles into its work.



L. F. Pitts-Tucker

H. T. Rushton

Aditya Prakash

John Lacey, A.R.I.B.A.

Architectural Criticism

SIR,—I should like, as a layman, to support Mr. Herbert's complaint in your issue for September 21 that you criticize buildings designed by borough engineers far more severely than those designed by architects, although there are many post-war architect-designed buildings which are just as ugly. The dispute about Mr. Dromgoole's Ocean Terminal is a good illustration of this point. I strongly suspect that this criticism would not have been published, or at least not so strongly worded, had it been known (a) that the building was architect-designed, and (b) that it had been approved by the Fine Arts Commission. The architect's reply is unlikely to have been so heated if the original criticism, based on these two misconceptions, had not itself sounded so contemptuous.

Surely, the approach to architectural criticism should not only be separated from professional feuds, but should be made in the knowledge that many architects disagree about what is good design.

Could the JOURNAL not introduce a weekly article of criticism by a guest architect on a given building—rather on the lines of the radio "Critics"? Perhaps more than one architect could be called on to give their various impressions. If they pre-

ferred to be anonymous, they could be so, but this would be a pity.

London.

L. F. PITTS-TUCKER.

Coals to Newcastle

SIR,—I was interested to note ASTRAGAL's comments under the above heading (October 26, November 2) regarding Cedar Shingles. I happen to be one of the many architects who are yearning to clothe their brick boxes with the charming silver grey of the cedar shingle, but unfortunately the out-of-date bye-laws in this country do not permit their use in certain areas.

I was under the impression that there is a shortage of timber in this country, and the use of shingles allows a saving of 30 to 40 per cent. of timber in the roof construction. I am told by the local authority concerned that this is appreciated, but that their hands are tied.

London.

H. T. RUSHTON.

Machines in Building

SIR,—Mr. Eden's article on Mechanization (AJ, September 28) calls upon architects to do a bit of heart searching. Do I really think while designing (or, at any rate, while preparing working drawings) how the process of erection of the building will take place? Perhaps I do. But mostly in traditional manner. I think in terms of wheelbarrow and trowel. However, an architect must bear in mind the potentialities of various machines in building work. It may be cheaper by traditional methods of construction to dig trenches for wall foundation, make concrete footing, build a few courses of brickwork, and then pour concrete for ground floor; but it may be found cheaper still by mechanical means to pour concrete straightaway for ground floor and turn down the concrete as "toe," wherever necessary, to provide foundation for walls.

The greatest need is for the education of the architect. I can think of two ways in which this can be done: (a) The school curriculum should include the use of machines in building construction and exclude quite a lot of traditional out-of-date methods of construction. (b) The manufacturers of building materials and machines should, in their advertisements in technical papers, pay greater attention to showing the architect how best their materials can be handled by various machines and vice versa.

London.

ADITYA PRAKASH.

Architectural Competitions

SIR,—Astragal's suggestions about architectural competitions, made in your issue of August 24, are most constructive. A visit to an exhibition of competitors' efforts always shows a tremendous expenditure of labour, much of which is clearly wasted. A method of eliminating this waste without prejudicing the quality of the final design is clearly needed, and an eliminating competition is at first sight an attractive proposal.

Many brilliantly successful designs are, however, conceived in a great hurry at the last moment, and though they may be built on the foundations of a hundred discarded schemes, they may in no obvious way resemble any of them.

I think it is essential, therefore, that this eliminating stage should be used for selecting designers only, and should not tie the competitors in any way to whatever proposals they may submit at first.

I also foresee that the task of the assessor, already extremely exacting, will become even more arduous in its dual capacity of selecting designers on the basis of their early sketches, and judging designs at a more finished stage.

London.

JOHN LACEY.



RIBA

New President's Address

In his presidential address at the RIBA, 66, Portland Place, W.1, on Tuesday, Andrew Graham Henderson spoke of his qualifications and his "faith." The only qualifications he could claim, he said, were an intimate knowledge of the average provincial architect's practice and problems, a lifelong interest in architectural education and a very sincere desire to promote the welfare of the Institute and the profession. This "faith," he said, could be summarized in the statement that architecture, in its widest interpretation, was a necessity for the well being of the community and not a luxury, and that it would increasingly be recognized as such in the future.

Mr. Henderson went on to discuss the architect's position as an artist and the means by which his work should be assessed. An architect, he said, was an artist who set out to produce works of art in a medium vaster in scale, more permanent in character, more restricted by considerations of usefulness, and more affected by scientific progress than an artist in any other medium. He was the designer, not merely of buildings, but groups of buildings, which might extend to whole towns and cities, and his work must be judged in relation to these responsibilities.

To assess the value of a building, or group of buildings, as a work of art, all these factors must be taken into consideration, but particularly the last-named, where, over the course of history, new methods of construction had been evolved and from which new methods of architectural treatment had arisen.

This raised the familiar question of whether we were to regard all traditional styles based on outmoded methods of construction as themselves outmoded, a useless study for the young and a sign of hardening of the arteries in the old? He did not believe this was so and therefore probably confirmed the younger generation's judgement of him as a "dead loss" architecturally. He had made early contact with what he would refer to broadly as the "Modern Movement." The partners in his firm at that time, over 40 years ago, were John Honeyman, John Keppie and Charles Rennie Mackintosh. To say that he was not affected by these various influences would be wrong. His experience induced at least a tolerant attitude towards the relative merits of traditional expression and experiments in other forms. His conclusion was then—and he saw no reason to change it now—that the methods of expression were incidental to the merit of the work done and that, in the final analysis, it was the personal conviction of the artist and the

clarity of the message which he conveyed which determined the value of his work. He had the greatest sympathy with any artist's desire for a personal method of expression. But a building was not a picture hung on a wall, removable at will. It was a permanent contribution to the amenities of a city or a town or the countryside, and the truest artistry might well be achieved by conforming to an existing pattern or to the traditions of a neighbourhood.

The new president concluded by saying that, in his opinion, the future would show a growing public awareness of architectural values and a profession rising to a higher level of general competence, through systematic education, both in design and in all technical subjects.

Mr. Henderson, who is senior partner of John Keppie and Henderson and J. L. Gleave, of Glasgow, is the first architect practising in Scotland to be nominated as RIBA president. He was born in Auckland, New Zealand, and came to Britain in his early youth.

LCC

South Bank Memorial Gardens Proposed

The LCC have been considering a proposal that a memorial garden for Londoners who died during the war should be laid out on the South Bank. It has been suggested that this scheme should be carried out in collaboration with Charles Holden, the architectural and planning consultant for the redevelopment of the South Bank.

The South Bank sub-committee has decided, in principle, that the gardens might be placed between the river wall and the proposed government offices. Plans will be prepared as soon as more is known about these buildings. The committee also think it would be appropriate to lay out the whole of the riverside open space between County Hall and Waterloo Bridge as a memorial garden.

Council to Build Sheds and Garages

The LCC has decided that, in order to avoid the erection of unsightly structures on its estates, it will supply garages and sheds when tenants want them. A weekly charge will be made; 1s. for a shed and 3s. for a garage.

BRS

Building Research Congress

The Building Research Station, Watford, has arranged for a comprehensive Congress on building research to take place from September 11-20, 1951. It will be centred at the Institution of Civil Engineers, London.

The Congress has been planned in three divisions holding concurrent meetings. Division 1, which is concerned with the engineering and structural aspects of building, will cover the influence of mechanization and prefabrication on techniques and cost of building; the influence of modern research on structural design; and the influence of modern soil studies on the design and construction of foundations. Division 2, which is concerned with building materials, will cover individual materials such as burnt clay products, cement and concrete, building stones, lime, paints, plaster and timber, and there will be in addition a wide survey of research on weathering and durability of building materials. Division 3 will be concerned generally with the various factors

which influence the comfort and efficiency of the people using the buildings.

Membership of the Congress is open to all on payment of the fee of 50 shillings, which will cover attendance at the Congress sessions and will ensure that members receive all the papers printed in advance. The fee does not include the cost of excursions (for which separate fees will be fixed) nor attendance at the Congress dinner, tickets for which can be obtained at an extra cost of 42 shillings. Those who are interested in the Congress should apply to the Organizing Secretary, Building Research Congress 1951, Building Research Station, Watford, Herts., England.

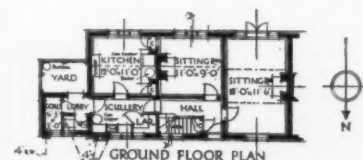
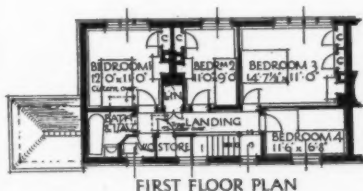
COMPETITION

Attempt to Reduce Housing Costs

In an attempt to reduce housing costs and to bring rents within reasonable limits, *The Builder* newspaper is holding a competition for terrace house designs. The house, which must not cost more than £1,000, apart from land, roads and sewers, is to be suitable for two adults and three children to live in.

The competition is open to architects in the United Kingdom; they may collaborate with members of allied professions and the building industry. Prizes will total £500. The assessors will be Sir Lancelot Keay, Arthur Kenyon and Sir Stephen Tallents. Conditions are obtainable from The Editor, *The Builder*, the Builder House, Catherine Street, W.C.2. Designs must be received by January 17, 1951. Competitors will be required to submit a certificate from an independent quantity surveyor with their entries, stating that a number of the houses could be built for not more than £1,000 each.

This competition follows the precedent set by *The Builder* after the 1914-18 war. The winners on that occasion, when the assessor was Professor S. D. Adshad, were Sifton and Thorpe and H. Clapham Lander. Readers may be interested in the winning design by Mr. Lander, illustrated below.



MOH

Problems of Flat dwellers

The social needs and problems of families living in flats are to be investigated. This work will be done by a Sub-Committee of the Central Housing Advisory Committee appointed by Aneurin Bevan. The chairman will be Henry Brooke.

Other members are:—Alderman G. B. Eddie, C. W. Gibson, Sir Lancelot H. Keay, J. W. Laing, P. L. Leigh-Breese, Professor J. M. Mackintosh, E. Murray and Mrs. B. Wilson.

Anyone who wants to give evidence to the Sub-Committee should do so through the joint secretaries, Miss M. Empson and J. C. H. Holden, MOH, Whitehall, S.W.1.

Advice on Care of Fittings

Practical advice on the care of fittings and equipment in the modern house is given in a report published recently by the Minister of Health, Aneurin Bevan. It has been prepared by a sub-committee of the Minister's Central Housing Advisory Committee. Its chairman was R. Coppock.

The report does not confine itself to practical hints of value only to the occupiers of houses. It also recommends various ways in which local authorities can help their tenants to find out the best way of handling fittings and equipment.

The Committee's main recommendations include the following:—(1) Authorities should provide themselves with a stock of all makers' instruction cards on the care and maintenance of the equipment in their houses to hand to their tenants. (2) If handbooks to tenants are prepared, instructions should be included on the care and maintenance of equipment, although information sheets or leaflets confined to separate and individual topics probably reach tenants' attention more effectively. (3) Authorities should encourage their tenants to attend demonstrations of the equipment installed in their houses, and should arrange for special demonstrations to tenants in particular difficulties and for the benefit of their own housing staffs. (4) As advice on care and maintenance is most effectively given in person and on the spot by an officer calling at the tenant's house, authorities should ensure that their rent collectors, who are the normal link between the tenant and the municipal landlord, have sufficient knowledge and are of the right calibre to carry out this work effectively. (5) Authorities should, in serious cases, make a charge towards the cost of repair work made necessary by negligence on the part of the tenant.

This publication, *Care of Fittings and Equipment in the Modern House*, is published by HMSO at 1s. 6d.

Economy in Use of Cement

The Minister of Health has stated that a number of authorities are not observing the recommendations of the Memorandum prepared by the Committee on Cement Economy and issued by the MOH, particularly those relating to oversite concrete and concrete for ground floors, cement rendering and the richness of mixes generally. The difficulties that had been experienced during the last few months in obtaining adequate supplies of cement for building work were, he said, a sufficient indication of the continuing need to avoid extravagance and the unnecessary use of cement. Moreover, compliance with the recommendations was, in fact, a means of reducing building costs.

He had therefore decided that he must now ask all authorities to give a specific assurance when proposals were put up for approval, that the recommendations in the Economy Memorandum would be fully observed. Where proposals had already been

approved, but tenders had not yet been invited, the recommendations should be embodied in the specifications and bills of quantities. He wished to make it clear that he would have no alternative but to insist on adherence to the terms of the Memorandum in cases which had not already reached the tender stage and in which it was practicable for the recommendations to be put into effect.

He appreciated that in some areas the use of macadam for housing estate roads was considerably more costly than concrete. Where, in such cases, alternative tenders were invited for concrete roads and macadam roads, in order to provide a sound basis on which to compare costs, he would be prepared to consider a relaxation of the ban on concrete roads in exceptional cases where the financial saving was sufficiently substantial to justify this course.

DSIR

Exhibits at Olympia

Four research stations will be contributing to the DSIR Stand at the Public Works and Municipal Services Congress and Exhibition at Olympia (until November 18). They are the Building Research Station, the Road Research Laboratory, the Water Pollution Research Laboratory and the National Physical Laboratory.

Research on bridge deck slabs forms the main part of the exhibit by the Building Research Station. A model will demonstrate the behaviour of a bridge under load and show that the load is not taken wholly by the beam immediately underneath it, but that the bridge deck slab has a definite distributing effect.

IRELAND

AA Officers Elected

The following are the officers of the Architectural Association in the Republic of Ireland for 1950-51:—*President*, W. P. Le Clerc; *vice-president*, C. Aliaga Kelly; *honorary treasurer*, H. P. Higginbotham; *honorary secretaries*, D. J. Kelly and W. M. Reidy.

The Committee are:—J. P. Alcock, B.A.R.C.H.; Miss S. O'Grady; T. Barton Kelly, H. S. Robson, T. L. Cullimore, S. Maskell, Miss Muriel Brown, D. Fitzgerald, B.A.R.C.H., and P. M. Delany.

DIARY

Exhibition of AA Members' Sketches. At 34, Bedford Square, W.C.1. Daily, 10 a.m. to 6 p.m.; Saturdays, 10 a.m. to 2 p.m. UNTIL NOV. 24

Arts and Crafts Exhibition. V & A Museum, Kensington. Daily, 10 a.m. to 6 p.m.; Sundays, 2.30 p.m. to 6 p.m. UNTIL NOV. 30

Lighting in the Home. Miss M. Wardlaw. At the Cadena Café, Eastgate Street, Gloucester. (Sponsor, IES.) 6.30 p.m. Nov. 16

AGM. At 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Nov. 16

Address by Stirrat Johnson-Marshall. At 13, Suffolk Street, W.C.2. (Sponsor, Students' Planning Group.) 6.15 p.m. Nov. 16

High-Pressure Hot Water Heating. J. R. Kell. At Imperial Hotel, Birmingham. (Sponsor, IHVE.) 6.30 p.m. Nov. 16

Introduction to Programming and Progressing for Builders. R. H. James. At Lecture Hall, Central Library, Corporation Street, Chesterfield. (Sponsor, MOW.) 7.15 p.m. Nov. 16

Good Practice in Plumbing. G. L. Ackers. At County Technical College, The Butts, Coventry. (Sponsor, MOW.) 7 p.m. Nov. 16

Get Town Planning Straight. Conference at London County Hall. Speakers will include J. D. Trustram Eve, B. J. Collins and Sir Thomas Bennett. (Sponsor, TCPA.) Daily, 10.30 a.m. to 12.30 p.m. and 2.15 p.m. to 4.15 p.m. Nov. 16 & 17

Introduction to Programming and Progressing for Builders. A. E. Chittenden. At the Regency Hall, Weeks Ltd., High Street, Newport, IOW. (Sponsor, MOW.) 7 p.m. Nov. 17

Design and its Contribution towards Economic Production and Marketing. Speakers: Robin Darwin, G. Dunn, F. J. Stratton, A. Whitaker. Sectional meeting at Management Conference at Harrogate. 11 a.m. (Sponsor, British Institute of Management, 8, Hill Street, W.1.) Nov. 17

Foundry Bridge, Abertillery. W. A. Evans. At County Buildings, Colwyn Bay. (Sponsor, ISE.) 6 p.m. Nov. 18

The Development of Contemporary Architecture. A course of lectures planned by Maxwell Fry and Jane Drew in collaboration with the MARS Group. At Morley College, 61, Westminster Bridge Road, S.E.1. Every Thursday (18 more lectures). 7.45 p.m. EVERY THURSDAY.

Exhibition of Danish Design. At Rayon Design Centre, 1, Upper Grosvenor Street, W.1. 10 a.m. to 4 p.m. (except Saturdays and Sundays). Nov. 17 to DEC. 8

Economy in Traditional House Building. N. S. Pippard. At the Lecture Room, Central Library, Burnley. (Sponsor, MOW.) 7.15 p.m. Nov. 21

Sanitary Services: Their Effect on the Planning and Design of Buildings. F. L. Barrow. At 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. Nov. 21

Essentials of Good Concreting. E. E. H. Bate. At the Physics Lecture Theatre, Royal Fort, Bristol, 8. (Sponsor, MOW.) 7.30 p.m. Nov. 21

Plate and Armour Glass. P. M. Davidson. At Ca'doru Restaurant, Glasgow. (Sponsor, ISE.) Nov. 21

British Standards and Codes of Practice for Building. C. Roland Woods. At Main Hall, Southern Grammar School for Girls, Fawcett Road, Southsea. (Sponsor, MOW.) 7 p.m. Nov. 21

Industry and the Citizen. Ian Mikardo. At 13, Suffolk Street, W.C.2. (Sponsor, TCPA.) 1.15 p.m. Nov. 22

Cities Without Smoke. Albert Parker. At RSA, John Adam Street, W.C.2. 2.30 p.m. Nov. 22

Essentials of Good Concreting. E. E. H. Bate. At Town Hall, Devizes. (Sponsor, MOW.) 7.30 p.m. Nov. 22

An Investigation of the Strength of Welded Portal Frame Connecting under Compressive Loading and an Investigation of the Strength of Certain Welded Portal Frames in Relation to the Plastic Method of Design. Dr. A. W. Hendry. At 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. Nov. 23

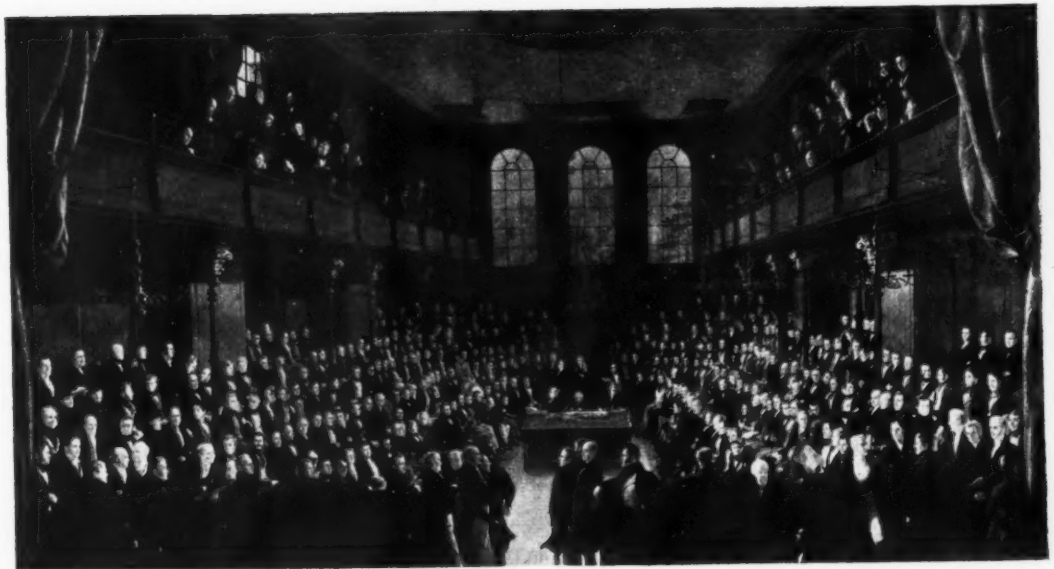
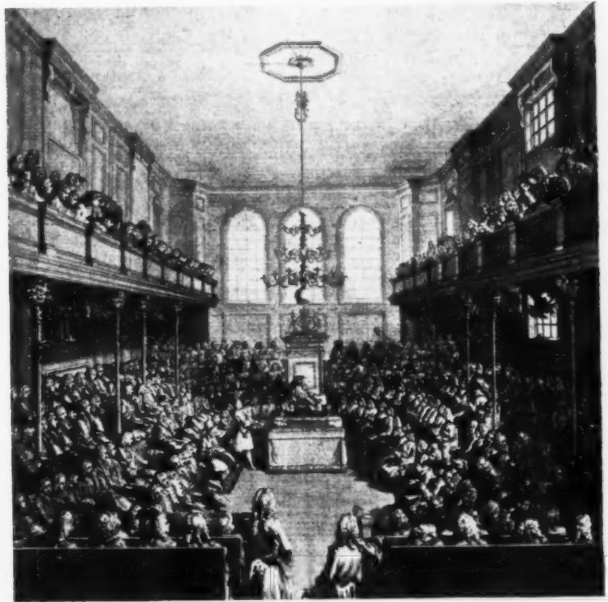
Good Practice in Domestic Drainage. F. J. Crabb. At the Carnegie Hall, Abington Street, Northampton. (Sponsor, MOW.) 7.15 p.m. Nov. 23

The Design and Construction of Development and Research Building, Newcastle. F. S. Snow. At College of Technology, Manchester. (Sponsor, ISE.) 7 p.m. Nov. 23

The Use of Plastic Models in Designing Modern Structures. W. G. Carter. At James Watt Memorial Institute, Birmingham. (Sponsor, ISE.) 6 p.m. Nov. 24

Building Teachers' Conference. At Northern Polytechnic, Holloway, N.7. (Secretary, A. Emms, Technical College, Gravesend, Kent.) Nov. 25

THE HOUSE OF COMMONS: FROM 1600 TO 1950

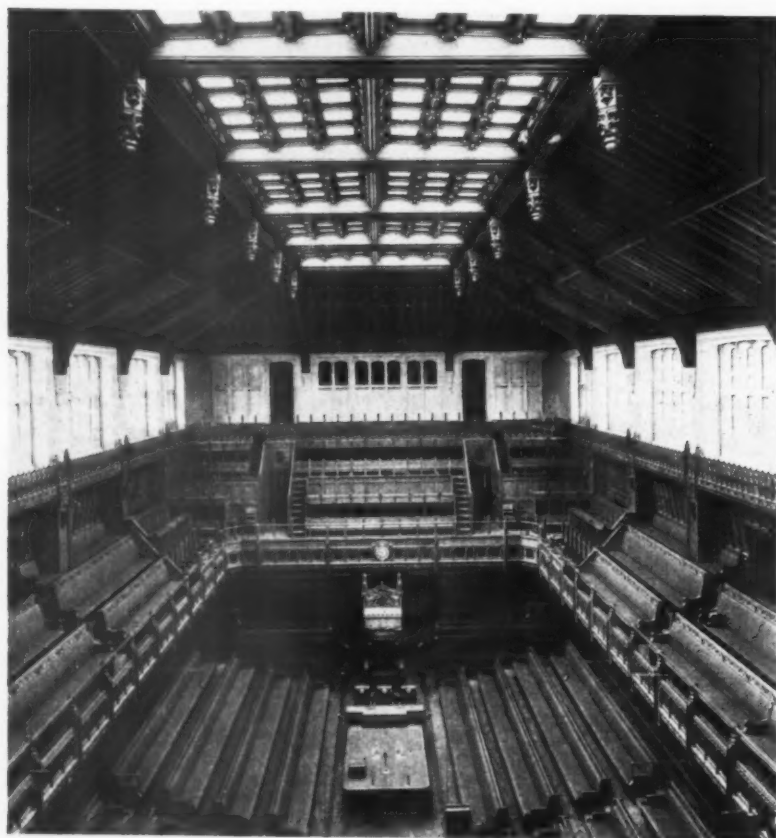


Something of the history of the House of Commons in St. Stephen's is shown in this sequence of pictures. Top: left, the Commons in St. Stephen's Chapel (1624); right, the interior of St. Stephen's (1749) after Sir Christopher Wren had inserted a low ceiling panelling and galleries. Above, scarcely noticeable alterations had been made by Wyatt when the first reformed Parliament sat in 1883. Left, St. Stephen's Hall, built on the site of the Chapel (destroyed by fire, 1834), where the Commons met on August 15, 1945, before moving temporarily into the House of Lords. (See also overleaf.)

THE HOUSE OF COMMONS [continued]



The above photograph, showing Barry's Chamber (destroyed in 1941), together with the photographs on the previous page, appear in the book "Parliament House," by Maurice Hastings (Architectural Press : 12s. 6d.). Below, the new Chamber, which is described and illustrated on pages 392 to 402.



F. R. YERBURY

What Documentation means to the Architect

Last month, in Paris, the International Council for Building Documentation was brought formally into existence at a conference attended by the representatives of 23 nations and 12 international organizations. How does this affect the practising architect in this country?

Documentation is a wide term covering practically everything to do with the recording and transmission of information. It is not confined to library practice. Libraries are an important link in the chain from the man who produces information to the man who uses it. But documentation is concerned with the writing of articles and books, their publication, format, layout and their circulation. It is concerned with the organization and collection of information and with the methods of making it available, either currently or on demand.

Membership of the International Council is open to National Building Documentation Committees which are representative of the various sides of building. In all countries where National Committees have been formed, architects have taken a prominent part. In this country the RIBA is represented by Denzil Nield and the AA by R. E. Enthoven, while Gontran Goulden is also a member of the British Committee. On the international plane, both at the preliminary conference in Geneva in 1949 and at Paris in 1950, the International Union of Architects and the International Congress of Modern Architecture were invited to send representatives; these spoke in the General Assembly and assisted in the various Working Parties. Of the eight members of the newly-elected Executive Committee of the International Council three are architects.

NATIONAL COMMITTEES FORMED

The first result of the international work has been the creation of National Building Documentation Committees. These committees are already in being in France, Belgium, Holland, Italy, Portugal, Denmark, Norway, Sweden and the UK. Several other countries are already preparing to set them up. In Czechoslovakia, Poland, Roumania and Bulgaria government-sponsored building documentation centres exist. Thus, in each of these countries there is a body responsible for surveying the national building literature and being aware of developments in its own country. These bodies are linked through the International Council and are prepared to co-operate with one another.

There is, therefore, a live contact between all participating countries. If an architect in Sweden wants to know about kitchen design or of hospital design in Poland, there is an established line of communication through which the answer can be obtained. If an architect visiting France wishes to see examples of prestressed concrete construction or a particular type of house, his National Committee can put him in touch with the authorities who can tell him where they are to be found and arrange introductions.

One of the most important of the functions of the new International Council is the arrangement for the regular exchange of information through the medium of abstracts. Each participating country undertakes to

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HANGAR AT KASTRUP, DENMARK

abstract the most important of their national publications, books, pamphlets or articles and to exchange the abstracts with all other participating countries. The abstracts are either in French or English, so that the multiplicity of languages is eliminated. They are of agreed format and carry classification numbers on the Universal Decimal system, as used by the RIBA and MOW. Thus, national centres will be able without difficulty to maintain complete index files of abstracts of papers selected by the national committees as being of greatest value. Even with some of the countries not participating, it will give better coverage than ever before; and it is probable that co-operation will be achieved so as to cover the literature of non-participating countries.

A question of importance is: How will the information be passed to the user? It can be done in a variety of ways, which will probably proceed simultaneously. One way will be the publication of abstracts, like the well-known Building Science Abstracts, but with a wider range of subject matter. These will include some from English sources together with a selection of others received from abroad. Most of the originals will be available in this country, either in the original form or by means of photostat or microfilm.

Another way of getting the information to the user is for a writer to use the abstracts as a guide to source material for reviewing a particular subject. In the future, those whose job it is to inform the architect will have a reliable index at their command.

Abstract journals on the internationally recommended model have already been produced in Sweden, Italy, Austria and France, while other countries are preparing them. In England, however, we have not yet, unfortunately, made the same progress; this is mainly due to our being ahead of most countries in our services, involving more serious changes than in countries not already possessing them.

An interesting development of the International Council is the encouragement of the preparation of descriptive building sheets. These will describe modern buildings and will include photographs, plans, elevations and many of the details that are frequently omitted by periodical articles. The Council has specified size, layout and classification for the sheets and recommended that the description should be in English or French in addition to the native language. These sheets from all sources can be filed together to form an architects' reference album. They were first produced in Holland and are now coming out in Italy and France.

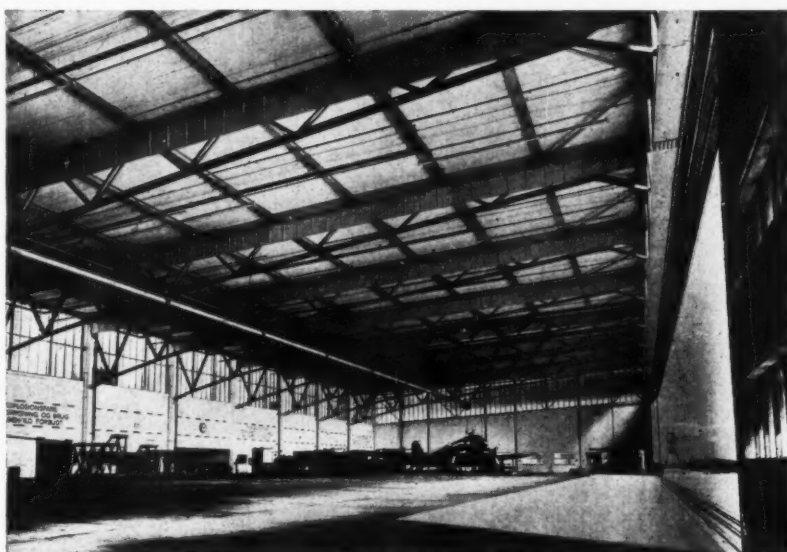
A task assigned to the international working party is to evolve a filing system for use in architects' and builders' offices.

BUILDING TERMINOLOGY

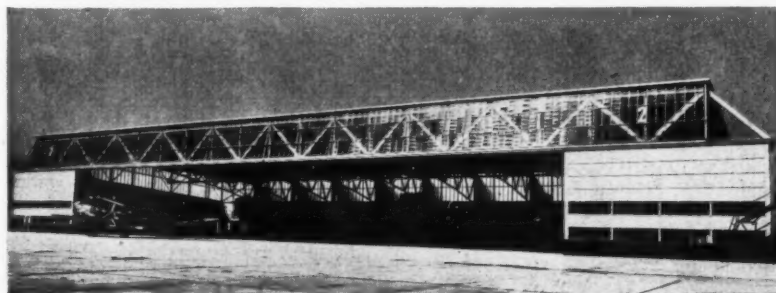
A longer-term project already under way is concerned with terminology. Each of several countries is charged with the task of preparing a standard list of building terms with agreed definitions; simultaneously, the preparation of interlingual glossaries of terms within certain sections is proceeding. Thus translation should become more precise.

A recommendation of the Council, which should be helpful to architects, is that articles written in languages other than French or English should be provided with a summary in one of those two key languages and that the headings, captions and legends of illustrations should also be given in French or English. This practice, already largely adopted in Scandinavia, should make the intelligent study of the foreign literature much more widely possible.

The Council has also made recommendations for standardizing trade literature. The standardization achieved by Sweet's Catalog in America and by the Architects' Standard Catalogue in this country are practical examples of how such a scheme could be made to work, but experience with the British Standard 1311, produced three years ago, precludes too sanguine a view.



This hangar was designed by a Danish engineer, O. Brodsgaard, for Scandinavian Air Services. Steelwork was fabricated in England and erected at Kastrup Airfield, Copenhagen; the welding was carried out by British workmen using British equipment. The hangar is of single span construction, 100 m. long by 45 m. wide. British mild steel (B.S.S. 15) has been used and the hangars are designed to a safe stress of 12 tons per square inch which satisfies Danish specifications. The welded main girder, 100 m. long and 5 m. deep, weighs 120 tons. On account of the sliding doors under it, only small deflection could be tolerated. This has been achieved by prestressing the steel. The girder forms the horizontal member of a 2-hinged tied rigid frame, two steel tensile bars cast into the concrete floor taking the horizontal reaction. These were not welded to the columns until the hangar was complete, movement of the columns having been restrained by four 100 ton jacks. In order to further save steel, the concrete workshops at the rear have been used as a counter weight and 46-ft. of the main roof is cantilevered over the hangar, so that the 42-in. cross beams only span 94-ft. (from the end of the cantilever to the main girder) instead of the full depth of the hangar—140-ft. Hence the load on the main girder was reduced by over 30%. The roof is covered with precast lightweight clinker concrete units 6 in. thick and 5 m. long. Steel used in the hangar weighs approximately 20 lb per square foot of floor area. The steelwork was supplied and erected by Hills (West Bromwich) Ltd.





The amount of constructional work carried out in the New Towns and the amount of time spent in the preparation of plans and in the settling of legal matters are points of interest to architects today. On this and the following page, D. Rigby Childs continues his series of reports on progress made in what has been described as the most exciting experiment of the century. The last reports appeared in the Journals on August 31 and September 21.

NEW TOWNS: No. 5

Progress report on Basildon by D. Rigby Childs.

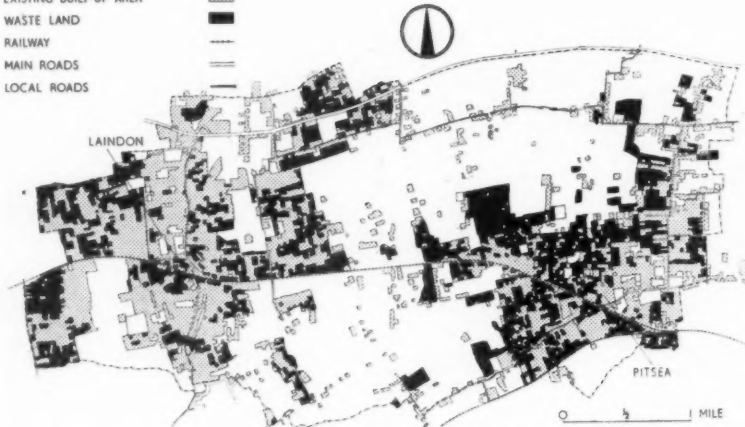
The advantages of establishing a new town in the area of Laindon and Pitsea were first put forward by the Billericay UDC and the Essex County Council. The proposal was confirmed in 1945 by the Advisory Committee for London Regional Planning. The intention of the proposal is that: the new town should partly accommodate population and industry moved out from London, and partly be a means of introducing ordinary public and social services into an area of sporadic semi-urban development.

The ultimate size of population is to be 50,000 persons. The new population is to come from the overcrowded areas of East London.

The name of Basildon comes from the name of the present village which lies between Laindon and Pitsea. The site of the new town is in Essex and the southern boundary is about two miles from the Thames Estuary. The existing population is about 25,000 persons. The topography is undulating. Two ridges divide the site: the one east to west rises to nearly 400 feet and the one north to south rises to about 150 feet.

The soil is Essex clay. Many acres of

BOUNDARY OF DESIGNATED AREA
EXISTING BUILT-UP AREA
WASTE LAND
RAILWAY
MAIN ROADS
LOCAL ROADS



Plan of Basildon.

scrub and wasteland occur around Laindon and Pitsea, and owing to the haphazard nature of the development, little farming is carried on in the immediate vicinity of these communities.

DEVELOPMENT CORPORATION

The Development Corporation includes the following members and staff: chairman, Sir Lancelot Keay; deputy chairman, E. L. Protheroe; chief architect planner, N. Tweddell; chief engineer, H. W. Dupree.

The outside architects so far engaged by the Corporation are Norman and Dawbarn, who are architects for the housing on which site work is about to start.

PROGRESS

1948: December. — Designation Order made for 7,834 acres.

1949: September. — Preparation of master plan begins.

1950: August. — The first building construction contract let.

The acreage of land acquired to date is 234 acres.

Building work will shortly begin on the construction of 204 houses and the site for the first factory is being prepared.

PROGRAMME

The master plan is still under preparation and the Corporation hope to submit the master plan for approval and comments this autumn.

COMMENT

Among the new towns Basildon is in a category of its own. Within the designated area there already live more people than in any other new town site. The greater part of this population live in single-story dwellings, many of which are of flimsy construction. Probably not more than 10%-15% of these dwellings front on to a made-up road and possess main drainage. Elsewhere access is generally from a grass track which in winter-time is often impassable to wheeled vehicles. Water and electricity is, however, supplied to nearly all the households—the distribution of electricity is largely overhead.

Laindon and Pitsea are sometimes described as a shack development area. Although there is a good deal of truth in this, the term does not convey a proper idea of the appearance of the area which, on the whole is really quite pleasant, due to the camouflaging effect of many well grown trees and hedgerows that are scattered around the

building plots. And, in the plots themselves the gardens are often intensively cultivated. The bungalows were mainly built for holiday use but due to war-time evacuation and post-war scarcity of houses, people are now living in Basildon on a permanent basis. The present population are either old people who have retired into the country, or London workers and their families. Very few schools, and other public buildings and amenities exist.

While the Development Corporation are making their plans for the building of the new town, the Essex CC are planning the building of a housing estate, about a mile south of Basildon at Corringham, in conjunction with Stanford le Hope, for some 20,000 people from suburban areas working in the Thames Estuary industries, particularly around Shellhaven.

An especially difficult architectural problem exists through the necessity of having to build a large number of the new houses and flats on the many vacant sites that are to be found among the existing development. Many of the sites are under 2-3 acres in size so that it is likely to be difficult to obtain a satisfactory form of development through the admixture of new houses into an area of existing bungalows and huts. A further difficulty experienced by the Corporation is that owing to the large number of ownerships into which the land is divided, acquisition of land is a lengthy undertaking—many of the owners cannot even be traced.

Then, a complicating factor in the planning of the new town is that the Corporation is receiving, through the Essex County Council, many applications for planning permissions for building among the existing developments. Although this kind of building cannot be stopped, its effect will be to increase the difficulties of re-development.

In building, special measures will have to be taken as generally the sub-soil is Essex clay which is both shrinkable and sulphate bearing.

NOTES ON PROGRESS

Work during the first year of the Corporation's life was severely restricted by lack of adequate accommodation. Work really began only in October, 1949.

The architectural staff number ten persons: only about ten per cent. of their time is spent on master plan preparation, as the Corporation have been pressed to make a start on building work. Apart from housing, work on the construction of the first factory, to accommodate milk processing plant, for the South East Essex Wholesale Dairies, Ltd. has begun.

NEW TOWNS: No. 6

Progress report on Harlow
by D. Rigby Childs

As far as is known the proposal for a new town at Harlow was first made in the Greater London plan, 1944. The purpose is to receive population and industry transferred from the London area. The ultimate size of the population is to be 60,000 persons.

Harlow is situated mainly in Essex but a very small part is in Hertfordshire. The site is practically all open country. It contains an existing population of about 4,500 persons, of which more than half are in Old Harlow.

The topography is undulating. The designated area is divided roughly into four prominences by valleys running north and south, east and west.

DEVELOPMENT CORPORATION

The Development Corporation is made up as follows:—Chairman, R. R. Costain; deputy chairman, R. O. C. Hurst; general manager, W. Eric Adams; architect/planner, Frederick Gibberd; executive architect, Victor Hammett; engineer, O. W. Gilmour; planning consultant, Frederick Gibberd, who was responsible for the preparation of the Harlow Master Plan.

Outside architects engaged by the Development Corporation are:—Frederick Gibberd (as private architect), E. Maxwell Fry, E. C. P. Monson, Richard Sheppard, H. T. Cadbury Brown, F. R. S. Yorke and Design Units within the Corporation Offices, working as autonomous groups on similar basis as above-named.

The architects are all engaged on housing. Each architect or design unit is responsible for the detailed planning of a particular area. The architects work under the Corporation's general direction and in collaboration with one another. It is expected that this method of working will lead to variety in the layout and design of the housing areas but that nevertheless a sense of general harmony and continuity will be maintained.

PROGRESS

1946: September.—Draft Designation Order made. Work began of "walking the area" and surveying.

1947: March.—Designation Order made for 6,320 acres.

1948: January.—Draft Master Plan submitted by the Development Corporation to the Minister of Town and Country Planning.

December.—Report of the draft master plan published under the title of *Harlow New Town*. (Copies obtainable from The Development Corporation, price 5s.)

1949: January.—First building contract let. This was for 98 houses in Old Harlow, in an area not likely to be affected by any possible changes in the master plan.

March.—The Minister of Town and Country Planning gave his general approval of the draft master plan.

1950: July.—By this month approximately 1,350 acres of land had been acquired. The number of houses (all types) completed were 104. No other buildings had been completed up to July.

The number of buildings now under construction are: Houses (all types), 423; flats (all types), 197; factory for British Hydromechanics Research Association, 1;

standard factories, 2; tenants club room, 1; vicarage, 1.

Total expenditure on constructional works completed or in progress by the end of July was £1,435,721. (Civil engineering, £278,300; building construction, £1,157,421.)

Reliable information on size of total labour force is not available owing, the Corporation states, to lack of precise information on labour employed by sub-contractors.

PROGRAMME

The aim for intake of new population over the next two and a half years is as follows: June, 1951, total number, 960 persons.

June, 1952, further 2,230 to make total number of 3,190 persons.

January, 1953, further 1,340 to make total number of 4,530 persons.

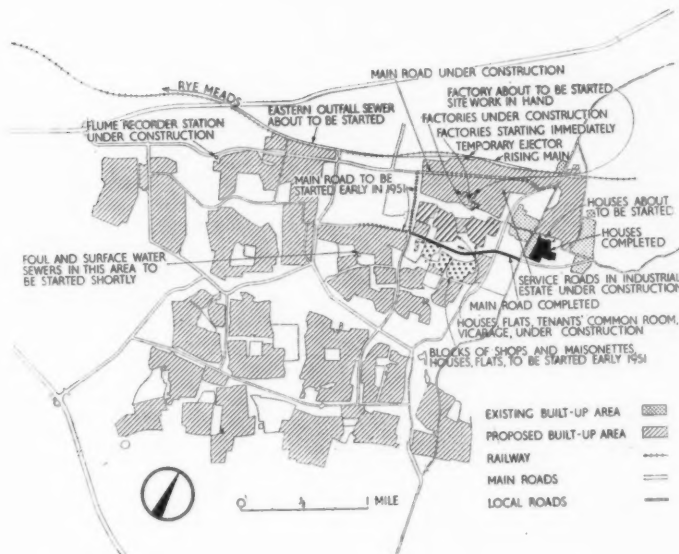
COMMENT

The plan for the new town has been evolved around the structure of a very beautiful stretch of Essex landscape. Although the plan is a "landscape plan" it breaks away from the character of the traditional garden city or green belt town in that it provides built-up areas in which there is a definite town sense. The built-up areas with buildings as the dominant

element contrast with the landscape in which natural things predominate.

In Harlow the provision of adequate sewerage facilities has to be considered on a regional level. Both Stevenage and Harlow are in an area known as the Middle Lea Valley. The proposal to increase the existing population in the valley by 100,000 by the building of these two new towns has brought into prominence the Middle Lea sewerage scheme. In the Middle Lea Valley the disposal of sewerage and effluent from the large number of small and medium sized communities in the area, e.g., Ware, Hertford, Bishops Stortford, Sawbridgeworth has been a problem for nearly 100 years as the River Lea is one of the sources of London's water supply.

The Development Corporation at Harlow is meeting the short-term needs of the new town through an extension of the sewage disposal works of the Epping Rural District Council, the local authority for the area. For a long-term solution the Corporation is laying a trunk sewer along the north of the designated area to Rye Meads — at present the site of a sewage disposal works run by the Ware Rural District Council. Extensive sand and gravel beds exist on this site and the treatment works to meet the needs of Harlow, probably Stevenage, and possibly the Middle Valley will be sited there.



Plan of Harlow.

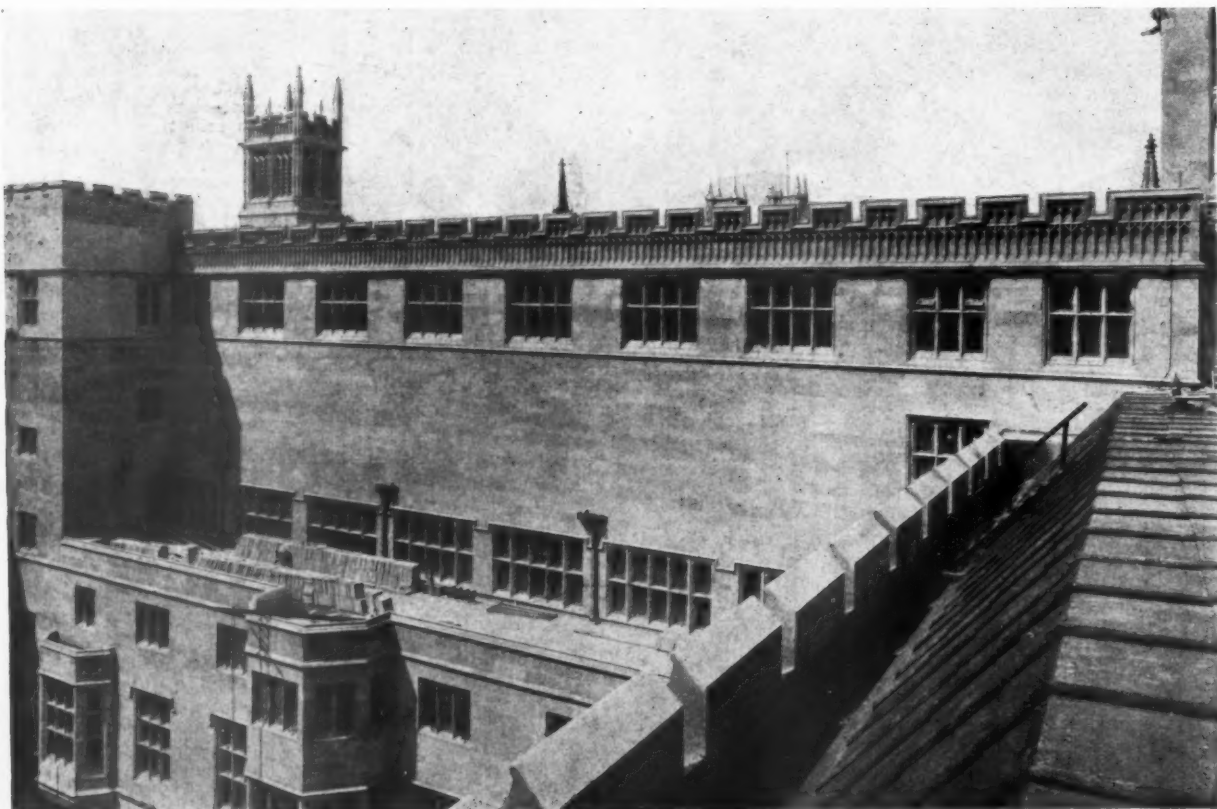


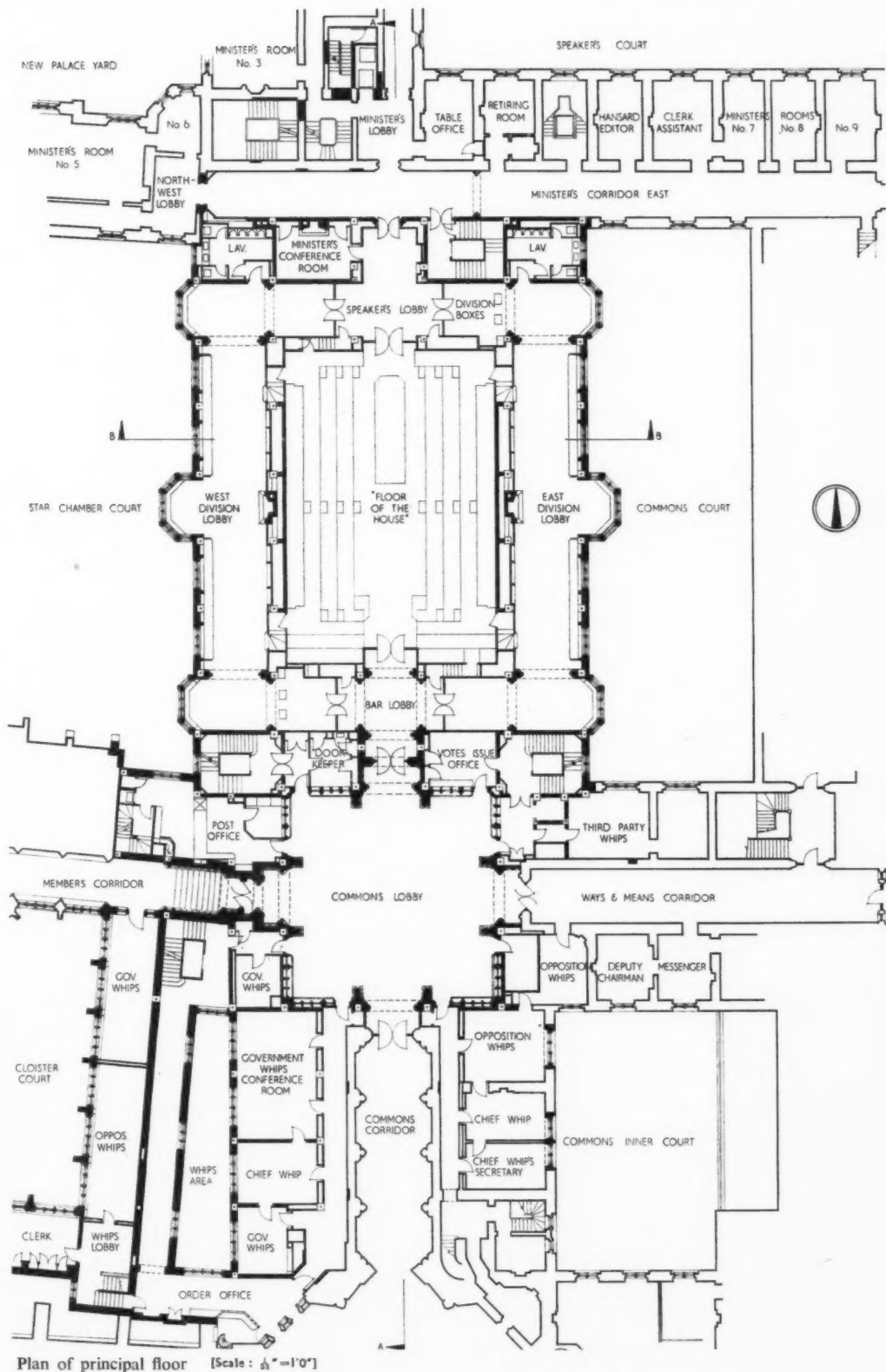
HOUSE OF COMMONS

designed by SIR GILES GILBERT SCOTT
and ADRIAN GILBERT SCOTT

The new Chamber, which was handed over by the MOW for occupation by the Commons on October 26, replaces the old House of Commons destroyed by enemy action in May, 1941. The new House conforms generally to the recommendations of the Select Committee which was set up in December, 1943, to consider the rebuilding. Clearance of the site was begun in May, 1945. The MOW was made responsible for ensuring that the new building was in accordance with the Select Committee's Report.

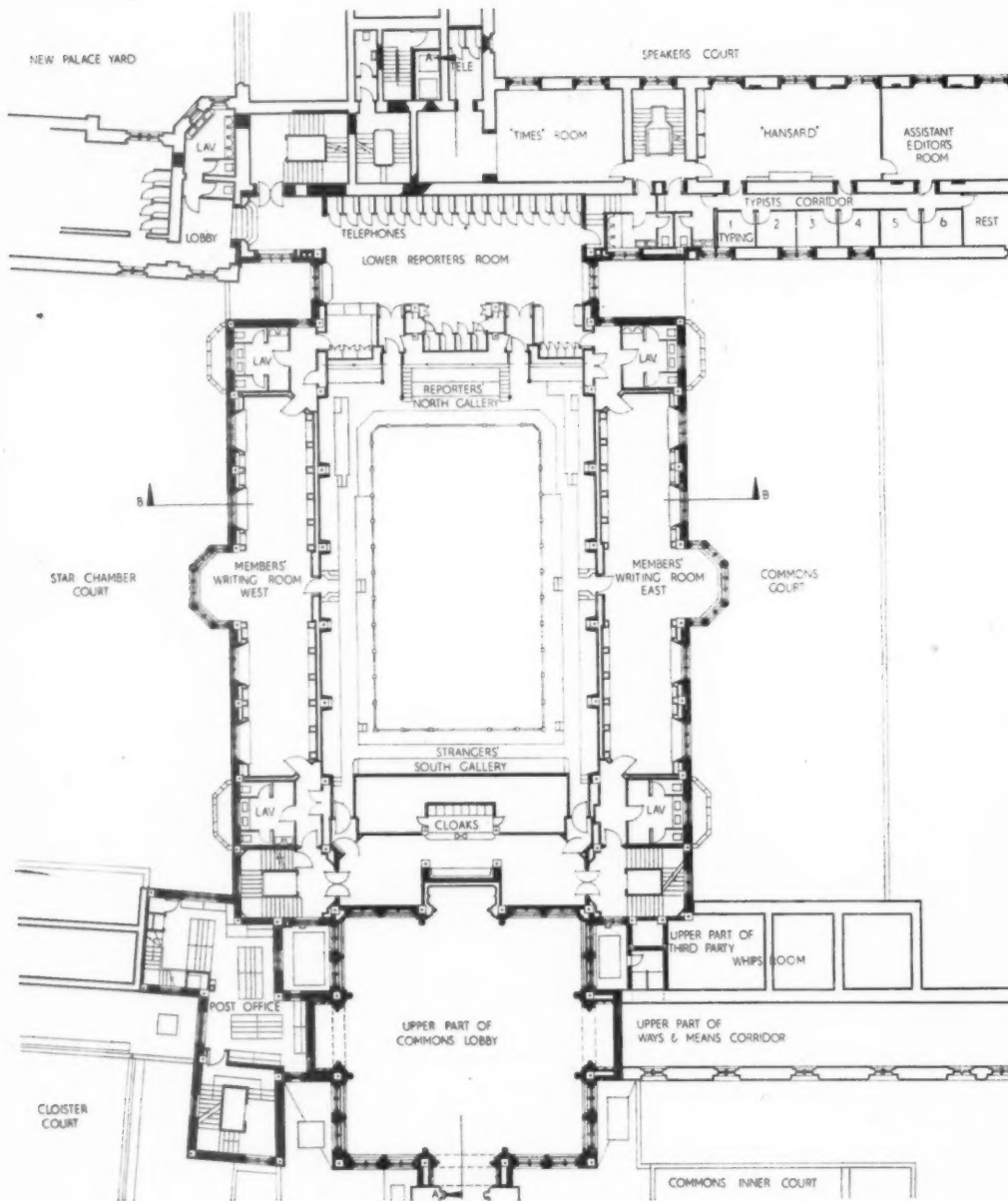
New east facade and vent tower.





GENERAL.—Among the observations made by the Select Committee were the following. That the sense of intimacy and almost conversational form of debate encouraged by the dimensions of the old chamber should be maintained. That the need for increased and better accommodation for strangers,

and particularly for the Press, meant that both end galleries should be enlarged and a third row provided at the back of the side galleries. That the design should be thoroughly in keeping with the rest of the Palace of Westminster while the decorative treatment should be altogether fresher, lighter,



Principal floor, mezzanine plan
(Scale: $\frac{1}{16}'' = 1'-0''$)

KEY :

- 1 Motor room
- 2 Ladies' lavatory
- 3 Men's lavatory
- 4 Telephones
- 5 Conference room
- 6 Interviewing room
- 7 Secretarial room
- 8 Sales
- 9 Engineers' store
- 10 Switch room
- 11 Ventilation plant room "A"
- 12 Typing order office
- 13 Lower ground floor lounge
- 14 Ministers' rooms
- 15 Press typewriter room
- 16 Hansard messengers
- 17 Messenger
- 18 Vote office
- 19 Ministers' conference room
- 20 Police room
- 21 MOW rest room
- 22 MOW messenger
- 23 Clerks
- 24 MOW Supt. of Works

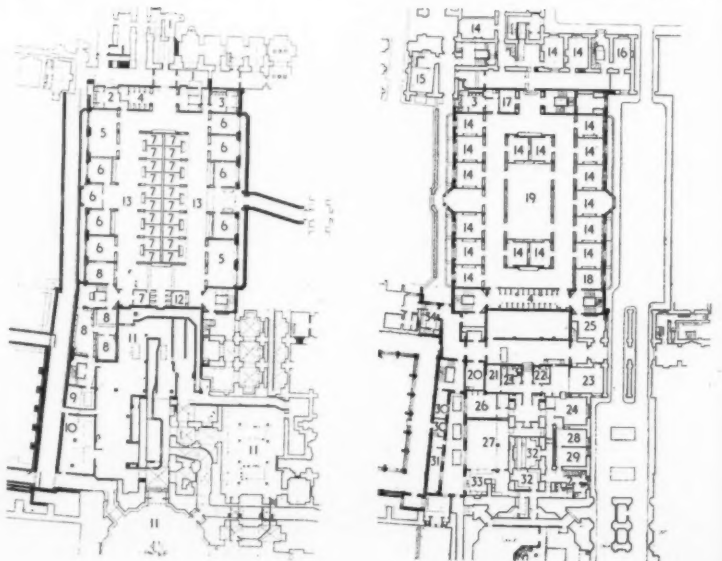
Below left, lower ground floor plan.
Below, ground floor plan
(Scale: $\frac{1}{16}'' = 1'-0''$)

HOUSE OF COMMONS

designed by SIR GILES GILBERT SCOTT
and ADRIAN GILBERT SCOTT

and more alive than that of the old chamber. That there should be a thoroughly up-to-date system of heating, ventilating and lighting. That secretarial, interviewing and conference rooms not hitherto available to members, should be provided. That there should be considerable improvements to the Whips' and staff offices and improved access to all parts of the house.

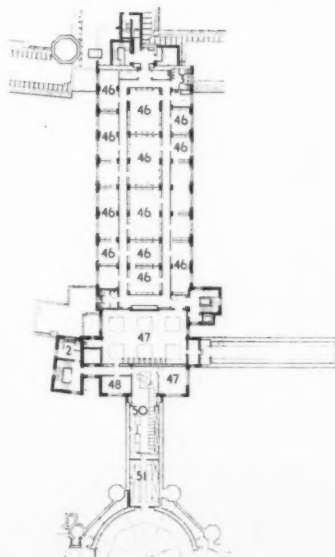
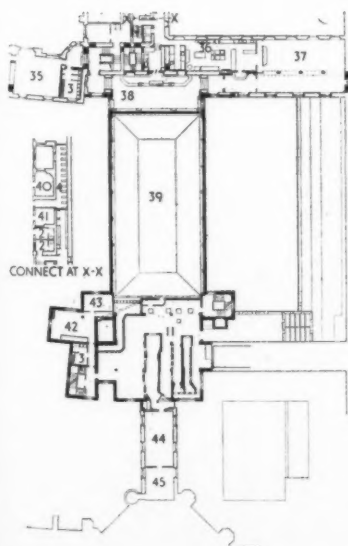
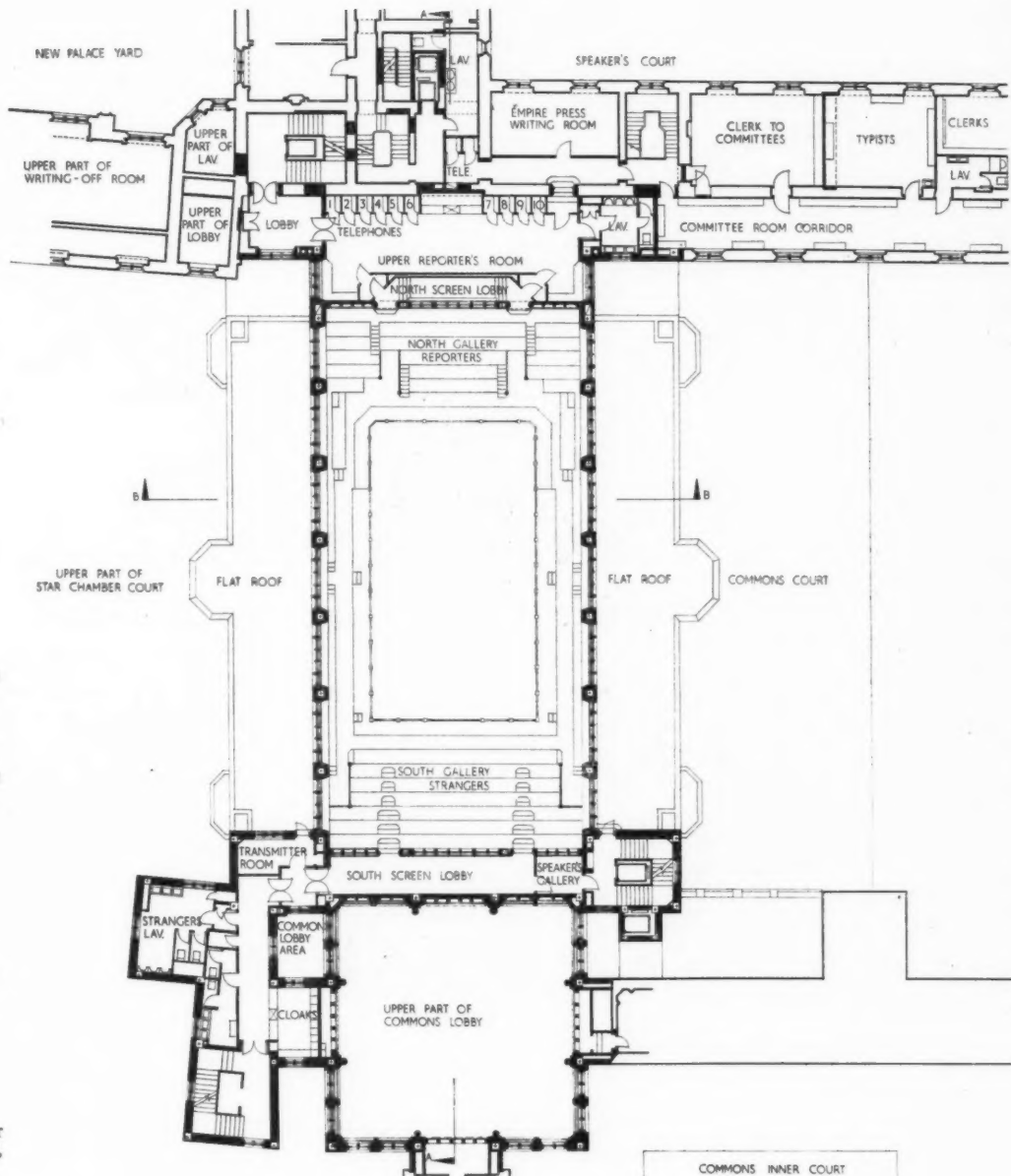
CONSTRUCTION.—The rebuilding of the chamber and its extra offices has been confined to an area restricted by the surrounding buildings and



First, floor plan

- 25 Votes staff
- 26 MOW surveyor
- 27 Canteen
- 28 MOW engineer clerk
- 29 MOW engineer
- 30 MOW store
- 31 MOW foreman
- 32 Counter bar
- 33 Kitchen
- 34 Post Office despatch
- 35 Reporters' library and meeting room
- 36 Reporters' kitchen
- 37 Reporters' dining room
- 38 Reporters' buffet
- 39 Ventilation and lighting space
- 40 Badge messengers' room
- 41 Ladies' rest room
- 42 Annunciator battery room
- 43 Relay room
- 44 Gasfitters' shop
- 45 Engineers' foreman
- 46 Clerk of the House
- 47 Secretaries' typing room
- 48 Secretaries' rest room
- 49 Traffic welfare room
- 50 GPO
- 51 Electrical apparatus

Below, second floor plan. Below right, third floor plan



limited in height by the necessity of not interfering with the skyline of the old Houses of Parliament. The new House is designed as a steel-framed structure and has been erected on the original plain lime concrete raft, which is about 5 ft. thick and extends over most of the site. In the old building, however, the loads were well distributed along the many load-bearing walls, but with the steel-framed construction the loads were concentrated at the stanchions and varied up to about 600 tons. The old concrete raft was inadequate to deal with such loads and as the top was within a few inches of the required finished floor level, it was not possible to construct the bases of the new stanchions above raft level. The alternative of cutting holes through the raft of sufficient size to enable new reinforced-



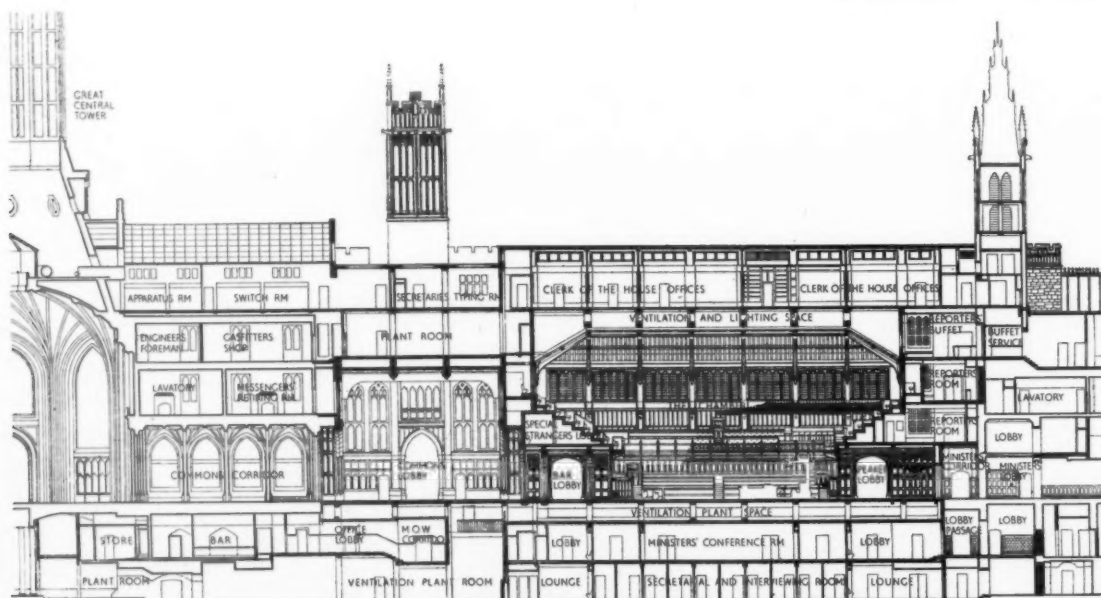
The new east facade, on the left of the photograph, and the north vent tower.

concrete foundations to be constructed on the ground thus exposed, would have been possible but extremely expensive. Therefore it was decided to allow the existing raft to assist in carrying these loads by setting the new reinforced-concrete bases partly into the raft, the sides of the bases sloping up at an angle of 45 degrees. The pressure between the new bases and the raft was limited to 6 tons per sq. ft. The loads from the reinforced-concrete bases were then spread by the raft to the required value of 2 tons per sq. ft. on the ground. The asphalt tanking has been carried down under the new bases and experiments were made with various asphalts to determine the most satisfactory type to carry the 6 tons per sq. ft. pressure without "squeeze." Because of the proximity to the debating chamber it was essential to reduce the noise of construction to a minimum and site riveting of the steel frame was prohibited. The steelwork connections were arranged so that as much work as possible was carried out in the shops by riveting, the completion of the connections on the site being by welding and bolting. Mild steel was used throughout except for girders spanning about 50 ft. over the Commons lobby. Here the architectural requirements limited the width and depth available for these girders and it was necessary to construct them of high tensile

HOUSE OF COMMONS

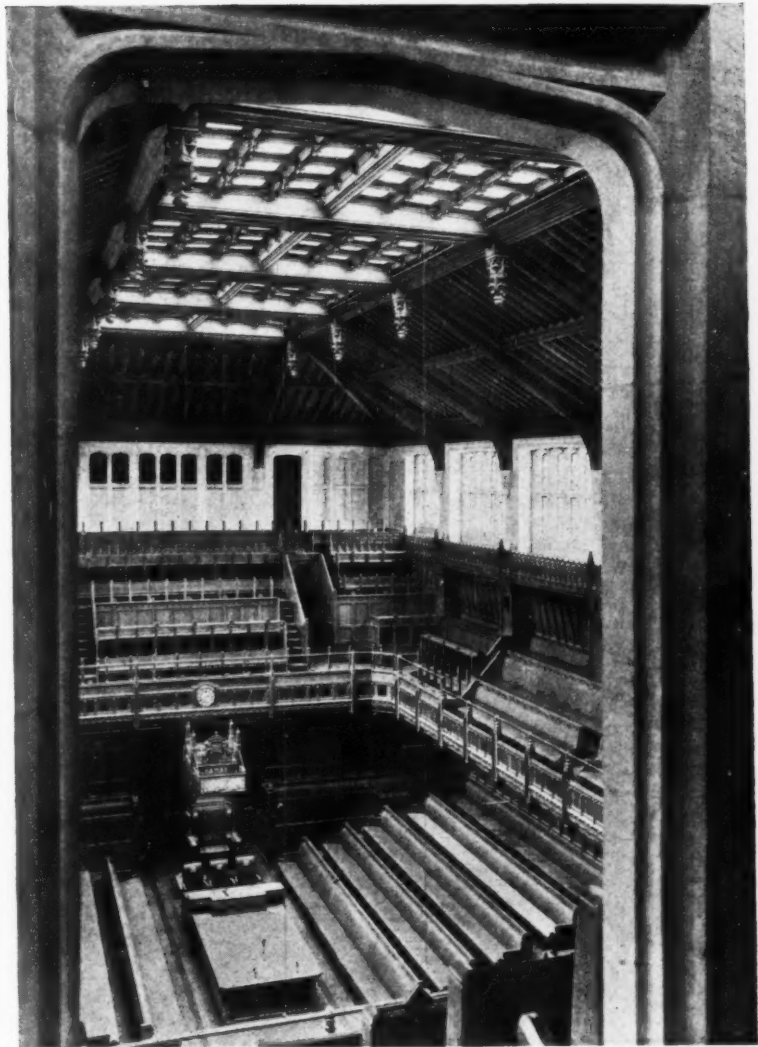
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Section A-A [Scale: 1/4" = 1'0"]



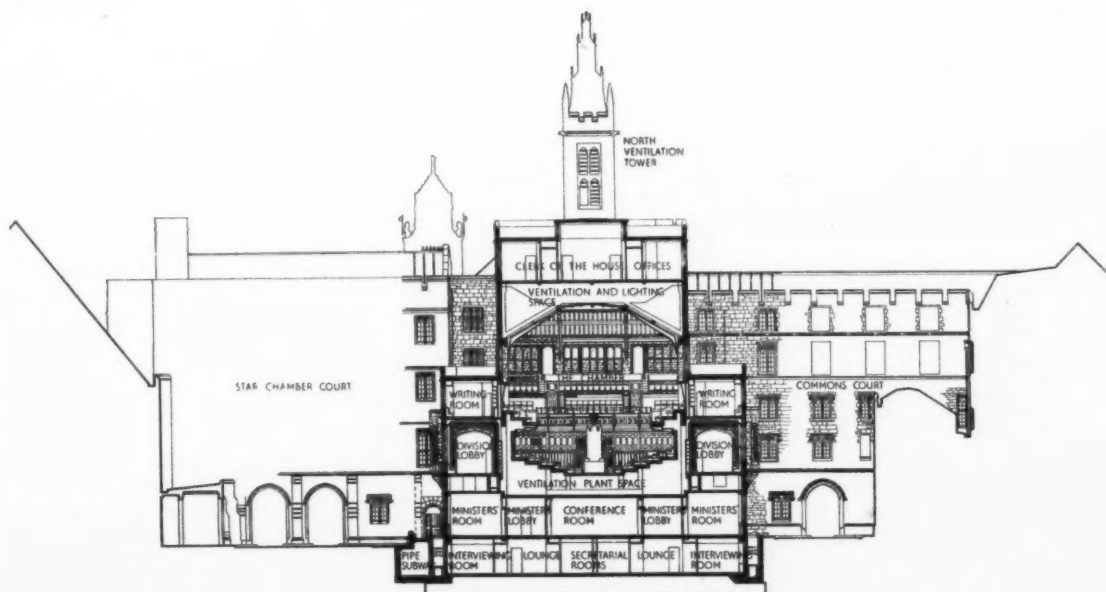
steel. Floors generally are of reinforced concrete slabs or of hollow tile construction, although in certain cases where it would have been difficult to erect and remove shuttering, precast flooring units were employed. The exterior and interior masonry is practically all in Clipsham stone. The stonework was worked by various firms and then brought to the site for fixing. Portland and Caen stone is used for the restoration of the old cloisters adjoining the new buildings. The entrance to the Chamber from the Commons lobby is through an archway known as the Churchill arch, built from the considerably damaged stones which remained in this position after the destruction of the old chamber.

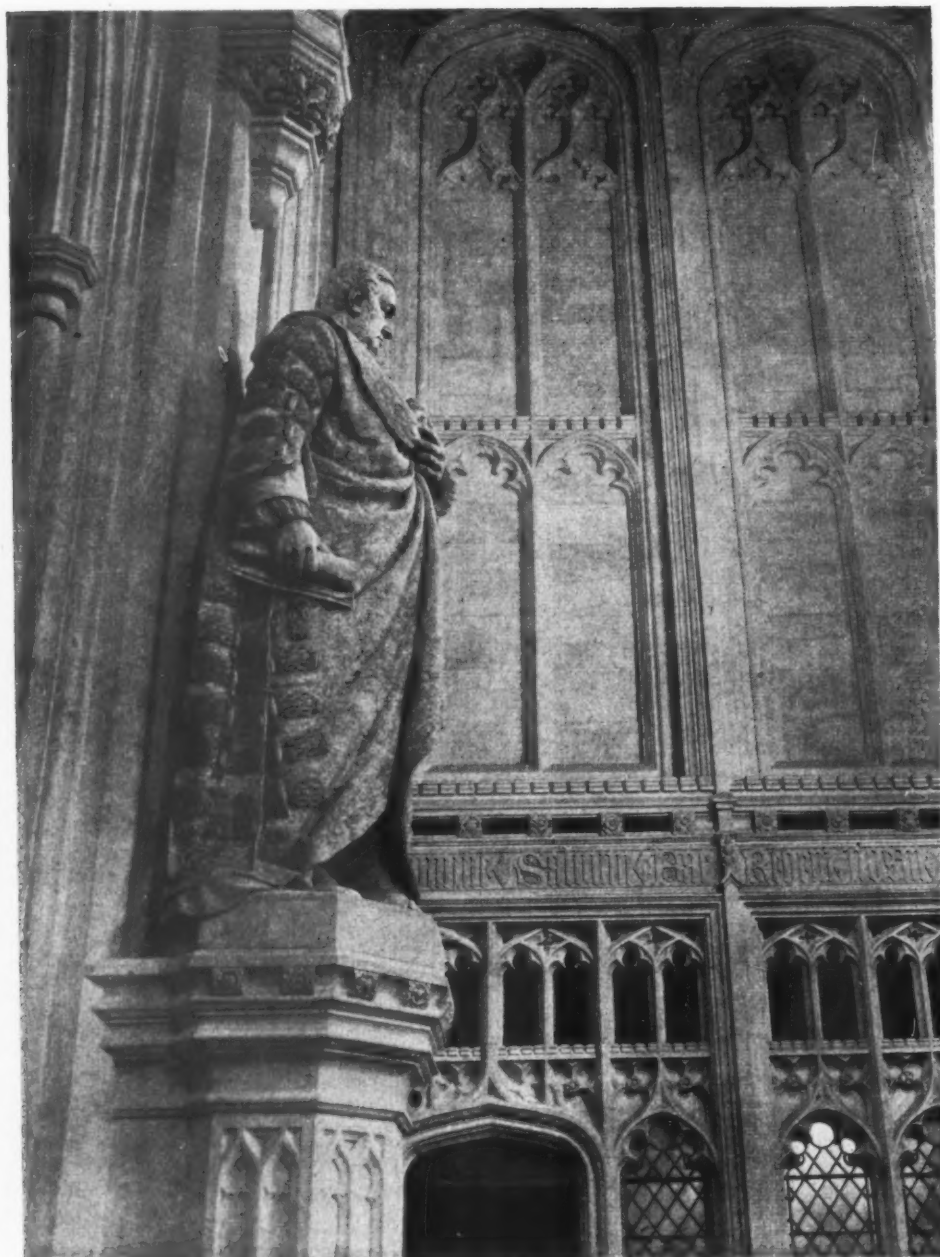
FINISHES.—All the woodwork in the chamber is of oak, with the exception of the Speaker's chair (Australian black bean), the clerks' chairs (South African stinkwood), and the floor (Queensland maple). The large quantity of prime English oak required was supplied from a yard at Newport, Shropshire, cut on the quarter to the required thicknesses for the work and seasoned and kilned in new kilns under the supervision of the Forest Products Research Laboratory. The general characteristic of the new oak work is a concentration on ornament to form horizontal bands of enrichment with contrasting plain areas. A domestic type of window design has been adopted with specially designed bronze casements having H-section glazing bars, showing the same inside and out. The seating in the chamber is covered with pleated leather in



The main chamber from above the strangers' gallery looking towards the speaker's chair.

Section B-B





The Commons lobby with statue of Sir William Harcourt, Home Secretary in the Rosebery Government of 1892-95.

HOUSE OF COMMONS

designed by SIR GILES GILBERT SCOTT
and ADRIAN GILBERT SCOTT

green, the traditional colour, which is also used for the specially woven Wilton carpet, which carries the traditional red "sword line" running the length of each of the front benches.

SERVICES.—Immediately below the floor of the House is a ventilation duct space which contains the trunking and electrical services, the plant being mainly housed under the central lobby and under the Commons inner court. There are eight air

conditioning plants within the building; two of them serve the chamber, one the two lower floors, one the top floor, another the cloister cloakrooms and offices. Three are for the reporters' accommodation. All these plants are similar and consist of a pre-heating coil for warming the air in very cold weather, followed by air filters, air cooler, main air heater, humidifying jets and a fan. From the fan the air is distributed through metal ducts. The cooling and dehumidification is effected by coils through which

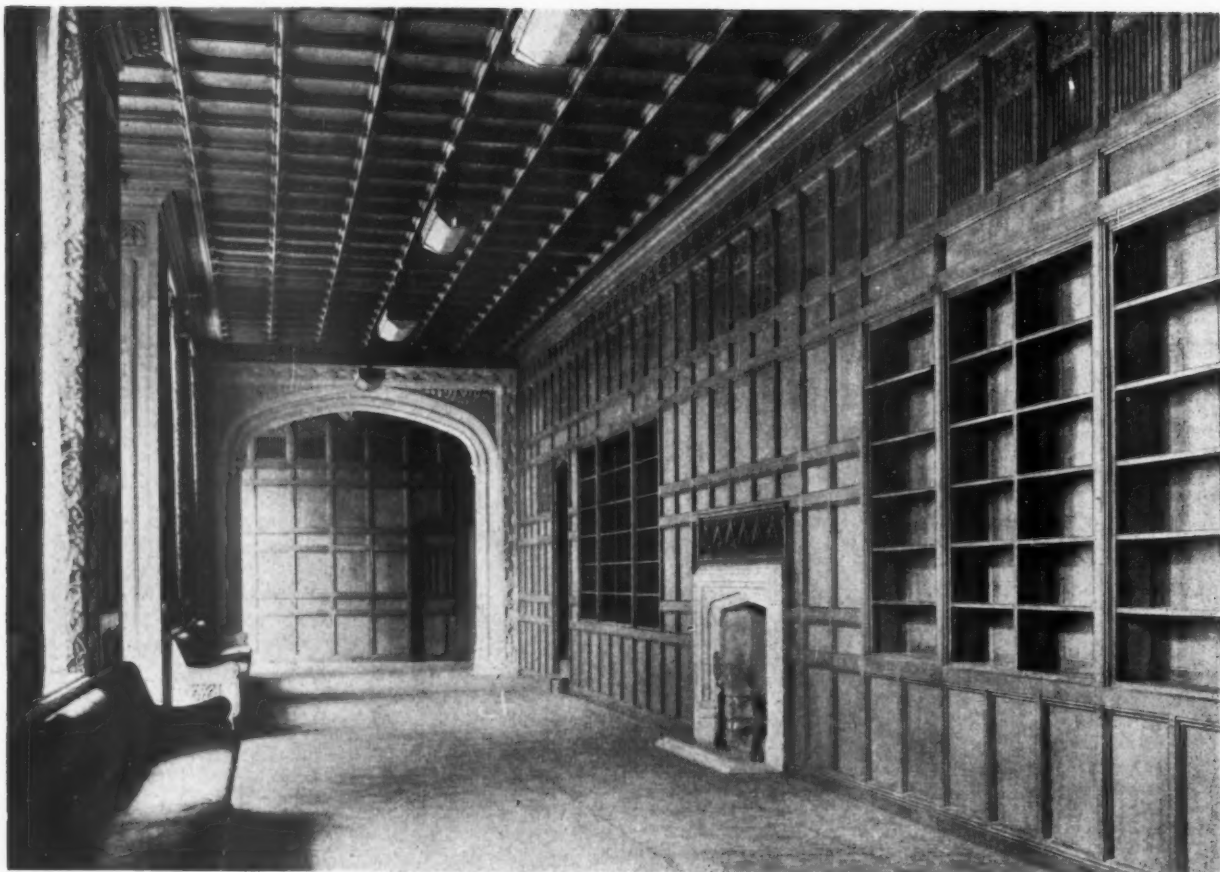


Right, the Churchill arch in the Commons lobby, reconstructed from bomb-damaged stones originally in the same position in the old House.

Fireplace in east division lobby.



brine passes at a low temperature, and heating is by similar coils carrying hot water. The air inlet to the lower part of the chamber is by means of slots under the gallery, giving a gentle horizontal air current along the whole of one side of the chamber. After a short interval the air is changed over from one side to the other. Part of the air is extracted near the floor through grilles in the panelling, and part through slots near the centre of the ceiling. The electric lighting of the Chamber consists of 150 glass laylight panels, each with its own fluorescent tube. Each tube is wound into a spiral so as to fit within a box placed over the panel. Behind the tube is a reflector and at the top of the box is housed the transformer and other gear for the operation of the lamp. The tubes can be brought up gradually by means of dimmers operated from the



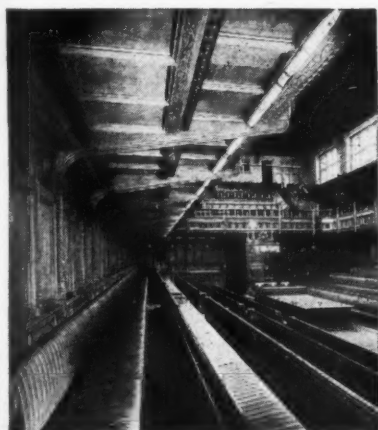
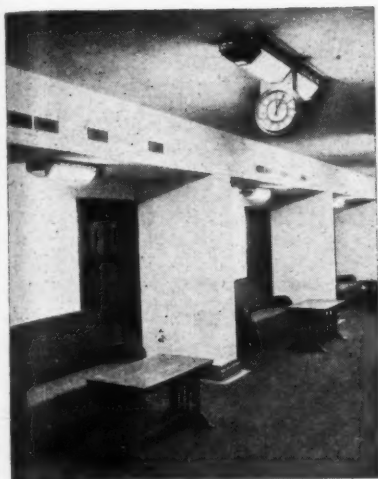
The east division lobby.

HOUSE OF COMMONS

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*Below, carving over the north
door to the Speaker's lobby.*





Above left, the members' lounge showing Gothic style light fittings, one supporting a clock. Centre left, underside of the west gallery showing continuous fluorescent lamps. Left, seating in the strangers' gallery showing a miniature loud-speaker set in the back of the seating.



Doorway and steps from the Chamber to the east division lobby.

control room. The glazing of the 30 panels is tinted oak colour so that by day the whole ceiling appears to be of timber, with carved ornamentation. There is also indirect floodlighting mounted on the window cills and lines of fluorescent tubes under the galleries. In certain of the main lighting fittings throughout the building there are small secondary lamps served from a battery. These lamps would enable the occupants to leave the building in safety in the event of failure of the main lighting. One of the most interesting of the 14 different electrical systems is the annunciator system, by which a message set up in a central operating room is trans-



mitted to receiving instruments and remains there until a further message displaces it. In this way members and officials entering any part of the House can quickly inform themselves of the proceedings in the chamber. In the sound amplification system the speech picked up by microphones in the chamber is relayed to miniature loudspeakers set in the seating. When any particular microphone is in use the group of loudspeakers in that vicinity is switched off automatically. This system is under the control of an operator viewing from a small cubicle at the south end of the chamber. He selects the appropriate microphone and controls volume. Eight new lifts have been installed, one for direct communication between the clerk of the House's suite and the principal floor. Communication facilities for reporters include over 70 telephones in sound-proof, air-conditioned booths. Some lines are private, direct to individual newspapers. There are pneumatic tube communications between the Press gallery and the post office for telegrams and cables. Three teleprinters connect to the principal towns in the country.

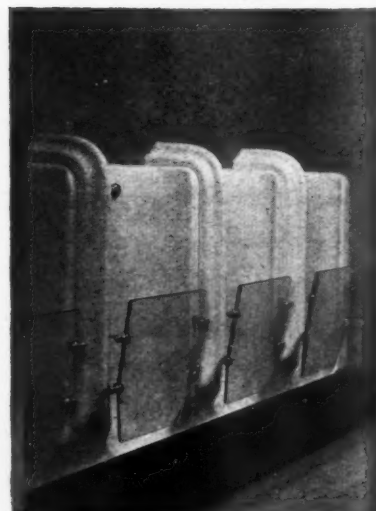
Provision has been made in the estimates for £1,750,000 as the cost of the rebuilding.

The general contractors were John Mowlem & Co., Ltd. For list of sub-contractors see page 408.

HOUSE OF COMMONS

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Below left, the periscope through which the engineer in charge is able to see into the chamber and control heating and ventilation. Below, centre, panels incorporating gear for the measurement and control of temperature, humidity and lighting. Below, urinals in the division lobby lavatory.



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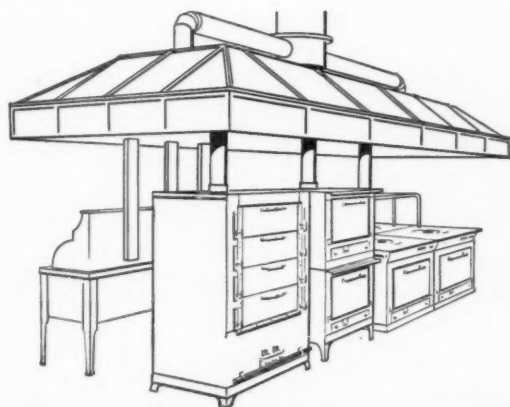
I, too, would have put in 'Falkirk' Heavy Duty Cooking Equipment”

SIR CHRISTOPHER WREN, it is recorded, was drawn up in a basket several times a week to inspect the progress of the building of St. Paul's, the cost of which amounted to £747,661 10s. 0d. precisely. Such an acute and omniscient brain could not fail to appreciate the practical and lasting importance of the 'Falkirk' appliances which completely equip the Press Gallery kitchen in the new House of Commons. 'Falkirk' are unchallenged experts in community catering. The Company has specialised for many years in strong, durable yet simple cooking appliances designed for gas, steam, electricity, solid fuel and oil. 'Falkirk' installations are used and praised throughout the world.

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INFORMATION CENTRE

4.65 planning: urban and rural

HIGH WYCOMBE ADVISORY PLAN

Advisory Development Plan for High Wycombe and District. Anthony M. Chitty. (Buckingham County Council, 1950. Sale price not stated.)

Report of the consultant appointed by

Bucks County Council, as the local planning authority, to prepare an advisory development plan for the Borough of High Wycombe and parts of Wycombe Rural District adjoining the borough. 61 pp., 3 diagrams; 2 folding maps in colour.

GREATER LONDON PLAN 1944

Sir Patrick Abercrombie, in his Greater London Plan, wrote of High Wycombe:

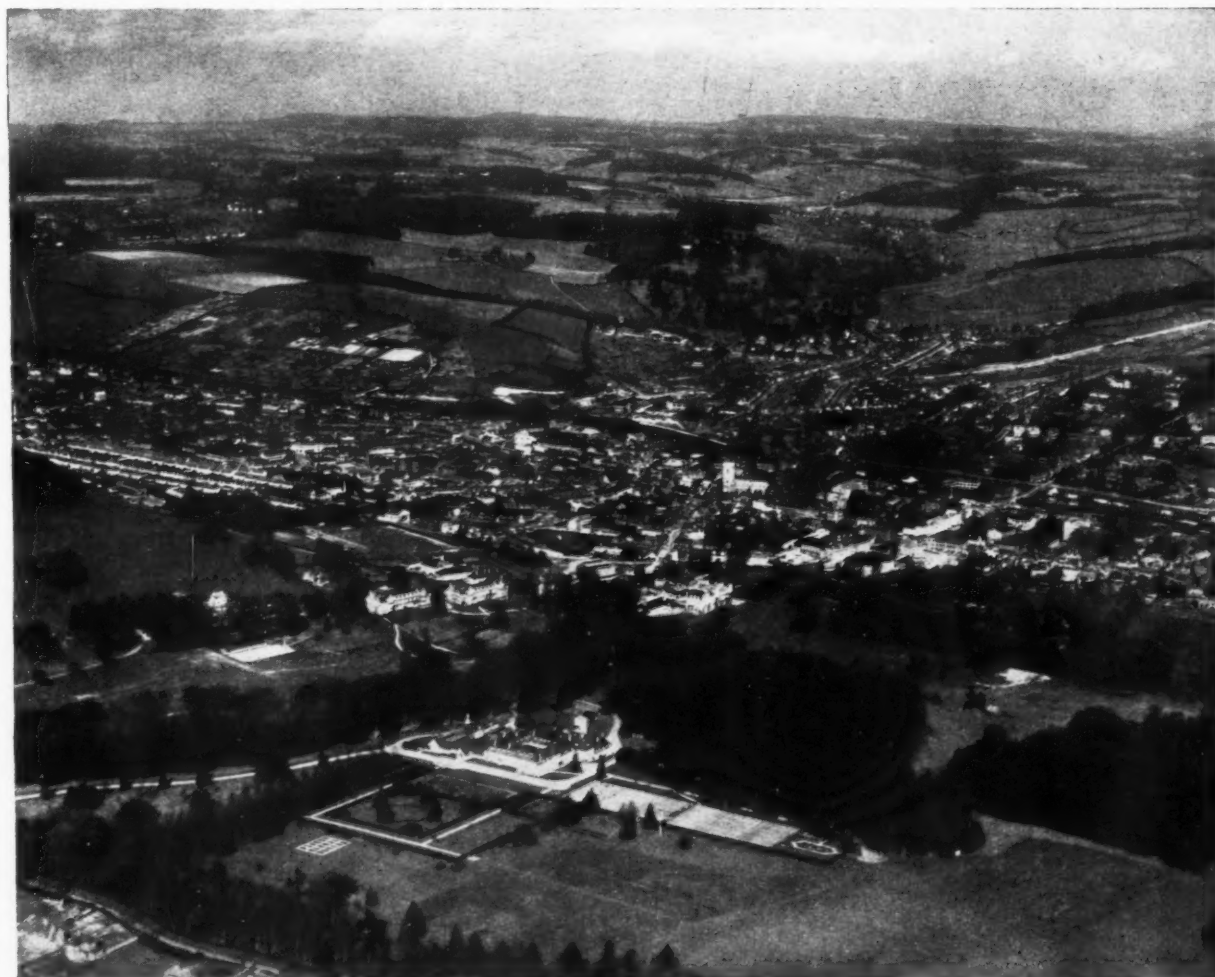
"This is a very interesting old-established town lying in the valley on either side of the London-Oxford Road, and in the main is an example of fairly intensive urbanism. It has a charming setting in attractive rural surroundings and is within about 30 miles of London. It has, however, developed by internal expansion from the small historic ribbon valley town, based on local industries (chair-making, dependent in the first instance on the nearby beech woods, and to a lesser extent paper-making) into a general industrial centre, for which it is topographically quite unsuited. The old town area is in need of a comprehensive scheme of reconstruction; much of the area

consists of congested housing, antiquated workshops and small factories; something much more comprehensive than a widening of the main shopping road is required. Some rehousing in flats in the central area will be necessary.

"The chair industry, in the course of its expansion to the manufacture of furniture, has attracted a wide variety of linked or subsidiary concerns . . . and of recent years engineering, electrical, and clothing firms have come to the town.

"There is a great contrast between the old town and the modern expansion. The latter comprises an insufficiently controlled and shapeless sprawl . . . that bids fair to devastate a wide area of most beautiful countryside. There is very little community of interest between the old town and these newer areas . . . which lack focal points around which community life might centre. Fundamentally the characteristics of the area, with its valleys and hill ridges, preclude indefinite expansion, except by an extravagant use of land and by the creation of an urbanism which will lack compactness. . . . Regionally it will make for better planning to divert population and industry to areas which are more suitable for compact town growth, such as Slough, Aylesbury and Bletchley, where new industry can be more efficiently accommodated. Wycombe's emphasis should be on reconstruction and bettering the present community rather than on expansion."

This description is the first part of the extract on High Wycombe which is included as appendix A in Mr. Chitty's report.



High Wycombe—general view of town and hills, looking north-west; Wycombe Abbey in the foreground.

[Photo Aerofilms]

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O.M., R.A.
CONTRACTORS: John Mowlem & Sons,
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CONSULTING
ENGINEER: Oscar Faber, O.B.E.,
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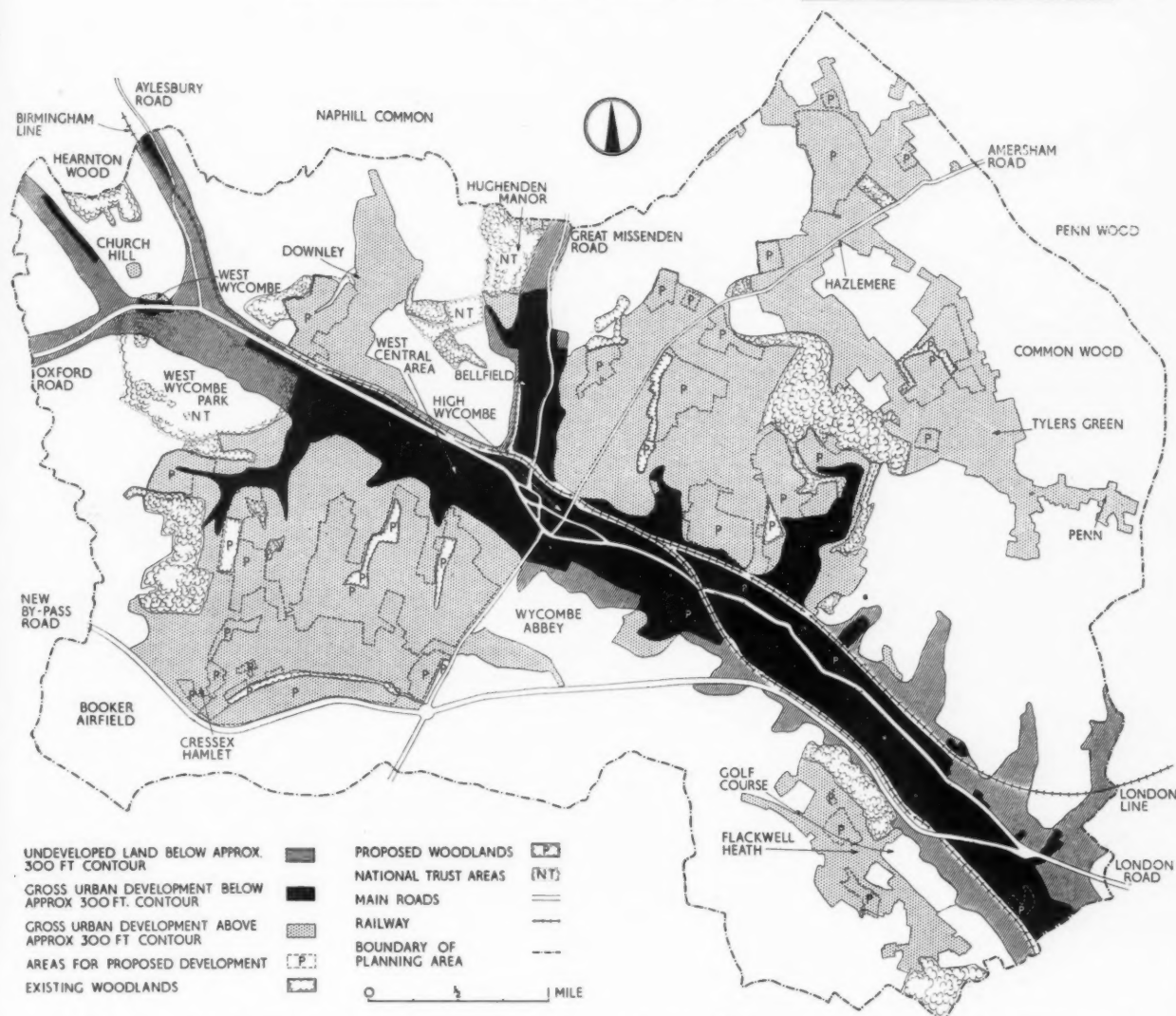
LONDON Hounslow 0171

EDINBURGH Craiglockhart 1729

LICHFIELD Lichfield 3078

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Plan of High Wycombe and district, based on consultant's Proposed Land Use Map, and showing contrast between valley development

and urban sprawl up the higher ground. (N.B. The term—"gross urban development," includes built-up areas and open spaces.)

THE CONSULTANT'S PROPOSALS

The consultant describes High Wycombe as a healthy, thriving and individualistic town with which there is not a great deal wrong. In his view there are two main problems to be considered:—

(a) The steps which must be taken to foster the healthy industrial life of the town; these are to be based on a proper study of the type, size and character of present and future industry.

(b) Some traffic relief.

All the other problems, such as housing, the provision of schools and colleges, services, communications, etc., are subsidiary to (a) above. Industry is supremely important in High Wycombe.

INDUSTRY

The first aspect of industry to be considered is the question of the relative balance of employment between the furniture and other trades; at present the balance is about equal. The consultant's recommendation is that, in order to provide for new forms of industrial employment, a modest increase in the resident population from 50,600 to 63,100 should be permitted. (Of this number about 4,000 will be due to natural increase.) This will not allow for full diversification (by BOT standards), but, as Mr. Chitty points out, the need for diversi-

fication of employment is modified by the nature of the industry—dependence on furniture manufacture is not particularly risky.

The report includes a schedule of manufacturing industrial premises prepared by the Area Planning Officer in 1945 as part of an industrial survey of High Wycombe.

The second aspect of industry to be considered is the amount of land required for industry. Inevitably, industry in the central area is in a congested state, especially as nineteenth century expansion led to multi-storey development on the limited sites that had been occupied for several generations. On the other hand, the modern trend is towards greater mechanization and lower density of workers per acre, with a preference for single-storey plant layout. The report reveals that in High Wycombe the density of workers per acre varies as much as from 700 workers to 20 workers.

In assessing the amount of industrial land required attention was paid to the trend of the furniture industry towards one-storey highly mechanized space with a low density of workers per acre; the urgent need for more sawmill and seasoning space necessitated by post-war conditions of timber supply; the proposed increase of population to a total of 63,100; the urgent need for removals and lower density in the central

areas and the obsolescence of many existing factory buildings.

The principal area recommended for early industrial development is the Cressex Estate area. The plan incorporates the layout for this estate previously prepared by the Borough Council.

Mr. Chitty suggests that the borough might test the advantages of flatted factories for developing one or more derelict areas in the western central area, and asks will the local authority own, lease, build and promote such factories themselves, or will they grant carefully controlled building leases?

The conclusion reached is that Wycombe's industrial land requirements must be expanded to allow for future improvements in production layout as well as room to ease central congestion. The existing industrial acreage is about 308, and the proposed acreage is put at a further 239. Immediate requirements are for about 56 acres of new land.

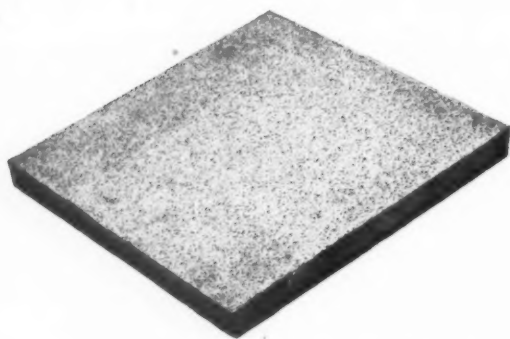
TRAFFIC RELIEF

The long-term plan of the Ministry of Transport is to relieve the A.40 road, the main London to Oxford road, which passes through the valley and some six miles of built-up area by the construction of a by-pass to the south of the town. The by-pass

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 $9 \times 6 \times \frac{3}{4}$
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$9 \times 6 \times \frac{3}{4}$
 $9 \times 3 \times \frac{3}{4}$

cored skirting

$9 \times 6 \times \frac{3}{4}$
 $9 \times 4 \times \frac{3}{4}$

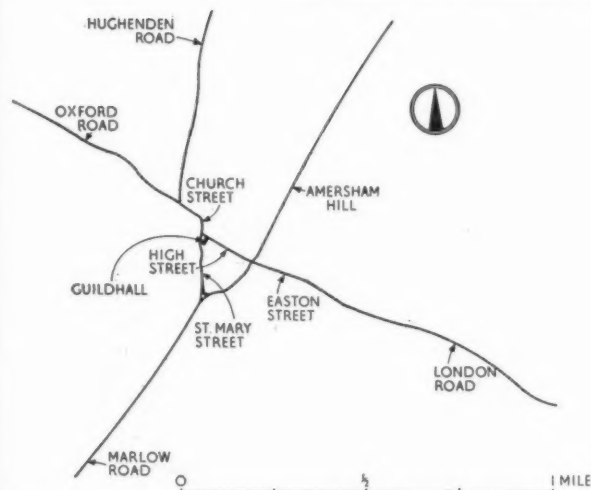
round nosed 2 edged

$9 \times 9 \times \frac{3}{4}$
 $9 \times 6 \times \frac{3}{4}$
 $9 \times 4 \times \frac{3}{4}$

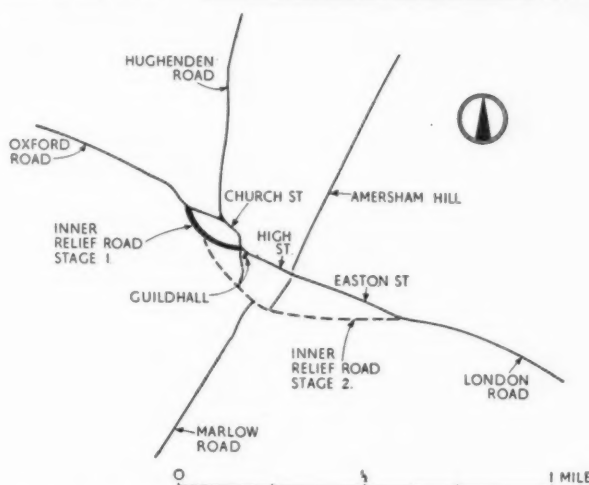


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Existing main roads in centre of High Wycombe.



Proposals for traffic relief in centre of High Wycombe.

would be twelve miles in length and likely to cost some two million pounds.

The most important new proposal in this report is for an inner relief road; this is urgently required.

Mr. Chitty describes a first stage, leaving Oxford Road at Temple Street and following the river to the junction of Whitehart Street and Newlands Street and thence curving round behind the buildings in Whitehart Street to rejoin A.40 at the Guildhall. This, combined with the widening of Oxford Road, can be carried out in the near future with little destruction of property and across land much of which is already in public ownership. It will relieve the badly over-crowded shopping streets, improve communication between the eastern and western halves of the town, and should be put in hand as soon as possible.

The second stage is more of a long-term nature since it involves greater expense, but it will ultimately become necessary. It will leave the first section at the present Newlands car park and run south of the river to Pann Mill. This will relieve the remainder of the shopping and commercial area of much traffic and eliminate the bottleneck at the Guildhall.

The route of the road is shown on the accompanying diagrams.

THE OUTLINE PLAN

Demand for agricultural land on which to create new building development will largely fall on the farms which still exist in the present predominantly urbanized area. That it has been possible to find within the existing urbanized area sufficient land for new building development is due to earlier ribbon development which created many small, and some extensive, pockets of undeveloped land.

It is proposed that the new housing areas should be laid out to an average net residential density of 30 persons per acre. This low figure has been used because most of the land concerned is fairly steep and split up by natural obstacles. It is suggested that wide variations in density should be permitted, provided these variations average out within the major divisions of the town. For example, the areas north of Totteridge Road and east and west of Amersham Hill should be redeveloped with flats not exceeding three storeys high. The existing density in this area is 35 per acre; a higher density up to 100 persons per acre is justified on the grounds that access to open land is good and because of the high cost of this central land.

Previous building in the area suggests about 1 in 7 as the steepest gradient upon

which houses can be built without undue difficulty. Some land of a steeper gradient has had to be included among the new housing areas in order to ensure compact development.

The problem of putting these proposals into practice is going to be: can "rounding-off" development, often on difficult sites, be made an economic proposition? If not, further building development may lead only to greater sprawl.

LANDSCAPE

About the most important aspect of the landscape along the Wye Valley is the way in which trees, beech and others, in large stands punctuate the skyline, or as woods cover the slopes down to the valley. On his plan Mr. Chitty shows areas for further planting, particularly upon the heights around Cressex and Downley. The new plantations would both protect new factories or housing areas in their exposed positions on the high ground, and would improve the landscape appearance of the new development. Where possible, the plantations would be sited on land too steep for building.

The suggestion is for mixed plantations containing some slow-growing permanent trees and an infilling of quicker growing trees which can be thinned out from time to time to provide timber.

Mr. Chitty observes that plantations are not a form of capital expenditure likely to attract investment from private sources, and it is not known whether the Forestry Commission would be prepared to plant and manage the small areas involved. Some initial expense in planting and fencing to protect young trees would also be necessary.

REPORT AND PLAN

This notice has mentioned some of the proposals which are likely to be of interest to architects; it has not attempted to cover the full range of recommendations which are put forward in this report.

The preparation of this advisory development plan began early in 1949 and was completed at the end of March this year. To assist the consultant in his work there was set up a special sub-committee comprising: members of the County Council, High Wycombe Borough Council and a representative of the Wycombe RDC. The survey was provided by the County Planning Officer and the Area Planning Officer.

The two plans published with the report are sound, workmanlike productions; this is especially so of plan No. 1, Proposed Land Use at the scale of 6 in. to 1 mile.

Only a long study of this plan can bring out the full intricacy of the nature of Wycombe's existing and proposed development. The plan is drawn in the style of the Ministry's present official colour notation, but the number of colours has been reduced.

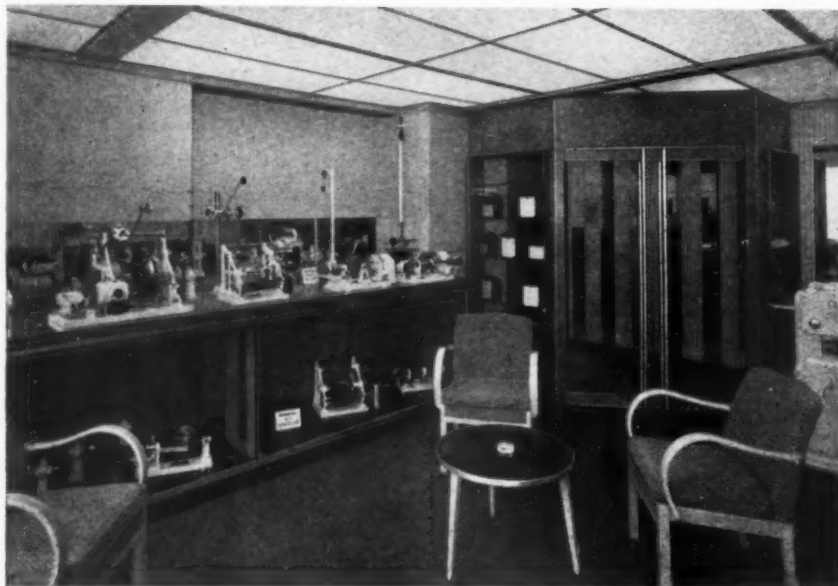
The County Council have, now, under one year in which to allow full consideration of this advisory plan and to prepare their official report of the survey and the development plan for submission to the Minister. The County Council have done well to arrange for the preparation and publication of this advisory plan, but it does seem a pity that the Council could not have also arranged for the publication of a concise account of the survey. Although the consultant has taken pains to make his proposals reasonable and practicable, they would gain in strength if they were supported by an adequate account of the survey.

18.62 construction: theory PRESTRESSED CONCRETE

The Variety of Applications of Prestressed Concrete. M. Lalande. (Translated from "Travaux" [France], Cement and Concrete Association. 100 pp., 123 illustrations.)

After about 20 years of practical application to many types of construction M. Freyssinet's ideas are illustrated in a number of separate descriptions of prestressed concrete structures carried out in France since 1946. The means of prestressing are discussed in the first chapter, including also the earlier experiments for the fixing of the wires by various types of jacks and anchorages. Then follows a detailed description of some recent bridges, including that at Esbly (see AJ, December 8, 1949, p. 658, report on M. Freyssinet's lecture in London). The use of prestressed concrete in port construction and for aerodrome runways is described in separate chapters, followed by recent examples of river dams, barges, huge reservoirs and many other types of structures. This list of contents will indicate that this booklet will be of special interest to engineers, but certain items will directly concern the architect, such as the manufacture of floor joists and of complete floors. Many details are given and the great number of photographs, although suffering in reproduction, conveys an excellent idea of how the job was done.

Part of the showroom, The Automatic Coil Winder & Electrical Equipment Co. Ltd., Winder House, S.W.1, recently reconstructed and furnished by Heal's Contracts Ltd. The mahogany showcases have sliding glass doors, and are specially constructed to carry heavy machinery on the top. The mahogany door frame has frameless glass doors and the opal glass false ceiling is fitted with fluorescent lighting above.



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AUTOBAHN BRIDGE REBUILT**

Germany's Ill-fated Autobahn Bridge Rebuilt. Adam Werth (Eng. News Record [USA], Aug. 24, 1950, pp. 34-36.)

What is said to be the heaviest plate girder bridge in the world has now been completed, 10 years after it collapsed during erection in 1940, with the loss of 36 lives. With a centre pier in the middle of the Rhine near Mannheim, two spans of 482 and 528 feet form a continuous plate girder of 1,010 ft. length. The original design provided for a two-track roadway on 4 main girders. For present needs a bridge of only half the former width over the 528 ft. span will have to suffice, replacing the girders which collapsed. Some dimensions may indicate the quite extraordinary size of these plate girders. The web is 21 ft. 9 in. deep and $\frac{1}{4}$ to $\frac{3}{8}$ in. thick. The flanges are 4 ft. wide and up to 10½ in. thick. Special 1½ in. diameter turned rivets with a conic head were used. The reasons of the collapse in 1940 are discussed in detail. During erection by the cantilever method a temporary pendulum support gave way and the long bridge span fell into the Rhine. The depth to span ratio is exceptionally low, about 1 to 24 in the vertical plane and even less in the horizontal plane namely 1 : 30, the latter figure being the ratio of the spacing between centres of main beams (17 ft. 4 in.) to the span of 528 ft. Special measures had therefore to be adopted to stiffen the bridge against wind and other lateral forces and torsion. Reinforced concrete flooring is now acting as an integral part of the top flanges. From the point of view of bridge aesthetics it is remarkable that the "monolithic" type of steel plate girder and its straight line appearance is again finding favour for such extraordinary spans.

question. Thermal expansion is about twice that of steel, and a correction must be made when using a steel tape for measuring lengths under different shop temperatures. Clearance between rivet holes and shafts was only $\frac{1}{16}$ in., and this required much greater accuracy in drilling than is normal for steelwork. Special types of aluminium rivets were developed by extensive tests. The end of their shaft has an axial hole, and annular heads are produced cold by specially shaped rivet guns. Each of the two arch ribs of 290 ft. span between abutments was shipped in six sections and cantilevered out, held by 1½ in. diameter steel wire ropes as back ties during erection. The crown sections, 6½ tons each, were lowered into position by a cable-way. The main arches are box sections 54 by 32 in. The weight is only 43 per cent. of that of steel, which meant considerable saving in handling costs, in shipping and erection. The concrete bridge deck was completed in June this year.

Architects may not often be concerned with structures of such long span. But in exhibition buildings, railway stations and the like the long span may offer decisive advantages, and light alloys are now seriously competing against steel and concrete. The aluminium structure of 365 ft. diameter for the Dome of Discovery, Festival of Britain, is the latest example in this country.

**25.78 water supply: sanitation
SANITARY APPLIANCES**

Sanitary Appliances and their Installation. Draft BS C of P 305. (British Standards Institution, 1950. 3s.)

Selection and installation of sanitary appliances. To be read in conjunction with Chapter VII of Code of Functional Requirements of Buildings.

Notes on large range of appliances, with references to other BS. Brief notes on requirements for houses, flats, shops, schools, hospitals, public buildings, factories, kitchens and offices. In all, this Code has 26 pages. It is doubtful whether the amount of information not known to all architects and builders amounts to more than half a page.

Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

ENQUIRY FORM

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**20.189 construction : complete structures
ALUMINIUM ARCH BRIDGE**

Canadians Build World's First Aluminium Arch Bridge. C. J. Pimenoff. (Civil Engineering [USA], Aug., 1950.)

New venture in light alloy construction. 290-ft. arch ribs erected by cableway, without scaffolding. Aluminium left unpainted, except inside of box sections. 5 pp., 9 illustrations.

This road bridge in the Province of Quebec was shortly mentioned (see AJ., March 9, 1950) when its erection was about to be completed. More details are now available about the design and some new features in fabrication and erection. The material is high-strength structural aluminium with a 0.2 per cent. proof stress of 22.4 tons per sq. in. This is to be compared with our structural mild steel of approximately 16 tons per sq. in. yield stress, while the ultimate tensile strength is about the same for both materials, i.e., 27 tons per sq. in. Some peculiar differences in shop fabrication are discussed. Flame cutting, which is common for steelwork, cannot be used for this light metal because it would lose its strength, which is obtained by heat treatment. Sawing, however, proved a perfect substitute. For the same reason welding was out of



Aluminium arch bridge, being erected by cantilever method. See 20.189.

Buildings Illustrated

New House of Commons. (Pages 392-402.) Architect: Sir Giles G. Scott, R.A., F.R.I.B.A., and Adrian Gilbert Scott, F.R.I.B.A. General contractors for the superstructure: John Mowlem & Co. Ltd. General Contractors for the foundation contract: Trollope & Colls Ltd. Sub-contractors: Wood block flooring, The Acme Flooring & Paving Co. (1904) Ltd.; sand lime bricks, quarry tiling, R. Y. Ames; oak, John Ashworth & Co. (Timber) Ltd.; block stone (Portland), Bath & Portland Stone Firms Ltd.; inkstands and ashtrays, Blunt & Wray Ltd.; sanitary fittings, John Bolding & Sons Ltd.; special obscured glazing, F. Bowman Glass Works Ltd.; stone carving, E. J. & A. T. Bradford Ltd.; electric fires, Bratt Colbran Ltd.; motor control equipment, Brookhirst Switchgear Ltd.; "Bison" precast concrete floors and roofs, Concrete Ltd.; telephone cabinets, Horace W. Cullum & Co. Ltd.; block stone (Clipsham), Clipsham Quarry Co.; precast concrete roof tiles, H. B. Concrete Ltd.; cement, Cement Marketing Co. Ltd.; light metalwork, Clark, Hunt & Co. Ltd.; safes, Chubb & Sons Lock & Safe Co. Ltd.; seating (Dunlopillo), Dunlop Rubber Co. Ltd.; block stone (Caen), De Freyen (London) Ltd.; Elkington-Gatic covers and frames, Dover Engineering Co. Ltd.; stock bricks, Eastwoods Ltd.; timing clock, F. W. Elliott Ltd. and Falk, Stadelmann & Co. Ltd.; sanitary fittings, W. N. Froy & Sons Ltd.; insulation to Chamber, Fibreglass Ltd.; joinery in Chamber and furniture, J. L. Green & Vardy; bronze windows and ironmongery, James Gibbons Ltd.; lightning

conductors, W. Gray & Sons Ltd.; electric light fittings, General Electric Co. Ltd.; clocks, Gent & Co. Ltd.; plastering and granolithic, A. Horrocks & Sons Ltd.; plumbing, Matthew Hall & Co. Ltd.; sun-blinds, Haskins; fireplace linings, Himley Brick Co. Ltd.; aggregates and sand, Hall & Co. Ltd.; rubber flooring, Korkoid Decorative Floors; asphalt, Limmer & Trinidad Lake Asphalt Co. Ltd.; tiling, Leeds Fireclay Co. Ltd.; pavement lights and roof lights, Lenscrete Ltd.; hollow floor tiles, London Brick Co. Ltd.; electro copper glazing, Luxfer Ltd.; joinery, except for Chamber, Division and Commons Lobbies, John Mowlem & Co. Ltd.; masonry, F. G. Minter Ltd.; Speaker's Chair, wrought-iron fire baskets, bronze door grilles, loudspeaker grilles, despatch boxes, H. H. Martyn & Co. Ltd.; block stone (Clipsham), George A. Medwell & Sons; paint, Mander Bros. Ltd.; upholstery, Maple & Co. Ltd.; acoustic work, Newalls Insulation Co. Ltd.; block stone (Hadene), Nine Elms Stone Masonry Works; electric light fittings, Osler & Faraday, Ltd.; balustrades, staircases and steel shutters, Potter Rax Ltd.; masonry, Rattee & Kett Ltd. (associated company of John Mowlem & Co. Ltd.); structural steelwork, Redpath Brown & Co. Ltd.; masonry, Rutland Stone Masonry Works Ltd.; partition blocks, Refraction Ltd.; steel partitioning Roneo Ltd.; faience, Shaws Glazed Brick Co.; bar of the House, Starkie Gardner Ltd.; joinery in Division and Commons Lobbies, and mirror light fittings, Fredk. Sage & Co. Ltd.; masonry, Saunders (Ipswich) Ltd.; sanitary fittings, Shanks & Co. Ltd.; molar roof insulation slabs, J. H. Sankey & Son Ltd.; electric light fittings, Falk, Stadelmann & Co. Ltd.; bronze hand-rail, Adrian Stokes Ltd.; rubber strip to telephone kiosk doors, Sorbo Ltd.; letter chute, Sovex Ltd.; cast lead rainwater pipes,

Stoner & Saunders Ltd.; reinforcing rods, United Strip and Bar Mills; embroidery to Speaker's Chair, Watts & Co.; masonry, Webber & Corben Ltd. (associated company of John Mowlem & Co. Ltd.) masonry, George V. Williams & Sons Ltd.; masonry marble paving and wall linings, J. Whitehead & Sons Ltd.; glass for Chamber windows, Whitefriars Glass Co. (James Powell & Co. Ltd.); window gear, Arens Control Ltd.; glues for joinery, Aero Research Ltd.

The following acknowledgments should be made for photographs published on pages 387 and 388. Page 387: top, left, the British Museum; right, the Society of Antiquaries of London. Centre, the National Portrait Gallery. Bottom, the MOW. Page 388: top, the MOW.

Announcements

Messrs. Holoplast Ltd. announce that their product was not involved in the Concert Hall fire on the Festival site. The firm claims that their acoustical ceilings are non-inflammable.

Mr. S. P. Jordan A.R.I.B.A., M.S.I.A., DIP.T.P., has removed from 7, Hobart Place, S.W.1, and is now in practice at 11, King's Road, Sloane Square, London, S.W.3 (tel.: Sloane 9367), where he will be pleased to receive trade catalogues and all professional correspondence. Mr. Jordan's association with Gaby Schreiber & Associates has been terminated by mutual consent.

Mr. L. C. Lomas, F.R.I.B.A., has changed his address to the following:—County Architect, Worcestershire County Council, 14, Castle Street, Worcester.



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★ MAIN CLEAR SPAN measuring 330ft. oin. Main Girder measuring 330ft. oin. long 17ft. oin deep and weighing 130 tons. Roof Trusses span 120ft. oin. measure 13ft. oin. deep and weigh 15 tons each. Total weight of steel 520 tons, all of English manufacture, fabricated at West Bromwich and welded on site.

★ INTERNAL CLEAR SPAN measuring 394ft. oin. Main Girder weighs 145 tons and is made up in two sections each measuring 197ft. oin. long. Roof Trusses span 164ft. oin. measure 11ft. oin. deep and weigh 20 tons each. Total weight of steel 620 tons, the majority being of English manufacture, fabricated at West Bromwich and welded on site.



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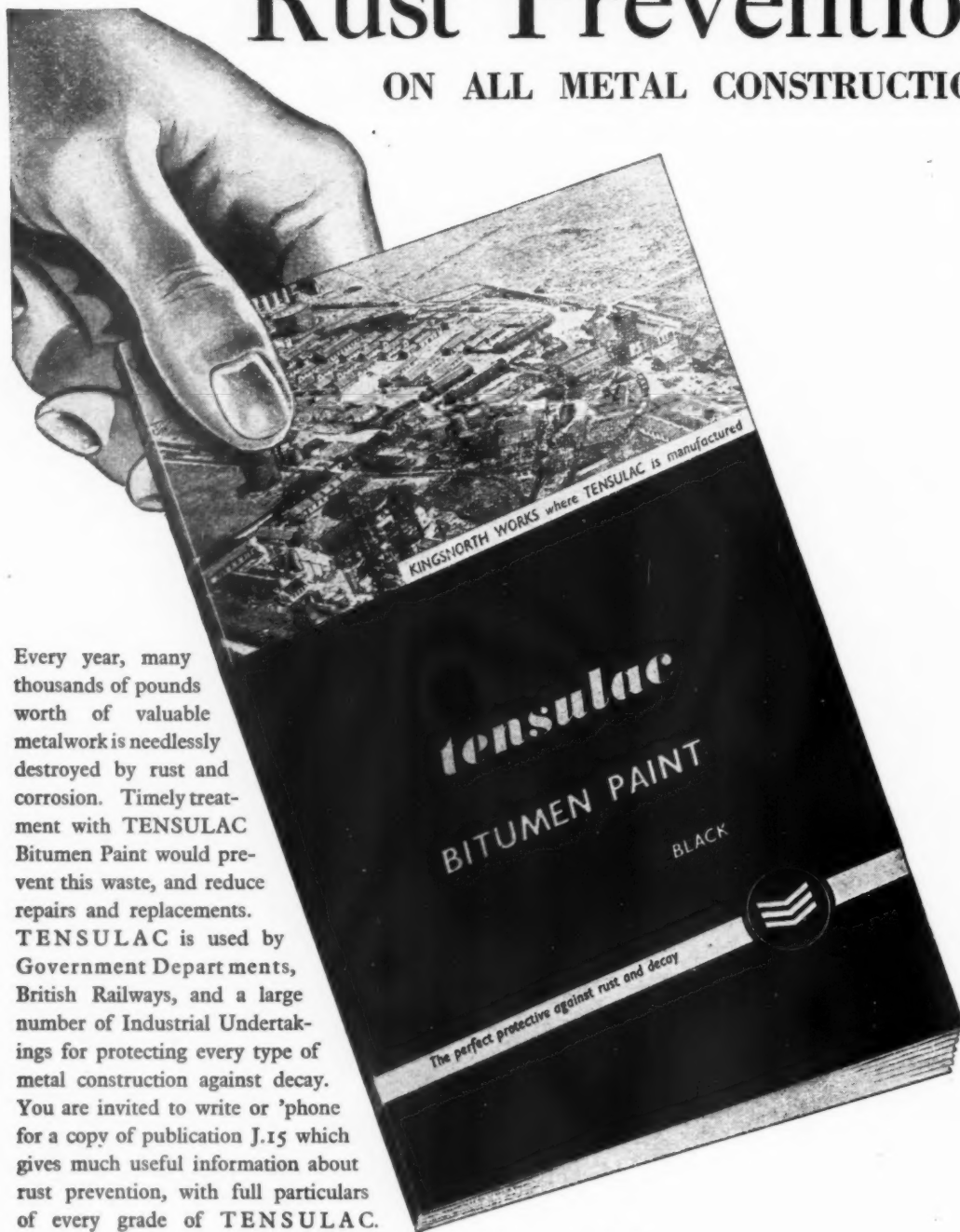
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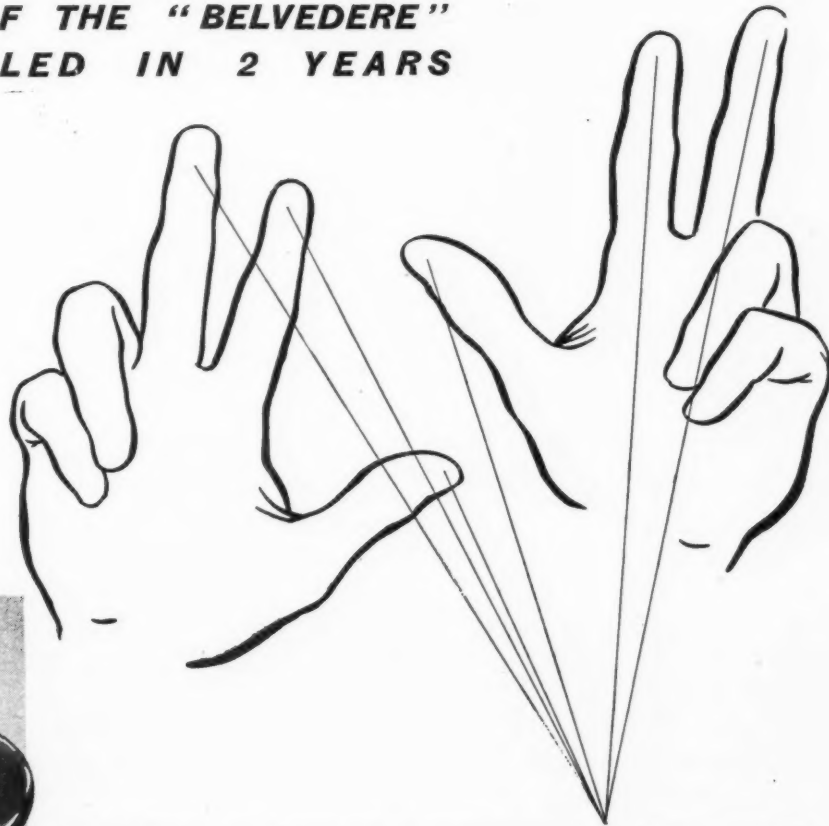
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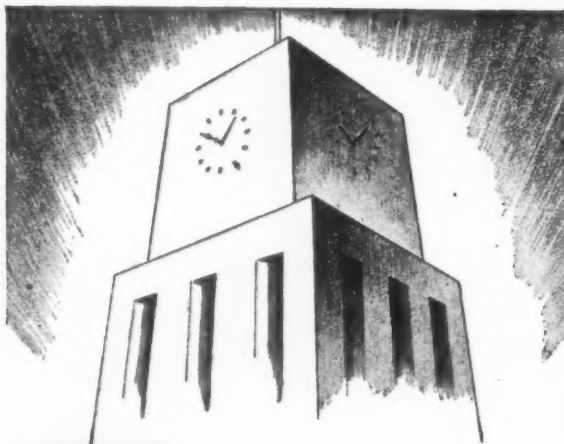
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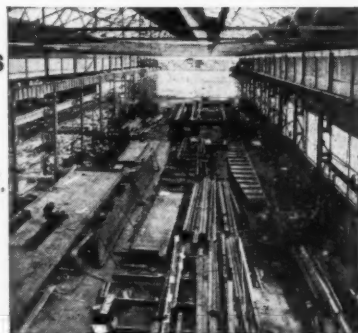
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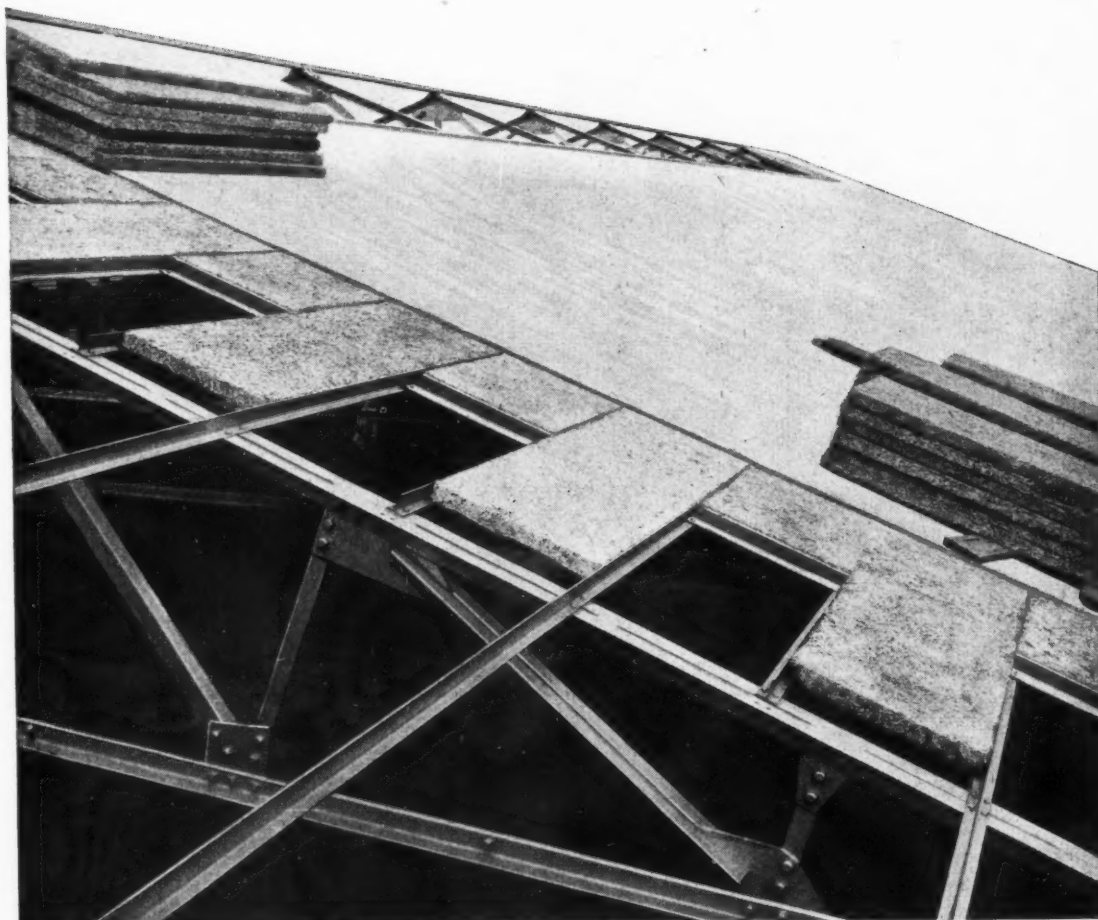
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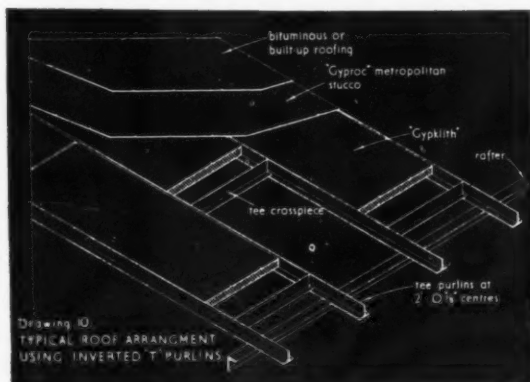


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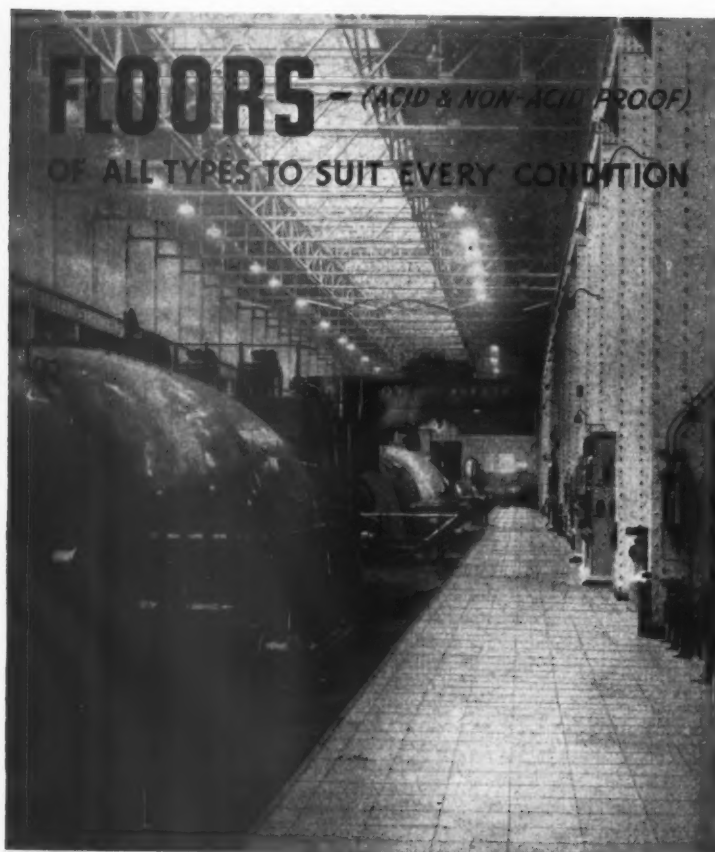
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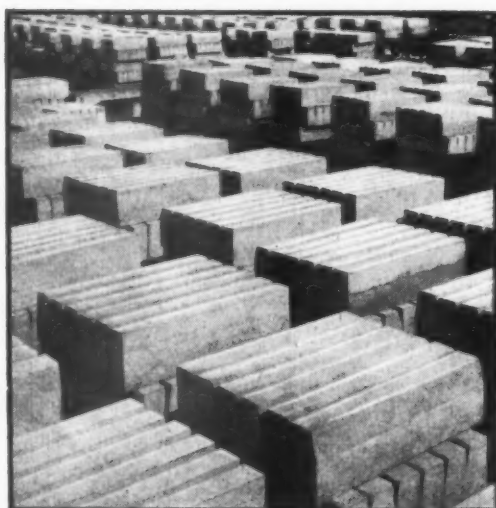
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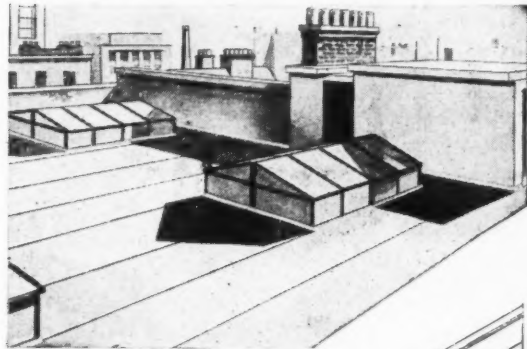
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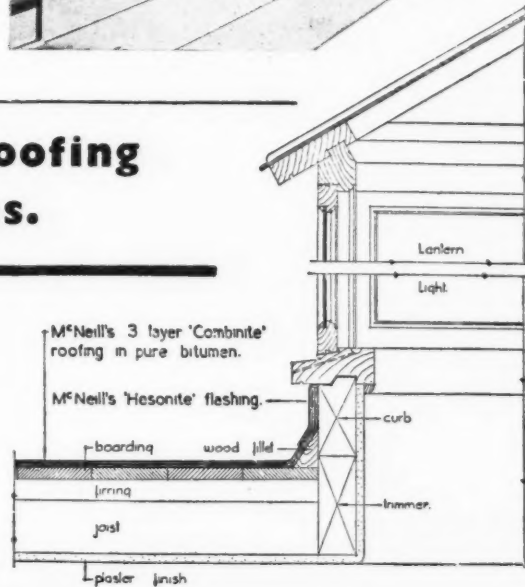


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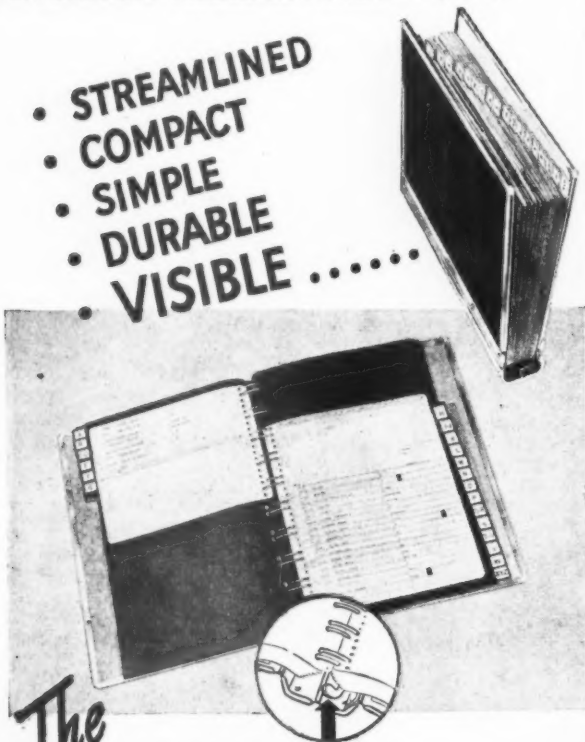
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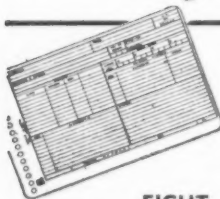


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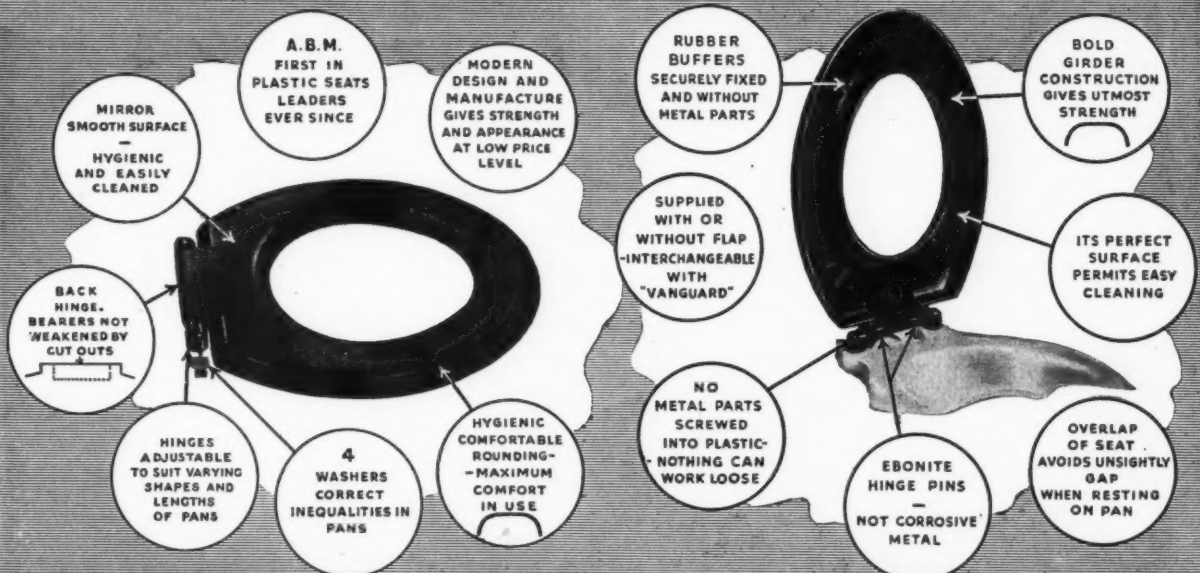
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T.107

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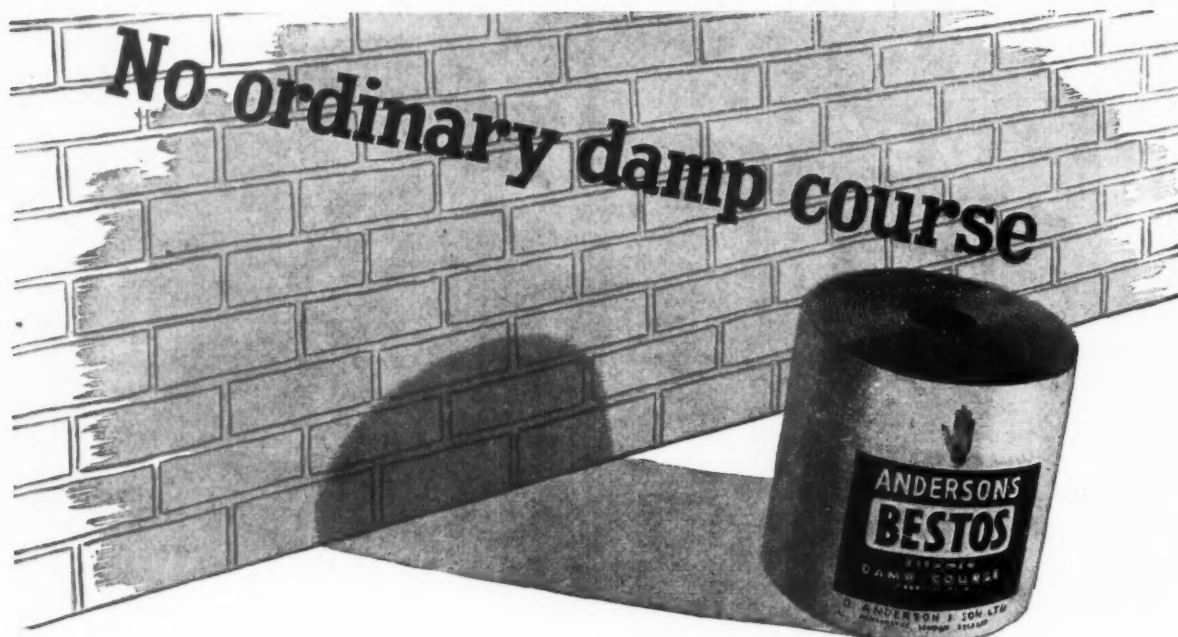
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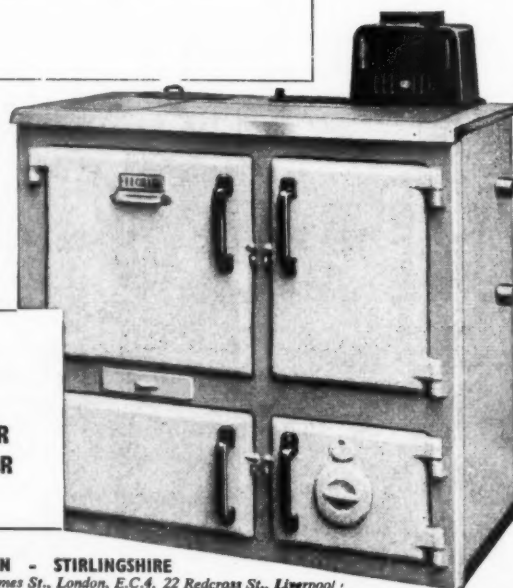
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NJ 912

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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, 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," at the address given above.

Public and Official Announcements

2s. per inch; each additional line, 2s.

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: EMPLOYMENT REGISTER, WREN PARK, WHITELEAF. Tel.: Uplands 0935. 991

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: **SENIOR ARCHITECTURAL ASSISTANT**, minimum starting salary £650 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 957. 4341

LONDON COUNTY COUNCIL.

Applications are invited for positions of **ARCHITECTURAL ASSISTANT** (salaries up to £800 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Successful candidates will be subject to the Local Government Superannuation Act, 1937, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.11). Canvassing disqualifies. (816) 4558

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

- (a) **SENIOR ASSISTANT ARCHITECTS**. Salary A.P.T. Division, Grade VII, £635-£710.
- (b) **ARCHITECTURAL ASSISTANTS**. Salary A.P.T. Division, Grade III, £450-£495.
- (c) **ARCHITECTURAL ASSISTANTS**. Salary A.P.T. Division, Grade I, £390-£435.
- (d) **ASSISTANT QUANTITY SURVEYORS**. Salary A.P.T. Division, Grade VI, £595-£660.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937. Previous experience of Local Government work is not essential.

Suitable housing accommodation can be made available to the successful candidates for appointments (a) and (d).

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Fitzott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Thursday, 30th November, 1950.

HARRY TAYLOR,

Town Clerk.

Town Hall, Stoke-on-Trent.

21st September, 1950. 1067

COUNTY BOROUGH OF WOLVERHAMPTON.

TOWN PLANNING STAFF.

Applications are invited for the following appointment in the Department of the Borough Engineer and Planning Officer:—

- SENIOR PLANNING ASSISTANT**. Grade A.P.T. IV or V (£480-£575 or £570-£570), according to qualifications and experience.

Applicants should have had good general planning experience, and preference will be given to a candidate who holds an appropriate qualification.

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

Housing accommodation will be made available to the successful applicant, if required.

Applications, together with one testimonial and two names for reference, should reach the undersigned in suitably endorsed envelopes not later than 23rd November, 1950.

J. BROCK ALLEN,

Town Clerk.

Town Hall, Wolverhampton.

1117

HORBURY URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

The Council invite applications for the above appointment. Salary will be in accordance with Grade IV, A.P.T. Division, of the National Joint Council Scheme of Conditions of Service (£480 per annum, rising by annual increments of £15 per annum to a maximum of £525 per annum).

Applicants must have had experience in the carrying out of surveys, preparation of plans, specifications for architectural work usually undertaken by a Local Authority, and in particular housing. Proficiency in the complete process of taking off and billing quantities for new housing will be considered an advantage.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the National Joint Council Scheme of Conditions of Service, and the person appointed will be required to pass a medical examination.

The Council will be prepared to allocate a Council house to the successful applicant, if desired.

Applications, endorsed "Architectural Assistant," stating age, present and previous appointments, and experience, together with copies of two recent testimonials, should be received by the undersigned not later than Thursday, the 7th December, 1950.

H. SENIOR,

Clerk of the Council.

Town Hall, Horbury, near Wakefield.

30th September, 1950. 1050

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following established posts:—

- (1) **FOUR SENIOR ASSISTANT ARCHITECTS**. Grade VII, £635-£710 p.a.
- (2) **ASSISTANT ARCHITECT**. Grade V, £520-£570 p.a.
- (3) **JUNIOR ARCHITECTURAL ASSISTANT**. Grade III, £450-£495 p.a.
- (4) **SENIOR ASSISTANT QUANTITY SURVEYOR**. Grade VII, £635-£710 p.a.
- (5) **ASSISTANT QUANTITY SURVEYOR**. Grade V, £520-£570 p.a.
- (6) **TWO JUNIOR ASSISTANT QUANTITY SURVEYORS**. Grade III, £450-£495 p.a.

For the post of Senior Assistant Architect, Grade VII, and Assistant Architect, Grade V, Associateship of the R.I.B.A. is required, and for the post of Senior Assistant Quantity Surveyor, Grade VII, and Assistant Quantity Surveyor, Grade V, Associateship R.I.C.S. or I.Q.S. is required. For the post of Junior Architectural Assistant, Grade III, and Junior Assistant Quantity Surveyor, Grade III, the Intermediate Examination of the appropriate Institutes as above is required.

Candidates must be under 45 years of age, unless in Local Government Service. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

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

Forms of application may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., Guildhall, Swansea, and are to be returned, to the undersigned, not later than 25th November, 1950.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN,

Town Clerk.

Guildhall, Swansea.

31st October, 1950. 1153

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION.

Applications are invited for the following appointments:—

- (1) **SENIOR PLANNING ASSISTANT**. Salary in the scale £550-£530 to £750.
- (2) **PLANNING ASSISTANTS (TWO)**. Salary in the scale £400-£225 to £525.

Applicants for (1) should be Corporate Members of the Town Planning Institute. The applicant appointed will be engaged on the design of the western neighbourhoods of the New Town, and there are possibilities for further promotion for the right man as the work proceeds.

Applicants for (2) should have had previous experience in a planning office and have passed the Intermediate Examination of the Town Planning Institute.

The appointments will be subject to the Development Corporation's staff rules and conditions of service (which are broadly similar to the Local Government Officers' "Charter"), in particular to one month's notice of termination on either side.

Contributory superannuation with an opportunity of entering or continuing in Local Government Superannuation Fund will be provided.

Housing accommodation will be available to married applicants, if desired, within a reasonable time.

Applications, giving full particulars of age, qualifications and experience, together with the names of two persons to whom reference may be made, and endorsed "Planning," should be addressed to the undersigned, to reach him not later than 20th November, 1950.

W. O. HART,

General Manager.

Westbrook Hay, Hemel Hempstead, Herts. 1179

BOROUGH OF REDCAR. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned permanent appointment on the staff of the Borough Engineer, Surveyor and Water Engineer, at a salary in accordance with Grade A.P.T., III (£450-£495). The appointment will be subject to the terms of the National Joint Council's Scheme of Conditions of Service, to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applicants should be experienced in the preparation of designs, working drawings, specifications, quantities and estimates for Architectural and Housing Works, and should have passed the Intermediate Examination of the Royal Institution of British Architects.

Suitable housing accommodation will be provided for the successful applicant, if required.

Applications, stating age, qualifications and experience, and accompanied by three copies of recent testimonials, and appropriately endorsed, are to be delivered to R. Hilton, Esq., A.M.I.C.E., Borough Engineer, Municipal Buildings, Redcar, Yorks, not later than 30th November, 1950.

Canvassing, directly or indirectly, will disqualify.

H. CALDWELL,

Town Clerk.

Municipal Buildings, Redcar.

October, 1950. 1046

SKIPTON URBAN DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment. Salary within A.P.T. V-VI, of the National Scales (£550-£660).

Housing accommodation will be available if required.

Although the position is not in the permanent establishment, it is anticipated that the appointment will continue for at least three years. It will be subject to one month's notice on either side and to the passing of a medical examination for superannuation purposes.

Applications, stating age, qualifications and experience, and the names and addresses of three referees, to be sent to Mr. K. B. Robinson, B.Sc.(Eng.), A.M.Inst.C.E., Engineer and Surveyor, Town Hall, Skipton, by first post on Wednesday, 22, November, 1950.

L. E. SMITH,

Clerk to the Council.

1149

CHESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the position of **CHIEF PLANNING ASSISTANT (ARCHITECTURE)** at Headquarters. A.P.T., VIII, £685-£725-£760 per annum. Consideration will be given to the up-grading of this post at the next Annual Review early in 1951.

The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to submit a satisfactory medical certificate.

Applicants must be Associates of the Royal Institute of British Architects or hold a similar qualification, and preference will be given to candidates who are also Corporate Members of the Town Planning Institute.

The successful applicant will be required to undertake the detailed planning of housing estates, neighbourhood units and re-development areas, and to advise in the control of elevations.

Application Forms, and further details and conditions attaching to the appointment, may be obtained from the undersigned on receipt of a stamped and addressed foolscap envelope. The last date for the receipt of completed applications is the 27th November, 1950.

KENNETH O. MALE,

County Planning Officer.

Bridgegate House, Lower Bridge Street,

Chester. 1144

CWMBRAN DEVELOPMENT CORPORATION (MONMOUTHSHIRE).

AMENDED ADVERTISEMENT.

Applications are invited for the following appointments in the Department of the Chief Architect, Mr. J. C. P. West, A.R.I.B.A., A.M.T.P.I.

- (a) **ARCHITECT**, fully qualified and experienced and capable of directing a section of the Corporation's housing work. Post-war experience of design and construction of residential areas and handling of contracts essential. Salary range £750-£1,000 p.a.

- (b) **ARCHITECT PLANNER**, with good knowledge of house design and construction, to take charge of preparation of layout schemes, Neighbourhood Units, Housing Sites, etc. Must be Member R.I.B.A., Membership T.P.I. an advantage. Salary within range £750-£1,000 p.a.

- (c) **TWO ASSISTANT ARCHITECTS**, with very good general experience of house design, construction and layouts. Must be A.R.I.B.A. or Registered Architect. Salary within range £550-£750 p.a.

- (d) **TWO JUNIOR ASSISTANT ARCHITECTS**. Graduate, or completed satisfactory period professional training. Salary within range £400-£525 p.a.

- (e) **TWO DRAUGHTSMEN**. Good experience in Architect's office. Salary £300 p.a.

Superannuation scheme for all posts. Applications, stating age, qualifications, experience, together with names of two referees by 24th November, 1950, to the General Manager, Town Hall (Corn Street entrance), Newport, Mon. 1176

**STAFFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECTS' DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL
STAFF.**

Vacancies exist on the permanent staff for experienced and capable ARCHITECTURAL ASSISTANTS, some with special knowledge of housing, at salaries ranging according to grading from £595 per annum to £760 per annum.

A temporary lodging allowance of £1 5s. per week is also payable for a period not exceeding six months, plus third-class return fare home every two months to newly appointed married staff whose homes are outside this geographical County and who are unable to secure housing accommodation.

The appointments will be subject to the scheme and conditions of service of the National Joint Council and to the provisions of the Local Government Superannuation Act, 1937.

Applications, giving full details of experience, qualifications, age, etc., together with copies of three recent testimonials, should be received by the County Architect, Martin Street, Stafford, within 14 days of the appearance of this advertisement.

Applicants must disclose whether or not they are related to any member or senior officer of the Council.

T. H. EVANS,

Clerk of the County Council.

County Buildings, Stafford. 1007
4th October, 1950.

BRACKNELL DEVELOPMENT CORPORATION (Bracknell, Berks.), invites applications for the post of

CHIEF QUANTITY SURVEYOR.

Salary £1,000-£50-£1,150.

The commencing salary will be fixed at an incremental point within the grade, according to qualifications and experience.

Applicants should be Members of the Royal Institution of Chartered Surveyors and have a wide experience in the preparation of estimates, specifications, bills of quantities, schedules, adjustment of final accounts and cost analyses. The duties will include giving advice on all matters concerning the cost of building works suitable to a New Town of 25,000 population, with particular regard to Housing and Industry.

The successful applicant will work under the direction of E. A. Ferriby, B.Arch., A.R.I.B.A., A.M.T.P.I., Chief Architect to the Corporation.

The post will be superannuable under the Local Government Superannuation Act, 1937, and the appointment will be subject to passing a medical examination.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with the names of two persons to whom reference can be made, must reach the General Manager, Bracknell Development Corporation, Farley Hall, Binfield, Bracknell, Berks., on or before 25th November, 1950, marked "Chief Quantity Surveyor." 1131

FLINTSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of an ASSISTANT ARCHITECT in the County Architect's Department, at a salary on Grade A.P.T. VI (£595 per annum to £660 per annum), or Grade A.P.T. VII (£635 per annum to £710 per annum), or a combination of both Grades, according to qualifications and experience.

Applicants must be Registered Architects and preferably Associate Members of the Royal Institute of British Architects, and should have had adequate professional experience in the preparation of surveys, designs, specifications and construction of modern buildings, particularly school buildings. The appointment is superannuable and subject to the passing of a medical examination. Applications will be considered from Registered Disabled Persons. Applications, on a form to be obtained from the undersigned, are to be returned to me not later than the 27th November, 1950.

W. HUGH JONES,

Clerk of the County Council.

County Buildings, Mold. 1157

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

(a) ASSISTANT QUANTITY SURVEYORS. Salary A.P.T. Grade VII, £635-£710.

(b) MEASURING SURVEYORS. Salary A.P.T. Grade III, £460-£495.

Note.—Suitable housing accommodation can be made available to successful candidates for appointment (a).

Applicants for appointment (a) must be qualified Quantity Surveyors, experienced in taking off and the preparation of Bills of Quantities.

Applicants for appointment (b) must have experience in measuring building work executed on site and the working up incidental thereto. The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Monday, 4th December, 1950.

HARRY TAYLOR,

Town Clerk.

Town Hall, Stoke-on-Trent. 1204
9th November, 1950.

**BOROUGH OF WALTHAMSTOW.
ARCHITECTS' DEPARTMENT.
ASSISTANT ARCHITECT.**

Applications are invited for an Assistant Architect (Grades I-V, £420-£600), commencing salary according to qualifications and experience.

Applications with names of two persons for references should be received by the undersigned not later than the 1st December, 1950.

G. A. BLAKELEY,

Town Clerk.

Town Hall, Walthamstow, E.17. 1182

**COUNTY BOROUGH OF OLDHAM.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.**

Applications are invited for the appointments of Architectural Assistants in my Department as listed below:—

(a) SENIOR ASSISTANT, Grade A.P.T. VII.

(b) SENIOR ASSISTANT, Grade A.P.T. Va.

(c) GENERAL ASSISTANT, Grade A.P.T. V.

(d) JUNIOR ASSISTANT, Grade A.P.T. II.

Applicants for (a) and (b) should be Chartered Architects, and for (c) and (d) should possess the appropriate qualifications laid down by the National Joint Council for the Grading—Special Classes—Architectural Assistants.

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

Housing accommodation will be provided if necessary.

Applications, giving age and previous appointments, in addition to qualifications and experience, and copies of two recent testimonials, must reach me not later than Monday, 4th December, 1950, in envelopes endorsed "Architectural Assistant," Grade VII, Va, V and II, as the case may be.

A. L. HOBSON,

Borough Engineer and Surveyor.

Municipal Buildings, 75, Union Street, 1166
Oldham.

3rd November, 1950.

**CITY AND COUNTY OF THE CITY OF
EXETER.**

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR on the Permanent Staff of the City Architect's Department. The salary will be in accordance with A.P.T., Grade VI (£595 to £660 per annum).

Housing accommodation will be found for the successful applicant if required.

Applicants must be thoroughly experienced in the preparation of Bills of Quantities, Interim Valuations, and Final Accounts.

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

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than 25th November, 1950.

C. J. NEWMAN,

Town Clerk.

Exeter. 1181
November, 1950.

SOUTHERN RHODESIA.

CITY OF SALISBURY.

CITY ENGINEER'S DEPARTMENT.

FIXED ESTABLISHMENT SUPERANNUATION POSTS.

Applications for the following posts will be received by Messrs. Davis & Soper, Ltd., 52 and 54, St. Mary Axe, London, E.C.3, up to 30th November, 1950.

(a) ARCHITECTURAL ASSISTANT. Grade I (£921 12s. x £36-£1,065 12s.).

Applicants must be members of recognised body, or possess University degree or equivalent qualification, with at least 8 years' general architectural experience.

(b) QUANTITY SURVEYING ASSISTANT. (£777 12s. x £36-£921 12s.)

Applicants must be members of recognised professional body, or possess University degree or equivalent qualification, with at least 5 years' general Quantity Surveying experience.

(c) ARCHITECTURAL DRAUGHTSMAN. Grade I (£691 4s. x £36-£835 4s.)

Applicants must be competent Architectural Draughtsmen, with at least 10 years' experience, including some experience of structural reinforced concrete drawings.

In addition above posts carry cost-of-living allowances of approximately 10 per cent. of basic salary, plus £30 per annum for the first child and £24 per annum for each additional child under 16 years.

The successful applicants, who should be under 45 years, must travel to Rhodesia by air. Council will pay air passage, plus £50 for wife, £20 for first child, and £10 for each remaining child, which is proportionately refundable if service is terminated within three years.

The Council's Service and Leave conditions may be inspected at Messrs. Davis & Soper's.

F. J. LOVATT,

Town Clerk.

Salisbury, Southern Rhodesia. 1178

CROWN AGENTS FOR THE COLONIES.

STAFF required by the Gold Coast Government for the Public Works Department for the construction of the Kumasi Central Hospital for two tours of 18 to 24 months. Free passages. Liberal leave on full salary.

RESIDENT ENGINEER (M/N/27190/3A). Fixed consolidated salary between £1,500 to £1,800 a year, according to qualifications and experience. Candidates should be Members of the Institute of Clerks of Works, with a considerable experience as Clerk of Works in the supervision of large scale building works, and possessing a sound knowledge of Bills of Quantities and Building Contract procedure.

MEASURING SURVEYOR (M/N/27191/3A). Fixed consolidated salary between £1,000 and £1,200 a year, according to qualifications and experience. Candidates should be capable of measuring and checking work in progress, variations, preparation of interim valuations, and recording and checking contractor's claims data.

Apply at once by letter, stating age, full names in block letters, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting the reference number of the post applied for on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 1163

CHESTERFIELD RURAL DISTRICT

COUNCIL.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of Quantity Surveyor in the Architectural Section of the Department of the Engineer and Surveyor, Mr. J. B. Wikeley, M.Eng., A.M.Inst.C.E., Barrister-at-Law.

Candidates must be competent to prepare Bills of Quantities for housing contracts and in the settlement of Final Accounts. Preference will be given to those who have passed the Final Examination of the R.I.C.S. Quantities Division. The salary will be in accordance with Scale A.P.T. III-V, according to qualifications and experience.

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

Applications, endorsed "Quantity Surveyor," and giving the names and addresses of two persons to whom reference may be made, must reach the undersigned not later than 9 a.m. on Saturday, the 25th November, 1950.

The Council will give all possible assistance towards the provision of housing accommodation for the successful applicant.

F. W. BROOM,

Clerk to the Council.

Rural Council House, Saltergate, Chesterfield. 1164
3rd November, 1950.

CLACTON URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT, A.P.T., GRADE IV.

Applications are invited for the above appointment, at a salary in accordance with A.P.T. Division, Grade IV, of the National Joint Council Scale (£480-£525 per annum).

Preference will be given to applicants who hold the Intermediate Examination of the R.I.B.A. or equivalent.

Forms of Application may be obtained from Mr. W. Aiston, A.M.I.C.E., Reg.Arch., Engineer and Surveyor, Town Hall, Clacton-on-Sea, and must be delivered, duly completed, in plain sealed envelopes endorsed "Architectural Assistant," to the undersigned by not later than first post on Tuesday, 28th November, 1950.

Canvassing, either directly or indirectly, will disqualify.

CHARLES B. HEARN,

Clerk of the Council.

Town Hall, Clacton-on-Sea. 1165

METROPOLITAN BOROUGH OF

PADDINGTON.

HOUSING DEPARTMENT—ARCHITECTURAL

SECTION.

APPOINTMENT OF TWO QUANTITY

SURVEYOR'S ASSISTANTS.

A.P.T., II, £420-£465 p.a., plus London "weighting."

Applications are invited for these appointments, which are subject to the National Joint Council's Service Conditions, the Council's Superannuation Acts, and to one month's notice on either side.

Candidates should have experience in all branches of building work and be familiar with a Quantity Surveyor's duties, including assisting in the preparation of estimates, working up, abstracting and billing, site measurement, and working up to final account stage. Preference will be given to candidates who have passed or are at the standard of the Intermediate Examination of the R.I.C.S. (Quantities Sub-Division).

Candidates must state age, qualifications, present and past appointments, with dates and salaries, experience, and names of three referees.

Applications must be received not later than noon on Friday, 24th November, 1950.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, W.2. 1200
15th November, 1950.

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT required by the Government of Northern Rhodesia for the Public Works Department, for one tour of 36 months. Commencing salary according to age and experience in the scale £510, rising to £865 a year, plus cost-of-living allowance up to £38 a year. Gratuity on satisfactory completion of services. Free passages. Liberal leave on full salary. Candidates should be students of the Royal Institution of British Architects or have had 5 years' practical experience. A knowledge of survey work and writing of specifications would be an advantage. Apply at once by letter, stating age, full names in block letters, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/27237/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 1191

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architect's Section of the Chief Engineer's Department in Central London.

(a) **ARCHITECTURAL ASSISTANTS.** Commencing salary will be from £500 per annum, dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen, and have had several years' experience in an Architect's office.

(b) **DRAUGHTSMEN.**—Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.

The salaries for the above posts are provisional, pending grading of the posts under the National Agreement of the appropriate negotiating body.

Application forms, obtainable from Establishments Officer, 46, New Broad Street, E.C.2, on receipt of an addressed foolscap envelope, to be returned duly completed not later than 25th November, 1950. Please quote ref. EST/V/1042/A, on envelope, and all correspondence. 1187

COUNTY BOROUGH OF GATESHEAD.

CHIEF ARCHITECT'S DEPARTMENT.

APPOINTMENT OF CLERKS OF WORK.

Applications are invited for the appointment of Clerks of Work in the Chief Architect's Department, to supervise the erection of permanent houses and other buildings.

Applicants must have a sound and practical knowledge of the building trades, and be experienced in the supervision of all types of houses and other buildings, including setting out, levelling, measuring up, and keeping records. The salary will be in accordance with A.P.T., Grade IV, commencing £480×£515—£525 per annum.

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

Applications, to be made on forms obtainable from the Chief Architect, should be returned, together with copies of three recent testimonials, to H. J. Cook, A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, E., not later than Thursday, 30th November, 1950.

J. W. PORTER, Town Clerk.

Town Hall, Gateshead, E.
8th November, 1950. 1193

LONDON COUNTY COUNCIL.

Required as soon as possible at Hammersmith School of Building and Arts and Crafts, Lime Grove, W.12, **STUDIO MASTER** in Architectural Section, preparing students for examination of the R.I.B.A. Applicants should hold the A.R.I.B.A. and have preferably been trained at a School of Architecture. Facilities will be afforded for private practice.

The salary ranges (for a man) from a minimum of £336-£518 to a maximum of £603-£708, according to age, qualifications and experience, and is subject to review on 1st April, 1951.

Application forms (stamped addressed foolscap envelope required) from the Secretary at the School, returnable by 2nd December, 1950 (1441). 1205

HOLLAND COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a **QUANTITY SURVEYOR** on the permanent staff, in Grade VIII, at a salary of £685-£760 per annum.

Preference will be given to Members of the Royal Institution of Chartered Surveyors who have qualified in the Quantities Section.

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, particulars of training, qualifications, experience, present and past appointments, together with copies of recent testimonials, should be addressed to the County Architect, County Hall, Boston, Lincs., and be delivered not later than 30th November, 1950.

H. C. MARRIS, O.B.E.,

Clerk of the County Council.

County Hall, Boston, Lincs.
3rd November, 1950. 1160

RHONDDA URBAN DISTRICT COUNCIL.

Applications are invited from suitably qualified persons for the appointment of **ASSISTANT ARCHITECT** in the Department of the Council's Housing Architect, at a salary in accordance with Grade A.P.T., VI (£595×£20×£25—£660).

Applicants for the post should have sound general architectural experience and must be good draughtsmen. Previous Local Government experience is not essential, but preference will be given to Associates of the Royal Institute of British Architects.

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

Applications on forms to be obtained from the Housing Architect, Mr. C. Giggell, A.R.I.B.A., A.R.I.C.S., 13, Vetchin Road, Pentre, Rhondda, accompanied by copies of two recent testimonials, to be returned to the undersigned in envelopes endorsed "Assistant Architect" not later than Monday, the 4th of December, 1950.

D. J. JONES,

Clerk of the Council.

The Council Offices, Pentre, Rhondda. 1190

NORTON RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited for this whole-time appointment, at a salary in accordance with Grade IX of A.P.T. Division of the National Scale (£750×£50—£900). Housing accommodation will be provided for the successful candidate.

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

Applicants should be Associates of the Royal Institute of British Architects.

The person appointed will be required to carry out architectural duties in connection with housing schemes and other works. He will also be required to provide and maintain a car for the purpose of such duties, for which a travelling allowance will be paid in accordance with the National Scale.

Applications, stating age, qualifications and experience, together with names of three referees, should be submitted to the undersigned not later than noon on Friday, the 24th November, 1950. Canvassing will disqualify.

T. W. PRESTON D.P.A. (Lond.),

Clerk of the Council.

Rural District Council Offices,
Welham Road, Norton, Malton. 1189

GOWER RURAL DISTRICT COUNCIL.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade V (£520×£570 of the National Scale).

Applicants must be Associates of the Royal Institution of British Architects and have had experience in:—

Municipal Housing Schemes, Shops, Adaptations, Estimating and Supervision of Works.

The appointment is a temporary one for a minimum period of three years, and will be terminable by one month's notice in writing on either side. It is also subject to the Local Government Superannuation Act, 1937.

Applications, endorsed "Senior Architectural Assistant," stating age, experience and qualifications, and accompanied by copies of not more than three recent testimonials, should be delivered to the undersigned not later than noon on Thursday, 30th November, 1950.

H. K. NEWCOMBE,

Clerk of the Council.

Council Offices, 8, Uplands Crescent,
Swansea. 1188

BRITISH ELECTRICITY AUTHORITY.

SOUTH WALES DIVISION.

Applications are invited for the following appointments at the Uskmouth Generating Site, near Newport:—

(a) **TWO SITE MEASURING CLERKS**, at a salary in accordance with Grade II of the National Joint Council (Administrative and Clerical Grades) Permanent Agreement (£390-£450 per annum).

(b) **TWO WORKS INSPECTORS**, at a salary of £450 per annum.

These appointments will be temporary for a period of approximately two years, and the salaries are provisional and subject to negotiation through the appropriate National machinery. Consideration will be given to the payment of a travelling or subsistence allowance.

Applicants for (a) should be capable of dealing with measurements of large contracts by standard methods.

Applicants for (b) should have been engaged on large civil engineering works, involving pile driving, bulk excavations, and heavy foundation and superstructure work.

Forms of application may be obtained from the Divisional Secretary at the address below, to whom completed applications should be returned not later than 25th November, 1950, in sealed envelope endorsed with the appointment sought.

H. V. PUGH,

Divisional Controller.

Cardiff (Pengam Moors) Airport, Cardiff.
4th November, 1950. 1177

COUNTY BOROUGH OF MERTHYR TYDFIL.

BOROUGH ENGINEER SURVEYOR AND ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **SENIOR ARCHITECTURAL ASSISTANT.** Grade A.P.T., VI.

(b) **ARCHITECTURAL ASSISTANT.** Grade A.P.T., IV.

(c) **QUANTITY SURVEYOR.** Grade A.P.T., VI.

Candidates for (a) must have had considerable experience in the design and construction of houses, clinics, public buildings and general architectural work, in the preparation of specifications, bills of quantities and estimates in connection therewith. Applicants must be Associate Members of the Royal Institute of British Architects.

Candidates for (b) must have passed the Intermediate R.I.B.A. examination and have had at least two years' experience after attaining that qualification.

Candidates for (c): Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (having qualified in the Quantities Sub Division), capable of preparing specifications and estimates, taking off abstracting and billing quantities, and dealing with the Contractor's accounts for all classes of Municipal building and engineering work.

The appointments will be subject to:—

(1) Scheme of Conditions of Service of the National Joint Council.

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

(3) The passing of a satisfactory medical examination.

(4) One month's written notice on either side.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than Thursday, the 30th November, 1950.

Canvassing in any form will be deemed a disqualification.

T. S. EVANS,

Town Clerk.

Town Hall, Merthyr Tydfil.

3rd October, 1950. 1172

BOROUGH OF WEDNESEURY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade VII (£635 to £710 per annum).

Applicants must be Associates of the Royal Institute of British Architects and be experienced in the design, erection and maintenance of houses, flats, and public buildings.

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

Applications, stating age, qualifications and experience, and enclosing copies of two recent testimonials, are to be received by the Borough Engineer and Surveyor, Mr. C. G. Morris, not later than 6th December, 1950.

G. F. THOMPSON,

Town Clerk.

Town Hall, Wednesbury, Staffs.

13th November, 1950. 1206

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Borough Architect and Buildings Surveyor's Department:—

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

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

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

Applications, stating age, qualifications, and full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Monday, 20th November, 1950, in envelopes endorsed "Architectural Assistant—Grade V (or IV)."

A. NORMAN JAMES,

Town Clerk.

Town Hall, Dewsbury.

6th November, 1950. 1175

CORPORATION OF LONDON.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

AUXILIARY STAFF.

Applications are invited for the appointment of an Assistant within the range of the General Grade—£375×£20—£475—according to age and experience. Age to be 25 to 30 years. Applicants should have had good office experience and have passed or be preparing for Intermediate R.I.B.A. or R.I.C.S. Examinations.

The appointed officers will require to pass a medical examination and to contribute to the Corporation's Superannuation Fund as maintained under the City of London (Various Powers) Acts, 1931 and 1950.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/61, Moorgate, London, E.C.2, not later than Monday, 4th December. 1214

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
 The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, Wrexham, viz.:-

(a) ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade VI. Salary £595-£660 per annum. Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in Architectural design and construction of Modern School Buildings, and other works carried out by Local Authorities.

(b) ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade V. Salary £520-£570 per annum. Preference will be given to Members of R.I.B.A. or Registered Architects. Applicants must have had sound experience in Architectural design and in the preparation of working drawings, with full understanding of Modern School construction.

(c) TWO JUNIOR ASSISTANT ARCHITECTS. A.P.T. Division, Grade III. Salary £450-£495 per annum.

Preference will be given to applicants who have passed the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and details for modern buildings.

(d) ONE JUNIOR ASSISTANT ARCHITECT. A.P.T. Division, Grade II. Salary £420-£465 per annum.

Preference will be given to applicants who are preparing for the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and details.

(e) ONE SPECIFICATION WRITER. A.P.T. Division, Grade IV. Salary £480-£525 per annum.

Applicants for post (e) must have had Architectural and Quantity Surveying experience, and possess a thorough knowledge of current Building Practice and Materials. They must be fully capable of preparing detailed Specifications for Building and Painting Works of all descriptions in connection with County Council properties, and be able to prepare enquiries and deal with Provisional Sum Items in connection with new building projects. The successful applicants will also be required to assist generally in the Quantity Surveyor's Department.

The appointments will be subject to termination of one month's notice in writing on either side, to expire at the end of a calendar month, and also to the provisions of Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination and to reside in such place in the County as the County Council may direct.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned not later than the 30th day of November, 1950.

W. E. BUFTON,

Clerk of the County Council.

County Offices, Ruthin.
 11th October, 1950. 1138

BOROUGH OF SCARBOROUGH.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from Registered Architects for the appointment of Architectural Assistant on Grade A.P.T. V (£520-£570) of the National Scale of Salaries. The work will mainly consist of the design and layout of houses and other buildings required in the development of housing estates, the letting of contracts, and the supervision of construction.

The appointment will be subject to one calendar month's notice on either side, and the successful candidate will be required to pass a medical examination, and to contribute to the Corporation Superannuation Fund.

Candidates should submit applications, stating age, experience, technical qualifications, present and past appointments, and the names of two persons to whom reference may be made, to reach the undersigned by Saturday, 2nd December, 1950.

H. V. OVERFIELD, M.I.C.E.,

M.I.Mun.E.,

Borough and Water Engineer.
 Town Hall, Scarborough.
 November, 1950. 1198

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.
 Applications are invited from suitably qualified persons for the following appointments to the permanent staff:-

(a) SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VII. £635-£710.
 (b) ARCHITECTURAL ASSISTANTS. Salary A.P.T. Division, Grade III. £450-£495.

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

Previous experience of Local Government work is not essential.

Suitable housing accommodation can be made available to the successful candidates for appointment (a).

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggett, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Monday, 4th December, 1950.

HARRY TAYLOR,

Town Clerk.
 Town Hall, Stoke-on-Trent.
 9th November, 1950. 1203

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.
PLANNING STAFF.

Applications are invited for positions of PLANNING OFFICER, Grade II (£700-£840), Grade III (£550-£700), and TECHNICAL ASSISTANTS (up to £580). The positions are superannuable. Candidates for Grade II and III positions should have architectural or surveying qualifications, preferably with town planning qualifications in addition. They will be engaged on Information and Research Development Plan, Reconstruction Areas, Development Control or Detailed Planning. Technical Assistants are required for work on all these aspects.

Particulars and application forms from the Architect, AR/EK/P, The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualified. (1429) 1192

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT (TEMPORARY) required by the Sierra Leone Government for the Public Works Department for one tour of 18-24 months in the first instance. Salary including expatriation pay according to age and experience between £720 and £1,290 a year, plus cost-of-living allowance up to £123 a year. Outfit allowance up to £60. Gratuity on satisfactory completion of services. Free passages. Liberal leave on full salary. Candidates should have passed the R.I.B.A. Intermediate Examination and have had some practical experience in private architects' offices, or those of local authorities with preferably some experience of site supervision. Apply at once by letter, stating age, full names in block letters, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/2727/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications and will communicate only with applicants selected for further consideration. 1162

WAR DEPARTMENT.

Applications are invited from suitably qualified persons for the following civilian posts in Royal Engineer Works Services in the Far East (Malaya, Singapore and Hong Kong). Appointments are temporary and for a period of two years with possibility of extension. Minimum qualifications required.

(a) SENIOR DRAUGHTSMEN. Applicants must have had good experience in Architect's office. Salary range: £625 to £750 p.a.

(b) LEADING DRAUGHTSMEN. Qualifications as for (a). Salary range £500 to £625 p.a. Salaries for posts (a) and (b) are subject to U.K. income tax.

(c) DRAUGHTSMEN. Qualification as for (a). Salary range £300 to £525 p.a. (not subject to U.K. income tax).

Commencing salary according to age, qualifications and experience. Yearly increments. In addition Foreign Service Allowance is payable which is not liable to U.K. income tax. Present rates:-

Single (with free food and accommodation): Malaya and Singapore, £75; Hong Kong, £55.

Married, unaccompanied (with free food and accommodation): Malaya and Singapore, £240; Hong Kong, £220.

Married, accompanied (accommodated): Malaya and Singapore, £775; Hong Kong, £525.

Married, accompanied (unaccommodated): Malaya and Singapore, £1,000; Hong Kong, £225.

An initial outfit grant of £30 is also payable. Successful married applicants will be expected to proceed unaccompanied, but arrangements would be made for families to join them at public expense when they have found suitable accommodation.

Applications, stating age, qualifications and experience, and quoting Reference No. O.M.F.6499, should be forwarded to: Ministry of Labour and National Service, Overseas Department, 12/13, St. James's Square, London, S.W.1. 1174

COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT AND TOWN PLANNING OFFICER.

Applications for the following permanent posts, stating age, qualifications, experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving the names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.P.E.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 27th November, 1950. Canvassing will be disqualified.

(a) ASSISTANT ARCHITECT, Grade V, A.P.T. (£520-£570).

Candidates must be Registered Architects and should have sound design ability and be experienced in the preparation of working drawings and estimates. Successful applicant will be engaged in the Education Section, and preference will be given to applicants having experience in educational work.

(b) ARCHITECTURAL ASSISTANT, Grade III, A.P.T. (£450-£495).

Candidates should have reached Intermediate R.I.B.A. standard. Successful candidate will be engaged on two- and three-storey houses and three- and six-storey flats, etc., in the Housing Section.

C. E. VIVIAN ROWE,

Town Clerk.
 Town Hall, Northampton.
 1213

WEST SUFFOLK COUNTY COUNCIL.
APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited from suitably qualified persons for the appointment of Senior Planning Assistant in the County Planning Department at Bury St. Edmunds.

The salary will be within Grades A.P.T., V-Va (£520-£610 per annum), and the successful candidate will be required to provide a motor car, for which a mileage allowance will be paid in accordance with the County Scale.

The duties of the appointment will be confined principally to work in connection with the preparation of the Development Plan, and candidates should have had considerable experience in all aspects of Town and Country Planning, the preparation of factual surveys, and the planning of towns and villages.

Applicants for the appointment should have passed the Associate Membership Examination of the Town Planning Institute, and preference will be given to those possessing additional qualifications in engineering, surveying or architecture.

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 in own handwriting, stating age, education, war service (if any), experience, present position and salary, together with the names of two referees, should reach the undersigned not later than the first post, Thursday, 30th November, 1950.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 1201

WEST SUFFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department. Salaries as indicated in accordance with the National Joint Council Salary Scales, position on scales according to qualifications and experience, viz.:-

(a) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VII (£635-£710).

(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade V (£520-£570).

(c) JUNIOR ENGINEERING ASSISTANT. A.P.T., Grade III-IV (£450-£525).

(d) BUILDINGS INSPECTOR. A.P.T., Grades III-IV (£450-£525).

Applicants in respect of (a) should be Associates of the Royal Institute of British Architects, with not less than three years' office experience, and have a sound knowledge of architectural design and construction, be quick and accurate draughtsmen, capable of preparing sketch plans, working drawings, and specifications in respect of new schools, police, health and other building work normally undertaken by a Local Authority.

Applicants in respect of (b) should have passed the Final Examination of the R.I.B.A., or equivalent examination, and have sound general experience in architectural work.

Applicants in respect of (c) should be either Graduate Members of the I.H.V.E., or I.M.E., or hold an equivalent qualification and have had two years' practical experience, followed by a period spent in a drawing office of a reputable firm engaged upon the design of engineering installations and services. The successful candidate will be required to assist in the design and preparation of drawings and supervision of works in respect of heating, hot and cold water installations and other types of installations carried out in the Council's buildings.

Applicants in respect of (d) must have a thorough knowledge of building construction, and should have experience in the preparation of reports and specifications in respect of maintenance and repairs to all classes of buildings, and supervision of the work. The successful candidate must provide his own transport, for which a travelling allowance will be paid in accordance with the County Scale.

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

Forms of application may be obtained from the undersigned, by whom applications, together with the names of two referees, should be received not later than 14 days after the date of publication of this advertisement.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 1200

MINISTRY OF WORKS.

SENIOR ARCHITECTURAL ASSISTANTS are required in the Chief Architect's Division who have had first-class experience and who are capable of supervising drawing office staffs. These Assistants are employed in London, Scotland and the main Provincial centres, on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, Office Buildings, etc. London salary, £625-£750 per annum. Salary elsewhere is slightly lower.

Although these are not established posts, many have long term possibilities. Apply in writing giving full details of age, qualifications and experience, to Mr. W. A. Rutter, O.B.E., F.R.I.B.A., Chief Architect (W.G.10), Abell House, John Islip Street, Westminster, S.W.1, quoting reference W.G.10/B.E. Locality preferred should be stated. 1173

LONDON COUNTY COUNCIL.
ARCHITECTS' DEPARTMENT.

Applications are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT (up to £580) for work on new housing, schools, and other public buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications. Application forms from the Architect (AR/P/8), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (384) 3914

CITY OF SALFORD.

The Council invite applications for the following appointments on the Permanent Staff of the City Engineer and Surveyor's Department:-

TWO ARCHITECTURAL ASSISTANTS. Grades V and VI (£520-£570) (£595-£660).
FOUR ENGINEERING ASSISTANTS. Grades III to VI (£450-£495) (£480-£525) (£520-£570) (£595-£660).

TWO TOWN PLANNING ASSISTANTS. Grades V and VI (£520-£570) (£595-£660), and appointments will be made within the above-mentioned Grades, according to qualifications and experience. (The above salary Grades are at present under review.)

The appointments will be subject to (1) the provisions of the Local Government Superannuation Act, 1937; (2) the passing of a medical examination; (3) the Standing Orders of the Council; (4) the Conditions of Service of the National Joint Council.

Applications, stating age, qualifications and experience, together with particulars of past and present employment accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed clearly as to the appointment for which application is submitted, addressed to the City Engineer, Town Hall, Salford, 3, Lancs., so as to be received not later than Thursday, 30th November.

H. H. TOMSON,
Town Clerk. 1141

UNIVERSITY OF CAPE TOWN
(SOUTH AFRICA).

Applications are invited for the post of SENIOR LECTURER IN QUANTITY SURVEYING, and for three posts of STUDIO MASTER in the School of Architecture.

SENIOR LECTURER IN QUANTITY SURVEYING. The successful applicant must be a Member of the Chapter of South African Quantity Surveyors (or eligible for membership), must be thoroughly experienced in quantity surveying practice in all its aspects and with the standard system of measuring builders' work in South Africa.

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Salary scales offered to applicants with some years of professional experience are:—
Senior Lecturer in Quantity Surveying, £800 × £40-£1,000 per annum; Studio Master in Architecture, £550 × £25-£800 per annum. There is also a temporary cost-of-living allowance, at present £208 per annum for a married man and £23 per annum for a single man.

Further particulars and information as to method of application may be obtained from The Secretary, Association of Universities of the British Commonwealth, 5, Gordon Square, London, W.C.1. Closing date for the receipt of applications is 23rd December, 1950. 1207

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the under-mentioned appointments:—

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

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

ARCHITECTURAL ASSISTANT (Grade A.P.T., D). Salary £390 to £435 per annum.

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

The Council will be prepared to consider applications for a subsistence allowance in appropriate cases from persons appointed should they be unable to obtain suitable housing accommodation.

Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 27th November, 1950), may be obtained from the undersigned.

Canvassing will disqualify. H. A. EDWARDS,
Town Clerk. 1197

Town Hall, East Ham, E.6.

ARCHITECTURAL DRAUGHTSMAN.

DEPARTMENT OF HEALTH FOR SCOTLAND invite applications from experienced draughtsmen for a temporary post of ARCHITECTURAL DRAUGHTSMAN. The successful candidate will be employed on working drawings of various Government buildings. Salary range £292-£510 (women £440). Form of application obtainable from Establishment Officer, Department of Health for Scotland (Room 30), St. Andrew's House, Edinburgh, 1, must be returned by 30th November. 1161

CARMARTHENSHIRE COUNTY COUNCIL.
COUNTY ARCHITECTS' DEPARTMENT.
(AMENDED ADVERTISEMENT).

Applications are invited for the following posts in the Department:—

(a) ONE ASSISTANT ARCHITECT. Grade VII (£635-£710).

(b) ONE ASSISTANT ARCHITECT. Grade VI (£595-£660).

(c) ONE ARCHITECTURAL ASSISTANT. Grade II (£420-£465).

(d) ASSISTANT QUANTITY SURVEYOR. Grade III (£450-£495).

Candidates for posts (a) and (b) must be Associates of the Royal Institute of British Architects, and must have had a good experience in the design and construction of educational and general building normally carried out by a Local Authority.

Candidates for post (d) should be fully experienced in working-up, final accounts, site measuring, and have had some experience in the taking-off of minor works.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side.

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

Forms of application may be obtained from W. T. Lloyd, A.R.I.B.A. County Architect, County Hall, Carmarthen, to whom applications should be submitted by the 29th November, 1950. DANIEL JOHNS,

Clerk of the County Council.
County Offices, Carmarthen. 1199
9th November, 1950.

NEWCASTLE-UPON-TYNE REGIONAL

HOSPITAL BOARD.

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VIII, A.P.T.).

Applications are invited for the appointment of a Senior Assistant Architect, to take charge of the present small central drawing office staff, which will probably soon be expanded. The post will be on the permanent staff of the Board's Architect.

Candidates must be Members of the Royal Institute of British Architects, and have had extensive and responsible experience in the design and construction of large public buildings, including some experience in hospital and health service buildings. They must be capable of taking projects through all stages and of supervising an architectural staff.

To architects interested in becoming hospital specialists the appointment offers wide scope, great interest, and excellent opportunities of good class work in a developing service.

The salary will be in accordance with Grade VIII of the A.P.T. Division of the National Scale, i.e., £685 per annum, rising by annual increments of £25 to £760 per annum, consolidated.

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

Applicants should state: (1) Name and full address; (2) age and whether married; (3) degrees and professional qualifications; (4) experience; (5) present appointment and salary; (6) war service; (7) date available if appointed; (8) names and addresses of three referees.

Applications are to be received not later than the 1st December, 1950, and are to be addressed to The Secretary to the Board, "Dunira," Osborne Road, Jesmond, Newcastle-upon-Tyne, 2. E. B. JENKINS,

Secretary.
"Dunira," Osborne Road, Jesmond, Newcastle-upon-Tyne, 2. 1216

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Application forms, together with further particulars obtainable from Registrar, to whom they should be returned not later than 14 days after appearance of this advertisement. 1215

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Clerk of the County Council.
Middlesex Guildhall, Westminster, S.W.1. 1220

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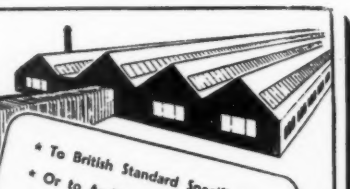
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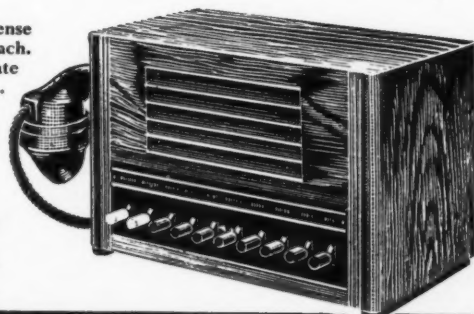
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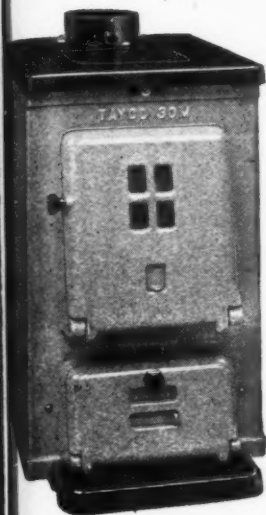


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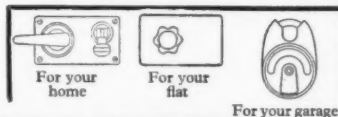
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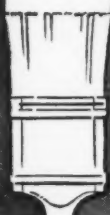
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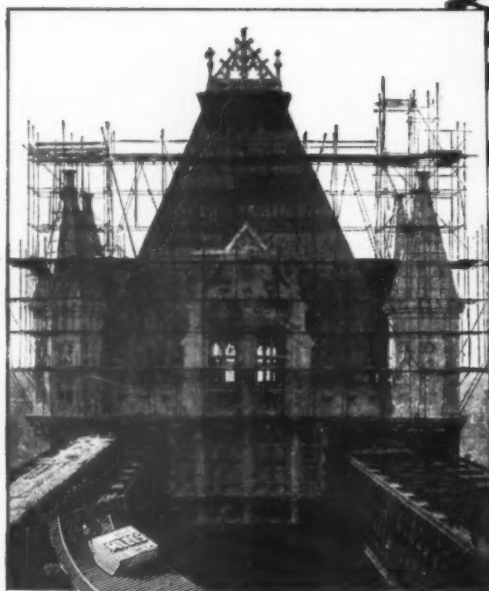
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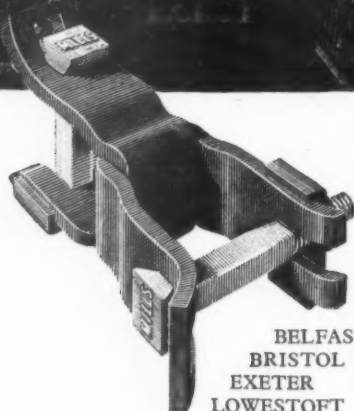
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