

HANDBOOK  
FOR THE  
LONDON DEFENCE  
POSITIONS

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FOR THE

LONDON DEFENCE  
POSITIONS.

(PROVISIONAL.)

[1903]



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HANDBOOK

NOT FOR

LONDON DEFENCE

POSITIONS

(PROVISIONAL)



1882-1883-1884

## PREFACE.

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The object of this book is to enable the officers concerned to become acquainted in as short a time as possible with the proposed arrangements for resisting an invasion on the line of the London Defence Positions, so that they may be in a position to undertake their respective duties in the proposed scheme with the least possible delay and the utmost possible accuracy.



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Map (in pocket of cover) ; scale, 4 miles to 1 inch.



Appendix A, Table A.—To show the distribution of the Maps A and B, and Handbooks of the London Defence Positions, in peace and on mobilization.

Appendix B.—Number and locality of each section of the various London Defence Positions, showing the gun groups, Infantry Brigade areas, &c., contained in it.

Appendix C, Table C.—Detail of Volunteers allotted to the London Defence Positions.

Appendix D, Table D—

Part I.—Table to show the gun groups in each London Defence Position, to which each battery, Royal Garrison Artillery (Volunteers) is allotted, on the order being issued to concentrate for defence on that position.

Part II.—The same as Part I., but for Volunteer Infantry Brigades, and the areas to which allotted.

Part III.—Table to show the places to which Volunteer batteries and brigades shown as in reserve in Parts I. and II. will proceed on the same order being issued.



# HANDBOOK

## FOR THE

# LONDON DEFENCE POSITIONS.

### (PROVISIONAL.)

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## I.—HISTORICAL SUMMARY.

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1. The origin of the scheme for defending London was a memorandum, drawn up in 1888, by Colonel Ardagh, A.A.G., explaining the importance of the subject, and suggesting the acquisition of 30 sites, where small works, capable of expansion, might be built, which would form “points d'appui” for entrenched positions, which it might subsequently be desired to construct, would bar important roads and act as storehouses for entrenching tools and ammunition. He considered that at least a week would be available for entrenching the necessary positions, and proposed to draw up projects for their preparation, to be entrusted for execution to the Railway and Engineer Volunteer Staff Corps, under the Inspector-General of Fortifications.

2. The acquisition of certain sites where storehouses, or so-called “Forts” have since been built, was sanctioned in 1889, and in 1890, a committee of three officers was appointed to draw up a scheme for the occupation of the defensive line round London. They were told the number of troops that were to be made available, their places of concentration, and the position of the “Forts,” which it had been decided to erect: and they were required:—

(1.) To examine the line of the chalk ridge from Guildford, by the Darent Valley, to Dartford; and, north of the Thames, a line from Vange, by Brentwood, to North Weald.

(2.) To determine the probable points of passage of those lines by an invader.



(3.) To prepare detailed schemes, showing the tactical disposition of units :—

(a.) Assuming the point of passage to be held by one regular Infantry brigade and three Field batteries.

(b.) Assuming the position covering the point of passage to be held in force by the following strength, viz. :—

If south of the Thames—Two Army-Corps, plus the Volunteers concentrating within the defended front of that position, as well as half the remaining Volunteers concentrating south of the Thames.

If north of the Thames—Two Army-Corps, plus all the Volunteers concentrating north of the Thames.

3. The work of this committee was completed in March, 1892, and forms the basis of the present arrangements. It consisted of—

(1.) A general report south of the Thames.

(2.) A general report north of the Thames.

(3.) Two 1-in. maps of the lateral communications, north and south of the Thames respectively.

(4.) Reports on the lateral communications.

(5.) Detailed reports on the preparation and occupation of positions selected.

(6.) A series of 6-in. maps, showing the proposed dispositions, entrenchments, clearances, &c., in each position.

These last are known as "Maps A," and are described in Section V. of this handbook.

4. Subsequently working plans for the redoubts, profile types for the trenches, &c., shown on Maps A, and instructions for officers preparing sections for defence, were printed.

5. Camping grounds were selected for 18 Volunteer brigades and 57 position batteries, and maps of these camps showing water supply, &c., were prepared. Advanced depots were selected and maps and reports of railway stations were made, showing the proposed arrangements for detraining, &c.

6 In 1900, out of correspondence on the subject of



provision of tools for the preparation of the positions, the question arose as to whether it would not be better to employ navvies, to execute the proposed works, than Volunteers, on whom reliance had been chiefly placed, for the purpose, up till then.

In 1901, a committee which considered the subject recommended that—

Responsi-  
bility of the  
Mobilization  
Division and  
of the Inspec-  
tor-General of  
Fortifications.

(1.) The Inspector-General of Fortifications should be entirely responsible for the execution of the necessary works; for the preparation and maintenance of plans; for the obtaining and allotting of labour, making the fullest use of labour supplied by the great contractors; for the transport of the labour to the place required; for the housing and feeding of the navvies; and for the provision of tools, &c. He was to certify yearly that all the arrangements were up to date. The only condition to be that the work should be completed on the eighth day from the issue of the order to commence.

(2.) The Mobilization Division should keep the Inspector-General of Fortifications informed of the Commander-in-Chief's decisions as to the occupation of the positions, on which decisions the Inspector-General of Fortifications' plans and arrangements would be based.

(3.) Officers appointed by the Inspector-General of Fortifications and the Mobilization Division should constitute an informal committee to carry out these proposals.

7. The recommendations of this committee were approved, and in 1902 the Inspector-General of Fortifications took over the responsibility for the preparation of the positions (*see* Section VI.).

8. At the same time the whole subject of the London Revision of Defence Positions was reconsidered, and owing to changes in tactical ideas and large alterations in the strength and organization of the Volunteer forces available, the then existing arrangements were seen to be in some respects out of date and inadequate. It was therefore decided to appoint a fresh committee to revise the tactical dispositions, where necessary, and bring the scheme up to date in every respect. This revision has not yet been completed.



Provisional  
scheme.

9. As however it was to be expected that this revision would be a somewhat lengthy undertaking, a temporary scheme was drawn up, so that an emergency might not find us unprepared.

10. This temporary scheme, which is now (1903) in force, is based on the 6-in. Maps A, mentioned above; the dispositions, trenches, batteries, clearances, &c., shown on these maps have not been altered, but certain amendments in nomenclature have been made on the maps to enable them to be utilized. A detailed description of the existing arrangements will be found in Sections V. and IX. of this handbook.



## II.—STRATEGICAL CONSIDERATIONS ON WHICH THE DETAILS OF THE LONDON DEFENCE POSITIONS HAVE BEEN WORKED OUT.

### GENERAL PRINCIPLES OF DEFENCE.

1. It is in the first place assumed that no foreign power <sup>Invasion.</sup> will attempt an actual invasion of the United Kingdom unless it has, by some means assured to itself, for a greater or less period, the command of the intervening seas, for until this has been done, no expeditionary force of any size could be conveyed across them.

2. In the second place, the view has been adopted that <sup>Enemy's</sup> the main objective of any enemy, attempting invasion, will <sup>objective.</sup> undoubtedly be London, owing to the disastrous effects upon our power of resistance which its occupation would produce. So long as the capital is intact, any other enterprises the invader might undertake would be of doubtful advantage to him. On the one hand the capture of other towns, or the occupation of other districts would exert little real influence on the course of the campaign, while such towns or districts would inevitably again fall into our hands if he was defeated; on the other hand, every day would give increased strength and efficiency to our Field Army, which sooner or later he would have to meet.

3. Upon these considerations combined with a recognition of the possibility of raids on a smaller scale, either in Ireland or against one of our great dockyards or arsenals, the general scheme of the defence of the United Kingdom is based.

### OUTLINE OF THE SCHEME.

4. This scheme contemplates the organization for home defence, of:—

(a.) A Field Army, whose composition and strength will depend upon whether an expeditionary force has been sent abroad or not, supported by

(b.) A large force of Volunteers organized in 10 divisions, primarily intended for the occupation of selected positions round London, and including a suitable proportion of heavy Field Artillery.



(c.) Garrisons for the coast districts of the United Kingdom, subdivided into—

(I.) Garrisons of Fortresses and Defended Mercantile Ports.

(II.) Movable Columns to prevent and defeat small raids, and to maintain internal order.

5. The Field Army is intended to engage the enemy in the open field, after he has landed and his main advance has declared itself. It is to be supported by the Volunteer divisions, occupying the selected positions round London, described in Section III.

6. The General Officer Commanding the Field Army, who will probably be the Commander-in-Chief, will also command the ten (Volunteer) divisions; but these latter will be more directly under the orders of two General Officers, who will command those north and south of the Thames, and will be styled General Officer Commanding Northern Thames Defence and General Officer Commanding Southern Thames Defence respectively.

7. Unless the British Fleet is permanently crippled, and therefore unable to interfere in any way with the transport of the invading troops, time will be an essential element in the hostile General's plans. In order to reach London he will therefore probably attempt to disembark his main force somewhere between Portsmouth and Harwich, as this section of the coast gives access to the shortest roads to London and includes most of the best landing places.

The eastern coast between Great Yarmouth and Harwich comes next in order of suitability for an invader.

8. It follows that the first concentration of the British defending forces should be to the south and east of London.

Troops so disposed would moreover have time to interpose themselves between the capital and an invader should he land elsewhere.

9. Hence the Field Army covered by its cavalry and by the Imperial Yeomanry will, on concentration, be distributed along a front extending from Aldershot by Gravesend, where means of passage across the Thames will be provided, to Colchester.

Behind this front and in second line (see Section III.)

First concentration.



the 10 Volunteer divisions will be posted in the selected defence positions, six south of, and four north of the Thames.

10. Whether these Volunteer divisions are subsequently called up in support of the Field Army, or whether the Field Army falls back on one of the entrenched positions in second line, held by them, will be decided by the General Officer Commanding the Field Army, and will depend on various circumstances, such as the strength of the enemy, the rapidity of his advance, and our own state of preparedness, especially as regards the organization of the Volunteer divisions. At the time when the General Defence Scheme was first drawn up, the organization of these troops was in a very elementary state, and transport, supply and medical services did not exist. It was therefore unavoidable to assign to them a strictly defensive rôle. Now, however, that they have been grouped into divisions, with artillery allotted to them, and that regimental transport has been sanctioned and the nucleus of brigade transport, supply, and medical services approved, it is hoped that before long they may be fairly reckoned as mobile troops, available to act with the Field Army.

11. At the same time their first duty is the occupation of the selected defence positions round London, and the completion of these positions for defence. (The arrangements made for the preparation of these positions by civil labour are described in Section VI., and the allotment of the troops to them in Section IV.).

12. It is contemplated that should the General Officer Commanding the Field Army decide to fall back, it will be possible to mass the bulk of the Volunteer divisions on the particular position he may select, by the time the Field Army reaches it, so that all available forces may be concentrated there for the decisive engagement with the invader (see Section IV.).

Subsequent concentration.

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### III.—DESCRIPTION OF THE LINE OF LONDON DEFENCE POSITIONS.

(See map at end.)

#### General line.

1. The line of London Defence Positions extends, south of the Thames, from a point 5 miles west of Guildford, on the Hog's Back, eastwards along the main chalk ridge, by Dorking and Reigate, to the valley of the Darent near Halstead, whence it follows the western slopes of that valley as far as the Thames at Dartford.

North of the Thames it extends north-westward through Essex, from Vange on the Hole Haven Creek, by Laindon Brentwood and Kelvedon Hatch, to North Weald (Epping).

#### Positions.

2. It is proposed to entrench this line practically throughout, but for tactical purposes it is divided into 10 regularly prepared positions, barring the principal roads which cross the line between the coast and London. Six of these positions are south of the Thames, and four north of it; and some of them overlap slightly. They are respectively known by the following names:—

|                        | Length in miles. |    |    |    |    |
|------------------------|------------------|----|----|----|----|
| Guildford .. .. .      | ..               | .. | .. | .. | 7½ |
| Dorking .. .. .        | ..               | .. | .. | .. | 7¼ |
| Red Hill .. .. .       | ..               | .. | .. | .. | 7  |
| Godstone .. .. .       | ..               | .. | .. | .. | 5¾ |
| Westerham .. .. .      | ..               | .. | .. | .. | 7¼ |
| Darent .. .. .         | ..               | .. | .. | .. | 7½ |
| Laindon .. .. .        | ..               | .. | .. | .. | 5  |
| Brentwood .. .. .      | ..               | .. | .. | .. | 4¾ |
| Kelvedon Hatch .. .. . | ..               | .. | .. | .. | 7  |
| North Weald .. .. .    | ..               | .. | .. | .. | 6  |

#### Extensions.

3. In addition, the Guildford and Darent Positions will both have entrenchments thrown out on their left flanks, 4 miles and 3¾ miles long respectively, to be manned if required. These are known as the Shere and Darent Valley Extensions.

At Guildford, Dorking and Red Hill there are advanced positions, across part of the front, at a distance from the main positions varying from ½ to 3 miles.



The length of the whole line is approximately 48 miles south of the Thames and 24 miles north of it, total 72 miles.

4. Besides this main entrenched line, there is the out-lying position of Wrotham, which is of considerable importance, as forming a connecting link between the London Defence Positions and the fortress of Chatham, and as covering the bridge which it is proposed to construct at Gravesend, to facilitate communication between the north and south banks of the Thames.

This position which is 4 miles long, is on the slopes above the village of Wrotham; it faces south and is intended to be occupied by one Infantry division. It bars the main road from Maidstone to London, and so hinders a hostile flank movement on Farningham or Dartford.

It is possible that, when the next revision takes place, the main defensive line may be carried along the Wrotham heights to the Chatham fortifications on the Medway, instead of being carried back towards Dartford.

5. Small permanent works, serving the purpose of Mobilization storehouses, for keeping in reserve the necessary tools and centres. ammunition in peace time, and to be used as tactical pivots in war, have been constructed at the following points; they are known as "Mobilization Centres"—

| Position.             | Mobilization Centres. |
|-----------------------|-----------------------|
| Guildford .. .. . {   | Henley Grove.         |
|                       | Pewley Hill.          |
| Dorking.. .. . {      | Denbies.              |
|                       | Boxhill.              |
|                       | Betchworth.           |
| Red Hill .. .. . {    | Reigate.              |
|                       | East Merstham.        |
| Godstone .. .. . {    | Fosterdown.           |
|                       | Woldingham.           |
| Westerham .. .. . {   | Westerham.            |
|                       | Halstead.             |
| Darenth .. .. . {     | Farningham.           |
| North Weald .. .. . { | North Weald.          |

The tools and ammunition for the Laindon Position are stored at Tilbury, those for the Brentwood Position at Warley and those for the Kelvedon Hatch Position at North Weald.



While some of these works, *e.g.*, Pewley Hill, Reigate, and Halstead are well sited to command the country to the front and to co-operate in the defence of the main position, others such as Henley Grove, Boxhill and Betchworth are retired from view and would probably only be of value as reduits, to be held with a view to reoccupying the position should it have been temporarily forced near those points.

6. All the above-mentioned positions were reported upon in 1890 on the assumption that the force available for the occupation of any one of them would be two Army-Corps of the Field Army and a certain number of Volunteer brigades and batteries.

7. For each position a series of 6-in. maps (called Maps "A") have been drawn up showing all the dispositions recommended for the troops, as well as the clearances, trenches, lateral communications and other works, required for the preparation of the position for defence; other maps show the camps, water arrangements, &c. (*see* Section IX.).

8. Arrangements are being prepared by the Inspector-General of Fortifications to carry out all the necessary work by civil labour by the eighth day after the order to commence has been given (*see* Section VI.).

9. Each position has been divided into a number of sections, distinguished by Roman numerals on the Maps "A"; these are principally for the purpose of facilitating the distribution of labour for their preparation, but usually correspond to the disposition of the tactical units as well, owing to the fact that it was originally intended that the troops occupying the position should carry out the works in it. A list of these sections is given in Appendix B.



#### IV.—GENERAL DESCRIPTION OF THE ALLOTMENT OF VOLUNTEERS TO THE LONDON DEFENCE POSITIONS, AND OF THE ARRANGEMENTS THAT HAVE BEEN MADE FOR THEIR CONCENTRATION FOR THE DEFENCE OF ANY PARTICULAR POSITION.

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##### A.—THE ALLOTMENT OF VOLUNTEERS.

1. The detail of Volunteers allotted to the London Allotment Defence Positions, is given, in tabular form, in Appendix C.

The Royal Garrison Artillery (Volunteers), consisting of about 30—4·7-in. and 70—15-pr. 4-gun batteries, have been allotted in the proportion of one brigade division of 4·7-in. guns, and two brigade divisions of 15-prs. to each position.

The Royal Engineers (Volunteers), consisting of about 115 fortress companies, have been allotted with their number of companies in proportion roughly to the number of sections into which the different positions have been divided for preparation.

The Infantry Volunteer brigades, numbering at full establishment about 150,000 men, have been allotted approximately at the rate of 2,000 men per mile (calculating by establishments) to each position along the whole line, as a preliminary measure.

2. The whole of the Volunteers allotted to each position are organized as one division, under a General Officer. Hence there are 10 divisions, beginning with the 22nd (Volunteer) Division at Guildford, and numbering from right to left of the whole line.

3. The Royal Garrison Artillery (Volunteers) besides being allotted to certain positions are, in the Table C, allotted to mobilization centres in the line of positions, whence they will draw part of their ammunition on concentration.

The bulk of the Royal Engineers (Volunteers), as shown in Table C, Appendix C, will be at the disposal of the Inspector-General of Fortifications as long as he requires them for the purpose of preparing the positions.



4. A particular Volunteer brigade in each position, has been allotted to that position on account of its being within more or less easy reach of it, at its peace head-quarters. This is in order that the officers of each of these brigades may be able to obtain, in peace time, a detailed knowledge of the peculiarities of the position to which their brigade is allotted, which will be of great value when the positions come to be manned. The intention is, as will be seen later (Appendix D, Table D, Part II.), to leave each of these brigades permanently in its own position, should the other brigades of its division, be required to concentrate elsewhere, as it is expected that it will be better qualified than a brigade from a distance to occupy it to the best advantage.

5. The above allotment is only to be considered as a preliminary measure for placing the available troops in a convenient position, from which they can be either moved forward in support of the Field Army, or concentrated for the defence of a particular position in the entrenched line.

6. Two General Officers will be appointed, one south and one north of the Thames to command the Volunteer divisions on the two sides. These officers will be styled respectively General Officer Commanding Northern, and General Officer Commanding Southern Thames Defence.

Should concentration for defence on a particular position be ordered, one of these officers will take command of that position on his own side of the Thames, until the arrival, on the spot, of the General Officer Commanding the Field Army.

#### B.—ARRANGEMENTS FOR CONCENTRATION FOR THE DEFENCE OF A PARTICULAR LONDON DEFENCE POSITION.

Concentration  
on one  
position.

7. Should the General Officer Commanding Field Army at any time decide to fall back on one of the London Defence Positions, and for that purpose consider it desirable to concentrate the London defence Volunteers on a particular position, and in its vicinity, the following arrangements have been made for carrying out the movement. On receipt of the order "Concentrate on the position," by either of the General Officers Commanding the Southern or Northern Thames Defence, he will communicate the order to the General Officer Commanding the (Volunteer) division in each London Defence Position on his own side of the River Thames. These General Officers



Commanding (Volunteer) divisions will then proceed as directed in paragraph 11; this will concentrate the requisite number of Volunteer brigades and batteries in the position selected, as shown on Maps A (see Section IX. and Appendix B). Besides this, there will be a complete Volunteer division (less some of its batteries in certain cases), in the position or positions adjoining the one selected, and one Volunteer brigade, with a proportion of guns, in each of the remaining positions.

The remaining Volunteer brigades, not allotted to specific posts in the position, will be held at his disposal in reserve, in rear of the position selected. The remaining Volunteer batteries will be available for reinforcing the batteries already in position, wherever there may be room, or their presence is required.

Some of the (Volunteer) divisions, varying according to the position chosen, will be temporarily broken up for the purposes of this concentration.

8. Table D (Parts I. and II.), Appendix D, shows for each London Defence Position the proposed location of each battery and brigade when the concentration has been carried out, and (Part III.) the places where the reserves will be.

9. The trenches, &c., shown on Maps A, as occupied or available for regular troops, will then be unoccupied; they have been designed in each position, with a view to their occupation by the regular troops of two Army-Corps, which, it has been assumed, will in any case be available for the purpose, should the Field Army fall back on one of these positions.

Neither the extensions at Guildford (Shere) or Darent Valley, nor the Wrotham Position will be occupied in the first instance, unless specially ordered by the General Officer Commanding, Field Army.

10. Should the General Officer Commanding, Field Army, desire to bring the Volunteer divisions occupying positions north of the Thames to the south side, or *vice versa*, special orders to that effect will have to be issued. The bridge, before-mentioned, at Gravesend is intended to facilitate such a movement. It is hoped that time tables for carrying out this movement in part by rail, may be prepared shortly.

11. On the order referred to in paragraph 7, being received from the General Officer Commanding, Field Army, to concentrate on a particular position, each unit or formation



told off in Table D (Appendix D) either to a lettered locality or as in reserve in that position, will proceed thither, by order of the General Officer Commanding the Volunteer division, to which it is originally allotted.

By referring to Appendix B of this handbook, the Officer Commanding unit, or brigade, will discover in which section of the particular position, the lettered locality to which he is to proceed, is included; and by then referring to the Map B, in which that position is shown, he will be able to see the situation of the section in question. The different sections of each position are shown on the Maps B by Roman numerals in red, as described in Section IX. of this book.

Those units or formations, including Royal Engineers (Volunteers), which are not shown in Table D opposite to the name of the position where concentration is to take place, will remain in the positions to which they were originally allotted, which they will occupy with a view to preventing wide turning movements, &c.

The lettered brigades and gun groups in Table D refer to the 6-in. Maps A of the positions. The lettering is from the right of each position.

12. Troops moving from one London Defence Position to another, for purposes of reinforcement or concentration, must move by the lateral communications, marked on Map B (*see* Section IX.), (south of the Thames, U, W, X, Y, and north of the Thames, X, Y, Z). These will have been prepared in rear of the line of positions for that purpose. Those marching from each position must be distributed, as far as possible, over the different roads, the best road (U south of the Thames and X or Y north of it), being selected for the artillery and baggage. They will take their transport and supplies for the day following the day of march with them, also their ammunition, but not their tents, which will remain *in situ*.

NOTE.—Those Royal Garrison Artillery (Volunteers), mentioned in paragraph 1 of this section as being armed with 15-prs., are still mostly armed with 40-pr., 20-pr., and 16-pr. R.M.L. guns. In this handbook, where 15-pr. batteries are spoken of, these batteries, which have not yet been rearmed, are included. Table C, Appendix C, shows which batteries are, or will be, armed with 4.7-inch, and which with 15-pr. guns.

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## V.—DESCRIPTION OF THE EXISTING ARRANGEMENTS FOR THE PREPARATION AND MANNING OF LONDON DEFENCE POSITIONS, AND THE TIME AND MANNER OF THEIR APPLICATION.

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1. The actual circumstances under which the London Defence Positions would be prepared and occupied cannot be laid down beforehand, but as no large force could be thrown on our shores without our having some warning from abroad, it may be taken that they would only be prepared and occupied when it became known that preparations for an invasion were in progress. Time of application.

2. Since, however, our plans for meeting such an attempt might require, in time of war, to be carried out with the least possible delay, the scheme for preparing and occupying the positions for defence has been drawn up on the principle that everything must be complete on the eighth day after the issue of the order to commence.

3. It does not necessarily follow that both the preparation of the positions for defence and their occupation by the troops allotted to them will proceed concurrently. Orders will be issued by Army Head-quarters according to circumstances at the time.

4. Apart, however, from the question of preparing the positions for defence (the procedure of which is described in Section VI.), the following measures will be taken as soon as it is decided that the positions are to be occupied:—

- (a.) The Volunteers allotted to the London Defence Positions, if not already mobilized, will be ordered to mobilize at once. As each brigade or artillery corps reports its component units to be fully mobilized, they will be ordered to proceed to the place of concentration of their brigade or brigade division, where they should arrive at their full establishment. The place of concentration for each brigade is the camping ground told off to it, in rear of the London Defence Position, to which it is allotted, in Table C, Appendix C. The various troops will there be organized into divisions as shown in the same table. Preparations on mobilization and concentration.



(b.) A General Officer with a suitable staff will be appointed to command each (Volunteer) division allotted to a London Defence Position. This officer will proceed to the position where his division concentrates at the earliest possible moment, and will be responsible for everything connected with his division and the position to which it is allotted. His duties in detail are given in paragraph 5. The following are the sites suggested for the head-quarters of (Volunteer) divisions:—

| (Volunteer) Division. | Position.         | Head-quarters.              |
|-----------------------|-------------------|-----------------------------|
| 22nd ..               | Guildford ..      | "White Lion," Guildford.    |
| 23rd..                | Dorking ..        | West Humble.                |
| 24th..                | Red Hill ..       | Merstham House.             |
| 25th..                | Godstone ..       | Woldingham.                 |
| 26th..                | Westerham ..      | Highfield House, Knockholt. |
| 27th..                | Darenth ..        | Green Court, Crockenhill.   |
| 28th..                | Laingdon ..       | Langdon Hill Hall.          |
| 29th..                | Brentwood ..      | Brentwood.                  |
| 30th..                | Kelvedon Hatch .. | Kelvedon Hatch.             |
| 31st..                | North Weald ..    | Theydon Place, Epping.      |

(c.) A General Officer with head-quarters at Croydon will be appointed to command the London Defence Positions south of the Thames, and a General Officer with head-quarters at Warley will be appointed for the same purpose north of the Thames. These officers will be provided with suitable staffs and will be the channel of communication between the General Officer Commanding, Field Army, and the General Officers Commanding Volunteer Divisions in the London Defence Positions.

General  
Officer Com-  
manding  
(Volunteer)  
Division.

5. The duties of a General Officer Commanding a (Volunteer) Division in the London Defence Positions will be as follows:—

(a.) He will proceed at the earliest possible moment with his staff to the London Defence Position to which his division is allotted.



- (b.) He will make himself acquainted with the contents of this book and with the other papers, maps, &c., with which he will be provided at the earliest possible moment, if practicable upon the first indication of hostilities (*see* Section IX.).
- (c.) He will superintend the marking out and establishment of the camps for his division, in accordance with the arrangements shown on the maps provided, and give directions on any point where these are found to be deficient or impracticable. He will decide any difficulties that may arise with the local authorities.
- (d.) He will take command of the component parts\* of his division as they arrive at their places of concentration, and will see that the brigades and divisional troops are properly organized, and that the supply, transport and medical services (*see* Sections VII. and VIII.) are in working order.
- (e.) If a hostile force has actually landed, he will put out a line of outposts and take all necessary measures of security to protect his camps and the parties at work on the defensive preparations of his position.
- (f.) He will inspect the ammunition which his troops have brought with them, and see that the brigade divisions of Royal Garrison Artillery (Volunteers) complete their ammunition, from the mobilization centres, to which they are allotted in Table C, Appendix C.
- (g.) He will employ all available time at his disposal in pressing forward the organization and training of his division, to improve its mobility and efficiency, so that it may be ready, at the earliest possible moment, to take its place alongside of the Field Army proper, should it be required to do so.

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\* Those Fortress Companies, Royal Engineers (Volunteers) shown, in Table C, as at the disposal of the Inspector-General of Fortifications, will, after the Inspector-General of Fortifications has received warning to be ready to begin work (*see* Section VI., paragraph 3), cease to be under the command of the General Officer Commanding (Volunteer) Divisions until the Inspector-General of Fortifications no longer requires them.



(h.) He will give every assistance in his power to the representatives of the Inspector-General of Fortifications, who are carrying out the preparation for defence of the different sections of his position, and will, as far as possible, provide any working parties and the necessary tools that they may apply for. (N.B.—Some of the dispositions, works, &c., shown on Maps A of the positions will have become inapplicable since the last revision, owing to new buildings, young woods, &c., having sprung up. The plans will be revised from time to time, but should this scheme be put into force before being brought up to date, the General Officer Commanding each position will be responsible that the necessary alterations are carried out. For this purpose he must confer with the representatives of the Inspector-General of Fortifications referred to above). After the civilian labour has been withdrawn, he will satisfy himself as to the sufficiency of the defensive preparations, and make such improvements or additions as he may think fit, or as time allows of, with the troops under his command; he should especially try to increase the field of fire by extra clearances, wherever possible, and take and mark on the ground the ranges from the various lines of trenches.

(i.) He will consider and carry out all the necessary preparations, in case his position should be selected for the Field Army to fall back upon, and for the Volunteers from the other positions (see Table D, Appendix D) to concentrate on, for ensuring, as far as possible, the proper supply of ammunition, water, food, &c., for the additional troops, and for enabling them to move, without confusion, into their proper places in the position (see Appendix B for Dispositions in each Position).

(k.) He will make arrangements for the most effective occupation and defence of his position by the troops which will be left behind in it (in accordance with the detail in Appendix D, Table D), in the event of concentration taking



place on one of the *other* positions. In view of such an eventuality he will, as soon as possible, prepare orders ready for issue at a moment's notice to each body of troops belonging to his division, so that it may know exactly to what place and by what road it marches, in order to concentrate, as shown in Table D, on any one of the other positions. In every case he will himself remain or march with whichever part of his division is largest. If ordered to concentrate on a position on the other side of the Thames, he will move there with his whole division in accordance with the instructions he receives. When he leaves his position with part of his division, he will appoint the senior officer remaining to command the troops left behind, leaving him the necessary maps and instructions.

- (l.) He will report daily to the General Officer Commanding the positions on his side of the Thames, as to the progress of the preparation of his position, the arrival of the parts of his division, the progress of its organization and training, and on any difficulties he may have encountered which he has not himself been able to surmount.

6. The maps, reports, &c., which the General Officers Commanding Volunteer Divisions, and others, will have in their possession, are described in Section IX. These reports deal chiefly with matters of detail too bulky for insertion in this book.

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## VI.—ARRANGEMENTS, UNDER THE INSPECTOR-GENERAL OF FORTIFICATIONS, FOR PREPARING THE WORKS IN THE LONDON DEFENCE POSITIONS BY CIVIL LABOUR.

1. The responsibilities which rest upon the Inspector-General of Fortifications, as given in Section I., paragraph 6 (i), are here briefly recapitulated.

The Inspector-General of Fortifications is charged with—

(a.) The execution of all the defences by civil labour, and their completion within 8 days from the receipt of an order to commence work.

(b.) The preparation and maintenance of the necessary plans in time of peace, and the elaboration of all arrangements for obtaining labour, allotting it, and carrying out the work.

Full advantage will be taken of the offers of the great contracting firms to place as many of their men as possible (fully organized in gangs, with their own foremen, overseers, &c.) at the disposal of the military authorities in time of emergency.

(c.) The transport of the labour, tools and plant, supplies, and necessary camp equipage to the places where it is required.

(d.) The housing and feeding of the men.

(e.) The provision of tools and plant.

(f.) The question of the actual payment for the work done.

2. The following organization is being worked up to, by him, and will, it is hoped, be completed before long :—

(a.) The great firms of contractors, who have offered assistance, will be kept informed of the localities where their men will be employed, and for this purpose the approximate number of men available will be periodically ascertained from them and allotment made accordingly.

(b.) Portions of the work which, for any reason, it is not convenient to allot to contractors, will be carried out by labour locally collected, or by the companies of Royal Engineers (Volunteers)



shown as placed at the Inspector-General of Fortifications' disposal, in Table C, Appendix C.

(c.) For the direction of the work two senior officers, probably of Royal Engineers (reserve list) will be detailed in peace time as Chief Engineers—one for each side of the Thames. These officers will keep themselves thoroughly acquainted with the defensive line of which they have charge, with the ground in advance of it, and with all the various arrangements under which the works are to be executed. (.)

In war time they will carry out the work in direct communication with the Inspector-General of Fortifications, and, for facility of access, will be attached to the staffs of the General Officers Commanding Northern and Southern Thames Defence, respectively (Section V., paragraph 4 (c)).

They will be responsible for keeping the Paymaster, Home District, informed of the approximate amount required—

(1.) For payment of contractors, both work and catering ;

(2.) By Commanding Royal Engineers for cash disbursements ;

and will have under them a staff of officers (probably Royal Engineer Reserve and Royal Engineer Volunteers, *vide* paragraph 5) to supervise the execution of the works, and to prepare pay lists.

The officers, probably Royal Engineer (Reserve), selected as Commanding Royal Engineers of Positions will be appointed during peace time, in order that, under their Chief Engineer, they may make themselves acquainted with the ground and with the works they will have charge of.

The pay lists will be as simple as possible. They will not, as a rule, be prepared on measurements, but on the basis of a day's pay to each man employed, since it is assumed that, in defence of his country, every man will work his hardest without other incentive. The rate of pay to be given per diem to different classes of labour will be fixed, as



soon as an emergency arises, by the Inspector-General of Fortifications, and may be, perhaps, double ordinary current rates, including the day of starting to join and one day after leaving the works. The pay earned by contractors' men will be paid to the contractors plus 10 per cent., the latter sum representing the contractors' profit, and relieving the Government from all liability in regard to subsequent claims of any kind whatsoever.

(d.) Contractors' men will bring with them picks and shovels, but a reserve of 10 per cent. of these, and a full supply of all other tools required, both for contractors' men and for labour directly employed, will be kept stored in the various mobilization centres.

(e.) Each position will be in charge of a Commanding Royal Engineer (probably Royal Engineer Reserve), who will have under him one or more battalions of Royal Engineers (Volunteers), the officers of which will constitute his sub-position and section officers, and will under his direction with their non-commissioned officers and sappers—

(1.) Assist the contractors by marking out the works required according to the plans and diagrams which will have been supplied to them, and by explaining the military objects of these works.

(2.) Undertake such work as preparing houses and villages for defence, carrying out demolitions, making cover over trenches in rear of the firing trenches, constructing wire entanglements, turfing and concealing slopes, and other details of a military technical nature.

(f.) A sufficient number of tents and blankets for the use of the navvies will be stored at or near the mobilization centres.

(g.) Arrangements in general terms will be made with certain leading catering firms to supply and issue provisions at the various navvies' camps on the emergency arising. The positions of the camps will be indicated, and the general scheme of supply settled, with a fixed scale per man.



3. As has been already stated in Section II., paragraph 1, it is assumed that no invasion of the United Kingdom can be attempted by any foreign Power before a declaration of war, or until it has found means to obtain for a greater or less period the command of the intervening seas, and it follows that a considerable time—at the least 8 days—will elapse between the warning that the works may have to be carried out, and the actual order to execute them.

During this interval the following preliminary arrangements will be made:—

*On receipt of warning.*

(a.) Notice will be issued to the great contractors to ascertain and communicate to the Inspector-General of Fortifications the actual numbers of men they can furnish for the works already allotted to them, and where these men are at the time employed.

(b.) The Inspector-General of Fortifications' officers in charge of positions will be given their printed instructions, and those for the sectional officers under them, accompanied by the necessary plans and diagrams, and will be ordered to proceed to their posts, and there await the companies of Royal Engineers (Volunteers) allotted to the several positions.

The Inspector-General of Fortifications will, in communication with the Quarter-Master-General, take steps to ensure that orders are issued as to the exact destination of each of these companies, and that arrangements are made for their conveyance thither, when he requires them, and for lodging and feeding them as long as they are under his orders.

When these arrive all preliminary action will be locally taken for—

(1.) Pitching camps for the civil labourers, and obtaining such accommodation as may be available in villages in, and in advance of, the defensive line.

(2.) Selecting parks for the tools and plant required at each camp, and arranging the tools ready for issue to camps at the various mobilization centres.



(3.) Completing arrangements for water supply in camps and for procuring water-carts for supplying the men when at work.

(4.) Inviting and preparing lists of labourers resident in the district who are willing to work if called upon.

(5.) Arranging for cottages or tents for a small hospital in connection with each camp, and for civil medical attendance if possible.

The navvies will only be present on the work for a-week at most, and it is probable that the treatment of accidents only need be considered.

(6.) Any other necessary arrangements, the officers being in constant communication with the Inspector-General of Fortifications at the War Office.

The head-quarters of officers in charge of sections will be at the navy camps for those sections. Each Commanding Royal Engineer of a position will select his own head-quarters with reference to convenience of communication and supervision, and will inform his Chief Engineer and subordinate officers of its location, which will not thereafter be changed.

(c.) Arrangements will be finally completed with the catering firms that have been selected for feeding the men to despatch 7 days' supplies to each camp on receipt of orders.

(d.) Arrangements (in communication with the General Officer Commanding Lines of Communication—*vide* Section VII., paragraph 9) will be made with the railway companies concerned for the transport to the various camps, on receipt of instructions—

(1.) Of the navvies and their tools ;

(2.) Of the supplies required for them ;

and the officers and contractors concerned will be informed of these arrangements.

The navvies should be timed to reach their camps on the third day from the receipt of the order, or, at latest, on the fourth day.

(e.) The Telegraph Department will be informed of any branch lines necessary to place the camps



and head-quarters of Officers Commanding positions in connection with the nearest telegraph station.

*Order to commence work.*

4. The order to commence work will, it is presumed, carry with it authority to enter upon private land and buildings.

On receipt of this order telegrams will be sent—

(a.) To each of the great contractors to despatch their men and tools, in accordance with the arrangements already communicated to them.

(b.) To the catering contractors to send supplies as already arranged.

(c.) To the officers in charge of positions to erect camps for navvies, form parks and draw and lay out tools in them, and commence marking out works, &c.

These important matters their section officers will be able to carry out with the men of their own companies of Royal Engineers (Volunteers). The concentration, therefore, at the positions, of the Royal Engineers (Volunteers) as soon as possible after mobilization is most important.

5. The positions, sections, camps, and number of Royal Engineer Reserve and Volunteer officers and companies required are as follows:—

| required are as follows:—          |           |            |                            |                       |            |
|------------------------------------|-----------|------------|----------------------------|-----------------------|------------|
| Positions.                         | Sections. | Companies. | Officers, R.E.<br>Reserve. | R.E.<br>(Volunteers). |            |
|                                    |           |            |                            | Officers.             | Companies. |
| SOUTH OF THAMES.                   |           |            |                            |                       |            |
| I.—Guildford and Shere ..          | 24        | 7          | 1                          | 35                    | 17         |
| II.—Dorking .. ..                  | 27        | 6          | 1                          | 37                    | 16         |
| III.—Redhill .. ..                 | 25        | 7          | 1                          | 36                    | 12         |
| IV.—Godstone .. ..                 | 17        | 4          | 1                          | 25                    | 9          |
| V.—Westerham .. .. and<br>Wrotham. | 16        | 4          | 1                          | 25                    | 7          |
| VI.—Darenth and Darent<br>Valley.  | 20        | 7          | 1                          | 32                    | 11½        |
| Total ..                           | 129       | 35         | 6                          | 190                   | 72½        |



| Positions.               | Sections. | Companies. | Officers, R.E.<br>Reserve. | R.E.<br>(Volunteers). |            |
|--------------------------|-----------|------------|----------------------------|-----------------------|------------|
|                          |           |            |                            | Officers.             | Companies. |
| NORTH OF THAMES.         |           |            |                            |                       |            |
| VII.—Laindon .. ..       | 9         | 2          | 1                          | 15                    | 6          |
| VIII.—Brentwood .. ..    | 17        | 4          | 1                          | 25                    | 13         |
| IX.—Kelvedon Hatch .. .. | 17        | 5          | 1                          | 26                    | 6          |
| X.—North Weald .. ..     | 11        | 3          | 1                          | 18                    | 6          |
| Total ..                 | 54        | 14         | 4                          | 84                    | 31         |

In each position there will be—

- 1 officer (Royal Engineer Volunteers) in command of each section.
- 1 officer (Royal Engineer Volunteers) to assist the commandants of each camp.
- 1 Field officer (Royal Engineer Volunteers) to supervise each half of the position and any detached portion of a position.
- 1 Commanding Royal Engineer (probably Royal Engineer Reserve) in charge, with at least 1 officer to assist him.

Each of the two Chief Engineers (one north and one south of the Thames) will require at least 4 assistant officers.

The above table shows that  $103\frac{1}{2}$  companies out of those available will be absorbed on the works until they are completed.

This leaves a few companies for subsequent special allotment by the Chief Engineers, should the General Officers Commanding not require them for other purposes.

6. The duties of the officers in charge of sections and positions are detailed in the special instructions which accompany the plans and diagrams of the works to be executed, *vide* paragraph 3 (b).

7. The strengths of the working parties required in the different sections vary considerably, and the men for two



or more sections must often be lodged in one camp. In this case the Commandant of the camp will be the senior section officer.

8. In carrying out the works, those of most importance will be executed first, in order that, if time is not available for the whole, the positions may be found fairly prepared throughout for defence as early as possible after the work has begun.

9. Where the works arranged for by the Inspector-General of Fortifications have become impracticable owing to new houses, &c., having been built or for other reasons, and alterations of more than a minor character have become necessary, his representative on the ground must consult the General Officer Commanding the position as to the alterations to be carried out.

10. Should the officer in charge of a position or section find that he could, with advantage, employ more men on the work than he has at his disposal, he should apply to the General Officer Commanding troops, allotted to his position, for fatigue parties, informing him of the number of men and the nature of tools required.

11. The Commanding Royal Engineer of positions will report progress daily to their Chief Engineers in order that the latter may keep the General Officers Commanding Northern and Southern Thames Defence fully informed on the subject.

12. When the works are completed, the Royal Engineers (Volunteers) Fortress Companies that have been working under the Inspector-General of Fortifications, will receive orders from him to join the (Volunteer) Divisions to which they are allotted in Table C, Appendix C.



## VII.—BASE, LINES OF COMMUNICATION AND ADVANCED DEPÔTS.

General  
remarks.

1. The organization of the lines of communication for home defence, which include those for the London Defence Positions, is based on the following assumptions:—

(1.) That the troops to be supplied are—

North of the Thames (Essex), not more than—

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| 2 Cavalry brigades.              | } | Field Army.                  |
| 3 Imperial Yeomanry<br>brigades. |   |                              |
| 2 Army-Corps.                    |   |                              |
| 4 (Volunteer) divisions.         | } | London Defence<br>Positions. |
| 1 Imperial Yeomanry<br>brigade.  |   |                              |

And south of the Thames, not more than—

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| 2 Cavalry brigades.              | } | Field Army.                  |
| 5 Imperial Yeomanry<br>brigades. |   |                              |
| 3 Army-Corps.                    |   |                              |
| 6 (Volunteer) divisions.         | } | London Defence<br>Positions. |
| 2 Imperial Yeomanry<br>brigades. |   |                              |

(2.) That the operations for the defence of London are not likely to extend beyond say 4 weeks.

(3.) That two sets of conditions must be kept in view, viz.:—

(a.) The situation, at the outset, of the Field Army and the London defence troops, when distributed by divisions, &c., to their strategic places of concentration, both north and south of the Thames, before invasion has actually taken place.

(b.) Their situation when concentrated—as far as possible—either north or south of the Thames, to meet the invader, after he has landed and when his line of advance has become approximately known.

(4.) That the (Volunteer) divisions, allotted to the London Defence Positions, will naturally be less mobile than the Field Army proper.



(5.) That the supply of food, ammunition, and possibly remounts, will be the most important duty of the lines of communication staffs; of ordnance and other reserve stores, comparatively little should be required, for such a short period

2. The control of the lines of communication and the duty of supplying the Army in the field will be vested in a General Officer Commanding Lines of Communication, who will have under his orders a General Officer and staff for each line of communication. He will arrange as to the number of lines of communication required and the area within which, and the troops for which each should work. The Quarter-Master-General at Head-quarters, working with his own office staff, will probably be appointed General Officer Commanding Lines of Communication.

General  
Officer Com-  
manding  
Lines of Com-  
munication.

3. London will be the base of operations and the main Base of operations. depôts of supplies and ammunition will be established close to—

- |   |   |
|---|---|
| (1.) Nine Elms Goods Station.   | } For the force south<br>of the Thames. |
| (2.) Supply Dépôt, Woolwich.  |   |
| (3.) Bishopsgate Goods Station, for the force north<br>of the Thames. |   |

These places are in connection with the advanced depôts and with one another (*see* map at end).

The offices and quarters of the Head-quarters Staff of the Lines of Communication will be in easy communication with the base depôts, probably at the War Office. Officers' quarters, &c., for the dépôt personnel, will be located at or near each of them.

4. The existing establishments connected with the supply of—

- (1.) Clothing.
- (2.) Stationery.
- (3.) Medical stores.
- (4.) Veterinary stores,

will probably remain as at present, as these establishments are in or near London, and comparatively small quantities of these stores are likely to be required except at the base itself.

The Main Ordnance Dépôt will remain at Woolwich.



5. For each line of communication there will be formed—

(a.) A general dépôt for personnel (including infantry).

(b.) A remount dépôt.

The various barracks in London will probably be available for these.

#### Hospitals.

6. A scheme is being worked out under the Director-General, Army Medical Service, for the establishment of base hospitals for 20,000 sick and wounded in public and other existing buildings in London.

7. Supplies will in the first instance need to be provided for two different sets of troops.

(a.) The Field Army, at its strategic places of concentration;

(b.) The Volunteers in the London Defence Positions.

#### Advanced depôts.

8. Advanced depôts have been selected so as to supply both forces. The following railway stations have been examined, and found suitable for the purpose, as far as the London Defence Positions are concerned. They are all close to main roads (*see map at end*).

#### *South of the Thames.*

*Guildford* (S.W.R. and S.E. & C.R.) for Volunteers in Guildford Position.

*Leatherhead* (S.W.R. and L.B. & S.C.R.) for Volunteers in Dorking Position.

*Purley Junction* (L.B. & S.C.R.) for Volunteers in Red Hill Position.

*Caterham* (S.E. & C.R.) for Volunteers in Godstone Position.

*Upper Warlingham* (L.B. & S.C.R.) for part of the Volunteers in Westerham Position.

*Orpington* (S.E. & C.R.) for Volunteers in Westerham Position.

*Swanley Junction* (S.E. & C.R.) for Volunteers in Darent Position.

#### *North of the Thames.*

*Upminster* (L.T. & S.R.) for Volunteers in Laindon Position and part of those in Brentwood Position.



*Brentwood* (G.E.R.) for Volunteers in Brentwood and Kelvedon Hatch Positions.

*Epping* (G.E.R.) for Volunteers in North Weald Position and part of those in Kelvedon Hatch Position.

These will probably be changed as events develop.

9. The working of the railways up to the advanced depôts, inclusive, will, as far as possible, remain in the hands of their ordinary civilian staffs, under the General Officer Commanding Lines of Communication, exercised through the Director of Railways and his assistants.

Their management in front of the advanced depôts will also be left largely to the civilian staffs, working under the Director of Railways until the actual zone of operations is reached, when it will pass, but only when absolutely necessary, into the hands of the military authorities.

10. Similarly all arrangements for supply in front of the advanced depôts will be entirely under military control and supervision, although the actual personnel of the transport must be largely drawn from civilian sources.

11. The reserve food supplies to be held at the base and advanced depôts, will be—

At each base depôt .. .. 16 days.

At each advanced depôt .. .. 6 „

12. Supply parks will be formed carrying three days' supply for all troops in front of the advanced depôts, thus giving a total of 25 days' supplies in hand behind the troops.

13. Suitable staffs will be told off to the General Officer Commanding Lines of Communication, to each General Officer Commanding a line of communication, to the base depôt commandants and to the advanced depôt commandants, &c.



# VIII.—AMMUNITION, CAMPS, TRANSPORT, SUPPLY, TELEGRAPHS, MEDICAL AND VETERINARY ARRANGEMENTS.

## Ammunition.

1. Volunteer Infantry will bring with them to their places of concentration, 300 rounds of Service small-arm ammunition per man. Of this, 200 rounds is stored in the district in which they mobilize, and will be drawn there by them; 100 rounds is in possession of units and will be carried by the men.

The Royal Garrison Artillery (Volunteers) will bring with them the ammunition they hold on corps charge, and will draw, as soon as possible after they arrive at their places of concentration, the ammunition stored for each battery at the mobilization centre (in the London Defence Positions), to which it is allotted in Table C, Appendix C. The 4.7-in. batteries will receive by rail at their places of concentration, the ammunition which is stored for them at Woolwich.

The distribution of Service ammunition, which amounts to 500 rounds *per gun*, will be as follows in peace :—

|                            | 4.7-in. | 15-pr. * |
|----------------------------|---------|----------|
| On corps charge.. ..       | 48      | 148      |
| In mobilization centres .. | 300     | 352      |
| At Woolwich .. ..          | 152     | ..       |
| Total per gun ..           | 500     | 500      |

Replenishment of ammunition will be carried out from the advanced depôts.

## Camps, supply, and transport.

2. On mobilization, each Volunteer unit and brigade or divisional staff, allotted to the London Defence Positions, will obtain under regimental arrangements, or be issued with, transport on a fixed scale. Camp equipment will as a general rule be drawn by units in the districts in which they mobilize.

Under orders of the General Officers Commanding Volunteer Infantry brigades and of the Officers Commanding Royal Garrison Artillery (Volunteer) Corps, each unit,

\* See Note on page 20.



including brigade staffs and Army Service-Corps companies, will send an advanced party, with sufficient transport to carry the camp equipment of the unit to its place of concentration. This advanced party will take with it the camp equipment of the unit and its own rations and forage for three days, and will prepare the camp allotted to the unit to which it belongs.

Divisional staffs will send similar advanced parties.

These parties will probably arrive on the ground on the 4th day of mobilization.

3. The advanced parties will be followed, probably on the 7th day of mobilization, by the units to which they belong, who will supply themselves with food for the journey and the day of arrival, and will, besides, bring with them 2 days' rations for all ranks and 2 days' forage for horses, together with all equipment which has not already been sent.

When the units have arrived on the ground, it will be the duty of brigade and divisional commanders to organize the necessary supply columns, to work between the advanced depôts and the troops, from the surplus transport of units and from the brigade Army Service Corps companies, whose scale of transport has been calculated to permit of this.

4. Supplies of food and forage will be carried out, as far as possible by rail, to the advanced depôts.

5. A camping ground, which is also its place of concentration, is being selected for each unit, including staffs, in rear of the London Defence Position to which it is allotted in Table C, Appendix C. The position of these camp sites will be shown on the camp maps, which are distributed on mobilization, (*see* Section IX.), and which will give the requisite information as regards water supply, communications, &c.

6. Water companies will be required to lay the necessary Water. pipes and taps for conveying water to the various camps, and householders will be requested to keep their cisterns and tanks full and to keep their pumps in a condition for constant work. The payment of expenses will in every case be guaranteed.

Maps and memoranda will be drawn up for this purpose for issue to water companies and householders, and certain arrangements will be come to between the former and the



Inspector-General of Fortifications, with a view to expediting the work when the emergency arises.

Medical.

7. Volunteer Brigade Bearer Companies with their ambulances will accompany their brigades to the places of concentration and will, with the medical officers belonging to units, form nuclei for the necessary field hospitals, &c.

It is expected that important assistance will be obtained from the medical profession in London and suburbs.

The cases that can be moved will be taken to the base hospitals.

Sites for field hospitals and dressing stations are being selected in rear of each position.

Veterinary.

8. Under present arrangements the additional veterinary officers, farriers and shoeing-smiths required to attend to the horses and other animals belonging to the batteries Royal Garrison Artillery (Volunteers) and other transport of the (Volunteer) divisions, will be provided from civilian sources.



# IX.—DESCRIPTION OF THE MAPS, BOOKS, REPORTS, &c., CONNECTED WITH THE SUBJECT, AND THEIR DISTRIBUTION.

(The distribution of copies of this Handbook, and of Maps "A" and "B," in peace and on mobilization, is given in Appendix A. The other maps and documents, referred to in this Section, are kept in the Mobilization Division at the War Office.)

1. *Map (in pocket) at the end of this handbook.*—This is a General map. small scale (4 m. to 1 in.) map to give the reader a general idea of the situation of the London Defence Positions and the extent of each position.

It also shows the position of the mobilization centres, advanced depôts, base depôts and the railways and principal roads running through or up to the positions.

2. *Maps A.*—These consist of a set of 6-in. Ordnance Maps A. maps (printed on linen for use in the field), of each of the London Defence Positions, including the position of Wrotham. There are usually four maps in each set.

Each set of these maps shows the details of the particular position, with the proposed disposition of the troops told off to hold it in force, after they have been concentrated there, but prior to the development of the enemy's attack.

(N.B.—The present edition of these maps was brought out when fewer troops were available for occupation than is now the case; should the General Officer Commanding find he has more troops available when he comes to occupy the position than are shown on the maps, he will arrange for their disposition either as extra reserves or for the strengthening or prolongation of the original position.)

Hostile artillery positions are shown *in black*. (These have not yet been revised for positions south of the Thames; consequently, in clear weather, good hostile artillery positions will be found to exist in certain cases at ranges which were considered too long when these maps were drawn up).

The following are shown *in red*:—

- (a.) All the field works, gun emplacements, trenches, clearances, demolitions, entanglements, abattis, and other preparations for defence which the Inspector-General of Fortifications is preparing



to carry out (as described in Section VI.), on receiving the order to do so.

- (b.) The position of each section as told off for the preparation of the position, shown by Roman numerals (a list of these sections and their localities is given in Appendix B).
- (c.) The communications most likely to be required in rear of the positions, which will, where necessary, also be prepared under the orders of the Inspector-General of Fortifications. Those for use by Infantry only are shown by broken, and those suitable for all arms, by continuous lines.
- (d.) The allotment of the different defences to the troops, and the position of the reserves; defences being shown differently according as they are intended for occupation by regulars or by Volunteers, by Infantry, machine guns, or Artillery, or only *prepared* for occupation. A clear explanation of the conventional signs used is given at the bottom of the map.

For purposes of occupation, certain sections are allotted to regular troops, usually those in the advanced positions and on the flanks. The trenches in these sections are marked by battalions, brigades or divisions thus—

“1 Battalion,” “1 Brigade,” “1 Division.”

The trenches allotted to Volunteer Infantry brigades for occupation generally in the main firing line of the positions, usually correspond to the sections, into which each position has been divided for preparation; they are lettered thus: “B Volunteer Brigade (3500),” “C Volunteer Brigade (4000),” &c., beginning from the right of the position. Where a detachment from a brigade is required for a special purpose such as the occupation of a redoubt, it is marked thus: “300 men, D Volunteer Brigade,” &c.

In the case of Artillery occupation, each position has a number of gun groups, lettered from the right of the position thus: “Group A,” “Group B,” and so on; these groups are allotted to regular or Volunteer batteries or both.

Emplacements for regular batteries (*i.e.*, those in which 6 gun emplacements for each battery are prepared) are marked thus: “——Field Batteries,” &c.



N.B.—Certain emplacements are merely prepared for use in case of need and are not intended to be occupied in the first instance. They are marked "Prepared for Field Guns."

Those for Volunteer batteries, in which only 4 emplacements per battery are prepared, are marked thus: "— 4·7-in. batteries," "— 15-pr. batteries," according as they are prepared for 4·7-in. guns or 15-prs.

This lettering is for use with Table D, Appendix D (see Section IV.).

3. *Maps B* are for use with Table D, Appendix D.

Maps B.

These are 1-in. Ordnance maps (on linen for use in the field) designed to give, in a form that can be carried by any officer, sufficient information from the Maps A and the Lateral Communication Maps, to enable them to carry out the concentration described in Section IV., for which Table B has been drawn up, while giving as little valuable information as possible to the enemy, should they fall into his hands.

They are also for use as general maps of the area in which the London Defence Positions lie.

They are in sets of 3, two south of, and one north of, the Thames.

They have printed on them in red:—

(a.) Roman numerals showing the position of the several sections in each position, as a guide to the troops that may be ordered to occupy those sections; the numbering being generally from right to left of the position. Appendix B gives the number and nature of the troops for which each section is prepared.

(b.) The name of each position, printed approximately opposite the centre of each position.

(c.) The mobilization centres.

(d.) The selected and prepared lines of lateral communication, 4 south of the Thames and 3 north of it; each line being denoted by a different letter.

(e.) The Gravesend bridge.

4. *Range maps*.—These are 6-in. maps for the General Range maps. Officer Commanding (Volunteer) Divisions (only one, in manuscript, for each position), showing ranges from each group of guns to the enemy's probable artillery positions, and to other conspicuous points in front of and on the



flanks of the position. Those south of the Thames have not yet been revised. Those north of the Thames were revised in 1901.

5. *Reports on hostile artillery positions north of the Thames.*—These refer to the revision of the range maps above mentioned. There is only one copy for each position (4 in manuscript). They describe the artillery positions that could now be occupied by the enemy and suggest certain changes in the disposition of guns as shown in Maps A.

Preliminary reports.

6. *Preliminary reports on London Defence Positions.*—

(a.) These are manuscript reports for the use of General Officer Commanding (Volunteer) Divisions, one for each position south of the Thames and one for Essex, drawn up by the 1890 Committee, explaining the strategical and tactical points considered, in the selection of the defences, as shown on Maps A of the positions.

(b.) In addition, there is one report on the defence of each of the following gaps, viz., the Guildford gap, Dorking gap, Godstone gap, and Far-ingham, by one Infantry brigade and three batteries of Field Artillery, against a sudden attack by a comparatively small force, before our concentration was completed.

(c.) There is also a report with a map (1-inch) discussing possible positions on the Dorking—Weybridge line, all of which are however considered very bad ones.

Camp maps.

7. *Camp maps.*—These will consist of, for each position:—

(a.) One 1-in. map for General Officer Commanding position, showing in red (manuscript) sites for the camps of divisional and brigade headquarters, and of battalions, batteries, and companies Royal Engineers, allotted to the position, also camps for departmental units. The camps are numbered on the map, with references in the margin.

(b.) One 1-in. map for the officer commanding the unit, for each of the numbered camps referred to in (a), showing the position of the camp and the best road to the advanced dépôt.



On the back of this map is a section of 6-in. map showing the exact position of the camp and of its water supply, latrines, &c. Also instructions for watering, washing, cooking and other arrangements. The map of a brigade head-quarters camp will also show the position of all the other camps belonging to the brigade.

8. *Maps of and reports on lateral communications* (in manuscript).—There is one 1-in. map and report for the lateral communications south of the Thames, for the General Officer Commanding Northern Thames Defence, and the same north of the Thames, for the General Officer Commanding Southern Thames Defence. The contents of the maps are embodied in Maps B (1-in.) The reports describe the situation and condition of the lines selected. Lateral communications maps.

9. *Maps of and reports on advanced depôts*.—These consist of a report and map of each of the railway stations selected as advanced depôts (in manuscript), for the use of the officer who will have to organize the depôt. They describe the station, stores and offices available, and give other information that that officer will require. Advanced depôts.

10. *Maps of and reports on detraining stations*.—These are reports for the use of Station Commandants, similar to those mentioned in paragraph 9, on certain other stations, which might be used in connection with the movement of troops by rail within the line of positions. Stations.



## APPENDICES.

APPENDIX A, TABLE A.—Number of handbooks for the London Defence Positions, which are held in peace, and issued by C. 2 on Mobilization for Home Defence, and of Maps A and Maps B, which are held in peace, and issued on Mobilization by the Intelligence Division, War Office (*see* Section IX.).

| Officers by whom held or to whom issued.   | Handbook for the London Defence positions. |                         | Maps A (complete sets). |                         | Maps B (3 sheets). |                         |
|--|--|-------------------------|-------------------------|-------------------------|--------------------|-------------------------|
|  | Held in peace.                             | Issued on mobilization. | Held in peace.          | Issued on mobilization. | Held in peace.     | Issued on mobilization. |
| C.-in-C. or G.O.C. Field Army ... ..       | 1*   | 1                       | 1*                      | 1                       | 1*                 | 1                       |
| Military Secretary ... ..                  | 1  | ...                     | ...                     | ...                     | 1                  | ...                     |
| D.G. Military Intelligence ... ..          | 5*   | ...                     | 5*                      | ...                     | 5*                 | ...                     |
| Adjutant-General ... ..                    | 1  | ...                     | ...                     | ...                     | 1                  | ...                     |
| Q.M.G. or G.O.C. Lines of Communication.   | 1  | 1                       | ...                     | 1                       | 1                  | 1                       |
| D.G. of Ordnance ... ..                    | 1  | ...                     | ...                     | ...                     | 1                  | ...                     |
| I.G. of Fortifications and Staff ... ..    | 25   | ...                     | 10                      | ...                     | 25                 | ...                     |
| D.G. Army Medical Service ... ..           | 1  | ...                     | ...                     | ...                     | 1                  | ...                     |
| G.O.C. an Army-Corps ... ..                | 1  | 1                       | ...                     | 1                       | 1                  | 1                       |
| G.O.C. a division or district... ..        | 1  | 1                       | ...                     | 1                       | 1                  | 1                       |
| G.O.C. an Infantry brigade, Field Army ... | ...  | 6                       | ...                     | ...                     | ...                | 6                       |
| O.C. Divisional Artillery, Field Army ...  | ...  | 4                       | ...                     | ...                     | ...                | 4                       |
| Staff of the Field Army ... ..             | ...  | 25                      | ...                     | 5                       | ...                | 25                      |
| „ an Army-Corps ... ..                     | ...  | 22                      | ...                     | 2                       | ...                | 22                      |
| „ an Infantry division ... ..              | ...  | 6                       | ...                     | ...                     | ...                | 6                       |
| Base Commandant ... ..                     | ...  | 2                       | ...                     | ...                     | ...                | 2                       |
| Advanced Depot Commandant ... ..           | ...  | 2                       | ...                     | ...                     | ...                | 2                       |
| Station Commandant... ..                   | ...  | 1                       | ...                     | ...                     | ...                | 1                       |
| Lines of Communication Staff ... ..        | ...  | 25                      | ...                     | 4                       | ...                | 25                      |
| London Defence Positions—                  |  |                         |                         |                         |                    |                         |
| G.O.C. Southern Thames Defence and Staff.  | ...  | 10                      | ...                     | 10†                     | ...                | 10                      |
| G.O.C. Northern Thames Defence and Staff.  | ...  | 10                      | ...                     | 10†                     | ...                | 10                      |

\* Held by the Intelligence Division, War Office (I. 3 (b)).  
† Maps of positions on his own side of the Thames only.



## Appendix A, Table A—continued.

| Officers by whom held or to whom issued.  | Handbook for the London Defence positions. |                         | Maps A (complete sets). |                         | Maps B (3 sheets). |                         |
|---|--|-------------------------|-------------------------|-------------------------|--------------------|-------------------------|
|   | Held in peace.                             | Issued on mobilization. | Held in peace.          | Issued on mobilization. | Held in peace.     | Issued on mobilization. |
| <b>London Defence Positions—continued.</b>  |  |                         |                         |                         |                    |                         |
| G.O.C. a (Volunteer) Division and Staff.  | ...  | 6                       | ... {                   | 1<br>6*                 | } ...              | 10                      |
| G.O.C. a Volunteer Infantry brigade ...   | ...  | 3                       | ...                     | 1*                      | ...                | 3                       |
| O.C. a Brigade Division of R.G.A. (Volunteers).                                       | ...  | 2                       | ...                     | 1*                      | ...                | 2                       |
| O.C. a battery R.G.A. (Volunteers) ...  | ...  | 1                       | ...                     | ...                     | ...                | 1                       |
| O.C. a Volunteer battalion ...  | ...  | 2                       | ...                     | ...                     | ...                | 10                      |
| O.C. R.E. in a position ...   | ...  | 1                       | ...                     | 1*                      | ...                | 1                       |
| O.C. R.E. Fortress Company ...  | ...  | 1                       | ...                     | ...                     | ...                | 1                       |
| Spare copies in Mobilization Division, War Office.                                    | 26†  | ...                     | 4†                      | ...                     | 10†                | ...                     |
| Spare copies for issue to Field Army, in the London Defence positions, when required. | ...  | 500†                    | ...                     | 100†                    | ...                | 500†                    |

\* Maps of his own Position only.

† Held by the Mobilization Division, War Office.

‡ Those for each position, in charge of the General Officer Commanding, Volunteer Division, allotted to that position, until required for distribution to the Field Army, should it retire thereon.











Appendix B., Table B.—continued.

| Position.                         | Number of section. | Locality.    | Artillery.                     |                                       |                              |                             | Infantry. |             |           |                             |                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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|                                   |                    |              | Letter of gun groups on Map A. | Number of field batteries (Regulars). | Volunteers.                  |                             | Brigades. | Battalions. | Brigades. | Detachment (number of men). | Letter of brigade on Map A. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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|                                   |                    |              |                                |                                       | Number of 4-7-in. batteries. | Number of 15-pr. batteries. |           |             |           |                             |                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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| Dorking.<br><br>Advanced Position | I.                 | Milton Heath | ..                             | ..                                    | ..                           | ..                          | ..        | ..          | ..        | ..                          | ..                          | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 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Appendix B, Table B—continued.

| Position. | No of section. | Locality.                        | Artillery.                    |                                    |                           |                          | Infantry. |             |           |                           |                             |
|-----------|----------------|----------------------------------|-------------------------------|------------------------------------|---------------------------|--------------------------|-----------|-------------|-----------|---------------------------|-----------------------------|
|           |                |                                  | Letter of gun group on Map A. | No. of field batteries (Regulars). | Volunteers.               |                          | Brigades. | Battalions. | Brigades. | Detachment. (No. of men). | Letter of brigade on Map A. |
|           |                |                                  |                               |                                    | No. of 4-7-in. batteries. | No. of 15-pr. batteries. |           |             |           |                           |                             |
| Godstone. | I.             | White Hill ...                   | A & B                         | ... 6                              | 4                         | 4                        | ...       | ...         | 1         | ...                       | B                           |
|           | II.            | Gravelly Hill ...                | C                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | C                           |
|           | III.           | Foster Down ...                  | D                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | D                           |
|           | IV.            | Marden Castle ...                | E                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | E                           |
|           | V.             | Flinthall Farm ...               | F                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | F                           |
|           | VI.            | Tandridge Hill ...               | G                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | G                           |
|           | VII.           | Railway Tunnel ...               | H                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | H                           |
|           | VIII.          | Oxted Chalk Pit ...              | I                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | I                           |
|           | IX.            | Titsey Plantation ...            | J                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | J                           |
|           | X.             | Titsey Park (West) ...           | K                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | K                           |
|           | XI.            | Titsey (East)† ...               | L                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | L                           |
|           | XII.           | Winderhill† ...                  | M                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | M                           |
|           | XIII.          | Stubb's Copse† ...               | N                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | N                           |
|           | XIV.           | Stubb's Copse Redoubt ...        | O                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | O                           |
|           | XV.            | Flinthall Farm Redoubt ...       | P                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | P                           |
|           | XVI.           | Botley Hill Redoubt ...          | Q                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | Q                           |
|           | XVII.          | Cold Harbour Beeches Redoubt ... | R                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | R                           |
|           | XVIII.         | Communications (right) ...       | S                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | S                           |
|           | XIX.           | " (left) ...                     | T                             | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | T                           |
|           |                |                                  | Caterham ...                  | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | White Hill (L.) ...           | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Fosterdown (III.) ...         | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Marden Park ...               | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Tandridge Hill (VI.) ...      | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Oxted Chalk Pit (VIII.) ...   | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Botley Hill (XVI.) ...        | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | Tatfield ...                  | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           |                |                                  | (Annotated but not shown) ... | ...                                | ...                       | ...                      | ...       | ...         | 1         | ...                       | ...                         |
|           | Reserve        |                                  | ...                           | ...                                | ...                       | ...                      | ...       | 1           | ...       | ...                       |                             |























Appendix B, Table B—continued.

| Position.       | Number of section. | Locality.                  | Artillery.                    |                                    |                         |                          |           | Infantry.   |           |                          |                             |
|-----------------|--------------------|----------------------------|-------------------------------|------------------------------------|-------------------------|--------------------------|-----------|-------------|-----------|--------------------------|-----------------------------|
|                 |                    |                            | Letter of Run group on Map A. | No. of field batteries (Regulars). | Volunteers.             |                          | Brigades. | Battalions. | Brigades. | Detachment (No. of men). | Letter of battery on Map A. |
|                 |                    |                            |                               |                                    | No. of 4-in. batteries. | No. of 15-pr. batteries. |           |             |           |                          |                             |
| KELVEDON HATCH. | I.                 | Fitzwalters ...            | A                             | ...                                | ...                     | 3                        | ...       | 1 {         | ...       | ...                      | B                           |
|                 | II.                | Bannister's Farm ...       | B                             | ...                                | ...                     | ...                      | ...       | ...         | 1         | ...                      | B                           |
|                 | III.               | America Farm Redoubt ...   | C & D                         | ...                                | ...                     | ...                      | ...       | ...         | ...       | 450                      | B                           |
|                 | IV.                | Doddinghurst ...           | E                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | C                           |
|                 | V.                 | Blackmoor Mill ...         | F                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | D                           |
|                 | VI.                | Hookend Retrenchment†      | G                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | E                           |
|                 | VII.               | Stondon Massey, East ...   | H                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | VIII.              | " Church ...               | I                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | IX.                | Marden Ash ...             | J                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | X.                 | Chipping Ongar ...         | L                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XI.                | " Redoubt...               | M                             | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XII.               | Want's Farm ...            | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XIII.              | Shelley ...                | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XIV.               | Dowe's House ...           | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XV.                | Communications (right) ... | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XVI.               | " (left) ...               | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | XVII.              | Fitzwalters (I) ...        | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | Reserve            | Doddinghurst ...           | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | "                  | Hookend (VI.) ...          | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | "                  | Kelvedon Hatch ...         | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | "                  | Chipping Ongar ...         | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 | "                  | (Available, but not shown) | ...                           | ...                                | ...                     | ...                      | ...       | ...         | ...       | ...                      | F                           |
|                 |                    | Total                      | ...                           | 62†                                | 5                       | 11                       | 12        | 2           | 6         | ...                      | ...                         |







SECRET.

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APPENDICES C AND D.

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## 2



| (Vol.) Division. | Position to which allotted. | Volunteer Infantry Brigades.   | Less Battalions allotted to |                          | Royal Engineers (Volunteers).*                                | Less Cos. allotted to Garrisons. | Brigade Divisions.   | Number of batteries.   |                                | Mobilization centres.†                          |
|------------------|-----------------------------|--|-----------------------------|--------------------------|---|----------------------------------|--|------------------------|--------------------------------|---|
|                  |                             |  | Field army.                 | Garrisons.               |   |                                  |  | 4·7-in.                | 15-pr.                         |   |
|                  |                             |  |                             |                          |   |                                  |  |                        |                                |   |
| 22nd             | Guildford                   | Argyll and Sutherland<br>Scottish Border†<br>Seaforth and Cameron<br>West Surrey† ...      | 3<br>...<br>...<br>...      | 2<br>...<br>...<br>1     | 1st Gloucesters<br>2nd Gloucesters                            | ...<br>...<br>...<br>...         | 3rd Lancashire<br>1st Shropshire and Staffordshire<br>1st Monmouthshire  | 3<br>...<br>...<br>... | 4 (a)<br>3 (a)<br>3 (a)<br>... | Pewley Hill.<br>" "<br>Henley Grove.            |
| 23rd             | Dorking                     | Home Counties<br>Lancashire Fusiliers...<br>North-East Lancs. ...<br>South Lancashire† ... | ...<br>...<br>...<br>1      | ...<br>...<br>...<br>1   | 1st Lancashires<br>3rd Lancashires                            | ...<br>...<br>...<br>...         | { 3rd Lancashire<br>2nd West Riding of Yorkshire<br>(Heckmondwike Battery).<br>4th West Riding of Yorkshire<br>1st Northumberland (Newcastle batteries). | 2<br>1<br>...<br>...   | ...<br>...<br>4 (a)<br>3 (a)   | Denbies.<br>Boxhill.<br>Betchworth.<br>Denbies. |
| 24th             | Red Hill                    | East Surrey ...<br>Sherwood Foresters ...<br>Staffordshire ...                             | ...<br>...<br>...           | ...<br>...<br>...        | 1st Devon and Somerset<br>1st Lanarkshires<br>2nd Lancashires | 5<br>6<br>...                    | 1st Newcastle-on-Tyne<br>1st Lanarkshire<br>1st " "  | 3<br>...<br>...<br>... | 3 (a)<br>3 (a)<br>3 (a)<br>... | Reigate.<br>East Merstham<br>" "<br>" "         |
| 25th             | Godstone                    | Highland Lt. Inf. I<br>1st London† ...<br>2nd Lothian† ...<br>Scottish Rifle†...           | 2<br>3<br>1<br>1            | ...<br>...<br>...<br>... | 1st Middlesex   | ...<br>...<br>...<br>...         | { 1st Fifeshire<br>1st Aberdeenshire<br>1st Midlothian<br>1st Lanarkshire  | 1<br>2<br>...<br>...   | ...<br>...<br>3 (a)<br>4 (a)   | Woldingham.<br>" "<br>Fosterdown.<br>" "        |
| 26th             | Westerham                   | Black Watch†<br>Gordon†<br>3rd London† ...   | 1<br>1<br>2                 | ...<br>...<br>...        | 1st Yorkshires  | ...<br>...<br>...                | 5th Lancashire<br>4th " "<br>5th " "   | 3<br>...<br>...<br>... | ...<br>4 (a)<br>3 (a)<br>...   | Hadstead.<br>Westerham.                         |







# APPENDIX D.

TABLE D, PART I.—Table to show the gun groups, in each London Defence position, to which each battery, Royal Garrison Artillery (Volunteers), is allotted, on the order being issued to concentrate for defence on that position. (Table B, Appendix B, shows the section of the position, in which each gun group is situated; Map B shows the position of that section.)

| (Volunteer)<br>Division. | Name of unit.   | Number of<br>batteries. |        | Mobilization<br>centre in which<br>ammunition is<br>stored. | Group to which the batteries are allotted upon general concentra-<br>tion for defence of the position named (see note below). |            |          |                      |               |                   |          |            |                 |              |     |
|--------------------------|---|-------------------------|--------|---|---|------------|----------|----------------------|---------------|-------------------|----------|------------|-----------------|--------------|-----|
|                          |   | 4·7-inch.               | 15-pr. |   | Guildford.  | Dorking.   | Redhill. | Godstone.            | Westerham.    | Darenth.          | Laindon. | Brentwood. | Kelvedon Hatch. | North Weald. |     |
|                          |   |                         |        |   |   |            |          |                      |               |                   |          |            |                 |              |     |
| 22nd<br>(Guildford)      | 3rd Lancashire...   | 3                       | ...    | Pewley Hill   | M   | A          | L        | A                    | B             | A                 | ...      | ...        | ...             | ...          | ... |
|                          | 1st Salop and Staffordshire                               | ...                     | 4      | "   | G   | { ... }    | 2H<br>2I | { B }                | A             | E                 | ...      | ...        | ...             | ...          | ... |
|                          | 1st Monmouthshire   | ...                     | 3      | Henley Grove  | 2 F<br>1 D  | { ... }    | ...      | ...                  | ...           | ...               | ...      | ...        | ...             | ...          | ... |
| 23rd<br>(Dorking)        | { 3rd Lancashire<br>2nd West Riding of Yorkshire<br>4th " | 2<br>1<br>...           | ...    | Denbies<br>Boxhill  | ...   | E<br>D     | M<br>... | H<br>A<br>2 D<br>2 F | B<br>H<br>C   | Res.<br>Res.<br>F | ...      | ...        | ...             | ...          | ... |
|                          | "   | ...                     | 4      | Betchworth  | ...   | J & K      | { ... }  | ...                  | ...           | ...               | ...      | ...        | ...             | ...          | ... |
|                          | 1st Northumberland  | ...                     | 3      | Denbies   | ...   | 2 F<br>1 H | { ... }  | ...                  | ...           | ...               | ...      | ...        | ...             | ...          | ... |
| 24th<br>(Redhill)        | 1st Newcastle-on-Tyne                                     | 3                       | ...    | Reigate   | B   | I A        | L        | I H                  | B             | B                 | ...      | ...        | ...             | ...          | ... |
|                          | 1st Lancashire  | ...                     | 3      | E. Mersham  | 2 C<br>1 D  | { ... }    | I        | ...                  | 1 E<br>2 Res. | Res.              | ...      | ...        | ...             | ...          | ... |
|                          | 1st "   | ...                     | 3      | "   | ...   | { ... }    | I        | ...                  | ...           | ...               | ...      | ...        | ...             | ...          | ... |















TABLE D, PART III.—To show the places to which the Volunteer batteries and Infantry brigades, shown as in reserve in Table D, Parts I. and II., will proceed, on the order being issued, to concentrate for the defence of a particular position (references to Maps B).

| Position on which concentration is ordered. | (Volunteer) Division to which batteries or brigades belong. | Position to which originally allotted and from which it proceeds. | Number of batteries and brigades proceeding to the position named (from Table D, Parts I. and II.). |        |           | Places to which the reserve batteries and brigades proceed, and where they remain in reserve, unless otherwise ordered, for the defence of the position named. |
|---|---|---|---|--------|-----------|--|
|   |   |   | Batteries.  |        | Brigades. |  |
|   |   |   | 4·7-in.   | 15-pr. |           |  |
| Guildford                                   | 26th  | Westerham   | ...   | ...    | 2         | Guildford (West). }  |
| Dorking ..                                  | 27th  | Darenth   | 1   | 3      | 2         | Merrow Downs. }  |
| Redhill ..                                  | 27th  | Darenth   | ...   | 2      | 2         | Juniper Hall. }  |
| Godstone                                    | 27th  | Darenth   | ...   | 1      | 2         | Upper Gatton Park. }   |
|   | 22nd  | Guildford   | ...   | ...    | 3         | Fosterdown. }  |
|   | 27th  | Darenth   | ...   | 2      | ...       | Tatsfield. }   |
|   | 22nd  | Guildford   | ...   | ...    | 3         | Tatsfield }  |
| Westerham                                   | 24th  | Redhill ..  | ...   | 2      | ...       | Halstead. }  |
|   | 22nd  | Guildford   | ...   | ...    | 3         | Halstead. }  |
| Darenth ...                                 | 23rd  | Dorking   | 3   | ...    | 2         | Lullingstone Park. }   |
|   | 24th  | Redhill   | ...   | ...    | ...       | Farningham Wood. }   |
|   | 25th  | Godstone  | ...   | 3      | ...       |  |
|   | 28th  | Laindon   | ...   | 2      | ...       |  |
| Laindon ...                                 | 30th  | Kelvedon Hatch  | 3   | 3      | ...       | Laindon Station. }   |
|   | 31st  | North Weald   | 2   | 4      | 1         | Dunton Waylett. }  |
| Brentwood                                   | 29th  | Brentwood   | ...   | 3      | 2         | Hutton Hall. }   |
|   | 31st  | North Weald   | 2   | 4      | ...       |  |
| Kelvedon Hatch                              | 28th  | Laindon   | 3   | 4      | ...       | Kelvedon Hatch. }  |
|   | 30th  | Kelvedon Hatch  | 3   | 4      | 1         | Chipping Ongar. }  |
|   | 28th  | Laindon   | 3   | 4      | ...       | North Weald Mobilization Centre. }   |
| North Weald ...                             | 29th  | Brentwood   | 3   | 4      | ...       | Epping. }  |
|   | 31st  | North Weald   | 3   | ...    | ...       | „ }  |

N.B.—These reserves are not shown on the present edition of Maps A, but each place mentioned below is shown as occupied by other reserves on Maps A.



A37 (SUR)

A37 (KEN)

A37 (ESS)







