

AWM4

**Australian Imperial Force unit war diaries,
1914-18 War**

Tunnelling & Survey

Item number: 16/4/27 Part 3

Title: 3rd Australian Tunnelling Company

April 1918



AWM4-16/4/27PART3

(Copy) 356

C.R.E., Corps Troops No. 786.

1918

O.C., 3rd Australian (T) Coy.

Reference your Casualty Wire No.A.M.1/315 dated 8/4/18.
Please report on the circumstances under which 13 Other Ranks
of your Unit were gassed.
An early reply is requested.

(Sgd) S.H.Morgan,
Capt. & Adjutant,
R.E., 1 Corps Troops.

9/4/18.

C.R.E., Corps Troops.

H.Q., 1 Corps No.A.70/8.

It has been reported that out of a total of 86 recent Gas casualties in 1 Corps, 76 were cases of Corps Troops, and that this number was largely made up of Australian and American personnel employed with 1 Corps Troops.

Will you please ensure that all ranks of the Tunnelling Companies employed under you on 1 Corps Front are thoroughly acquainted with the use of the Box Respirator, and that the Corps instructions in connection therewith are invariably complied with.

(Sgd) N.G.Anderson,
Brig.-General,
D.A. & Q.M.G., 1 Corps.

1 Corps H.Q.,
9/4/18.

Copy to Camp Commandant.

O.C., 176th Tunnelling Coy., R.E.
3rd (Aust.) " "

C.R.E., Corps Troops No.787.

Please see above. - I presume you have 1 Corps Instructions No.1 of 21/1/18. Kindly let me know the routine you practice in your Coy., for Box Respirator drill and inspection.

(Sgd) S.H.Morgan,
Capt. & Adjutant,
for C.R.E., Corps Troops.

10/4/18.

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LIST OF MEN ADMITTED TO HOSPITAL GASSED.

~~124~~

Sect.	Rank	NAME	Date.	Sect.	Rank	Name	Date.
No. 2	Spr	BOUGHER J.	8/4/18	99th L.C.	Pte	LAWRENCE W.J.	8/4/18
	"	FLETCHER W.G.	"	"	"	LEWIS S.	"
	"	PAPCHUCK D.	"	"	"	LOVEWELL E.	"
	"	CARNES J.N.	"	"	"	LEARY J.	"
	"	COE J P.	"	"	"	PARKINSON J.	"
	Sgt	HARRIS J.	"	"	"	MORRIS W.J.	"
	Spr	SHEEHAN C.	"	"	"	MACEFIELD W.	9/4/18
	"	LEWIS T.H.	"	"	"	LEE C.C.	"
	"	JONES W.R.	"	"	"	LARKIN W.A.	"
	"	RODIONOFF N.	"	"	"	LOVEJOY J.	"
	"	WALTON J.	"	"	"	LUBBOCK R.	"
	"	ANDREWS T.W.	"	"	"	LAKE W.	"
	"	CHANDLER A.S.	"	"	Cpl	AVIS A.	"
	"	COUSINS J.W.	"	"	Pte	MAWHOOD A.J.	11/4/18
	"	DALY J.	9/4/18	"	"	McGARRY J.	"
	"	ROBINSON J.	"				
	"	REYNOLDS W.J.	"	30th L.C.	"	BROGAN J.	10/4/18
	"	BROADBENT M.	"	"	"	HOWELL E.J.	"
	"	COYNE M.	"	"	"	LINLEY J.	"
	"	LIVES A.	"	"	"	TOMLINSON B B	"
	"	RICKETTS W.S.	"				
	"	PRITCHARD R.C.	"	5th Dorsets			
	"	McGRATH C J.	"		Pte	DUKE A.	"
	"	CASEY J.	"		"	PELLOW W.	"
	"	HUNTER J.	"		"	SHORT E.W.	"
	"	HERMAN W.J.	"		"	SNOOKS H.	"
	"	GARDNER G.	"				
	"	HINDE J.	"	7th South	"	ROBERTS J.T.	"
	"	KENNEY J.H.	"	Staffs.			
	"	TURNER J.	"				
	"	MORRIS C.	"				
	Cpl	FOGARTY J.	"				
	Spr	LAHEY P.	"				
	"	REYNOLDS T.M.	11/4/18				
No. 3.	"	KLINE D.	10/4/18				
	"	ZEEB K.	"				
	"	HICKEY M.J.	"				
	"	MAIN A.J.	11/4/18				
No. 4.	"	MYTTON E.	9/4/18				
	"	McWILLIAM G.W.	11/4/18				
	Sgt	FORSYTH L.M.	"				
	Spr	MORTON J.	"				

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A.M. 1/975.

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~~125~~

C.R.E.,
1 Corps Troops/

Reference your Nos. 786 & 787 attached.

1st Corps Instructions No. 1 of 31/1/18 have been received. Officers and other ranks are trained accordingly.

Box Respirator drill and inspection has been carried out regularly twice weekly for each O.R., in this unit.

Casualties of the 8th, 9th, 10th & 11th were mostly very slightly gassed and I am personally very doubtful as to whether, except in a few cases, they should have been admitted to hospital.

The men were working in VERNELLES when the enemy gas shelling of that area took place. Many were not affected as they no doubt complied strictly with their training.

I consider that it is only through gross carelessness on the part of the O.R's themselves that they have become casualties and that they should be charged accordingly.

Alma Anderson.

Major,

O.C., 3rd Australian Tunnelling Company.

11/4/18.

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promptly got them to Moore St &
then sent them by 33rd Coy
P.A.M.C. to the Brewery Dressing
Station, Vermelles.

I do not consider that these
men were guilty of carelessness
in the use of their gas respirators

The four men of No 4 Section
were working at "K" Incline, on
surface, and undoubtedly
gassed by the same shell as
the men of No 1 Section as the
wind was in their direction.

Corporal Rose was with them & on
recognising the presence of gas he
very promptly removed this
party - with gas masks on - to the
main tunnel.

These men were not immediately
affected but became so about
one hour later & were removed
to Brewery Dressing Station as
stretcher cases.

The man of No 2 Section - Sapper
Morse was carrying timber between
H & K Inclines at the time of the

Vermelles

27.5.18.

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~~Lt P. H.~~

~~Adjutant~~

O.C. No 3rd ~~and 4th~~ Australian Tunnelling Coy.

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The following is
a statement of the passing of nine
men of ~~3rd Australian Tunnelling Coy. No 23~~ No 23
Labour Coy this morning.

About 9 am enemy shells landed
in the vicinity of Clarke's Keep &
Jermyn St.

These shells were chiefly H.E.,
about one in four being gas shell.
The four men of No 1 Section
were working at "H" Incline near
Jermyn St. One enemy shell
(H.E.) demolished a wall within
twenty (20) feet of them whilst
a gas shell burst almost im-
mediately within twelve feet of
the incline.

I was at "H" Incline within three
minutes of the burst of the shell
& found these men in a dangerous
condition. Sergt. Yearidge & myself.

APPENDIX

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Vernelles

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27.5.18

Cpl Rose states: - I was near the party at N Incline (within 20 yards) & recognised gas was about. I returned to N Incline & found the men with their gas masks on. I ordered them down the Tunnels which we gained through "E" Entrance. Time about 9 a.m. About one hour elapsed before these men became badly affected. These men made prompt use of their gas masks.

W. H. 657 Cpl Rose

3rd Australian Tunnelling Company

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bombardment & promptly got his mask on.

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He was not affected until one hour later.

Pte Smith C. of 23rd Labor Coy was engaged on surface at Artillery Incline & was the last man to go in behind the gas curtain at the Incline.

I consider that the gassing of these men was in the case of the men of No 7 Section, unavoidable as the shell burst practically on them

That this shell accounted for the others though they used their masks

Also that the mixture of gas for such a brief period probably deceived most of the parties.

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R. H. 657 Cpl Rose

No 2 Section
3rd Australian Tunnelling Company

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Vermelles. ⁵⁸

27. 5. 18.

Sergeant Yeardye states: -

I was with the officer in charge of No 2 section Vermelles & promptly proceeded to ~~the~~ Incline recognizing gas was very strong in this vicinity. At the Incline I found a wall had been demolished by one shell & the men working this Incline in a dazed condition. The men were removed to Moore St & then to Brewery Dressing Station.

I consider the gas shell burst very near to them.

Time would be about 9 am.

No 1214. A. B. Yeardye, Sgt
No 2 Section

~~3 A.T.C.~~

3rd Australian Tunnelling
Company.

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Appendix 59

54th. Brigade No. M. 517.

SECRET.

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To:-
3 Battalions.
3rd. Aust. Tunnelling Coy.

11th. Division (for information).

The instructions issued in this office M. 178 of 3rd. March are cancelled and the following issued in their place:-

- (a) A picquet of 2 N.C.O.'s and 6 men will be detailed to man each traverse in case of attack.
- (b) The keys of the exploders for the charges in ST. ELIE and ST. GEORGE'S Tunnels will be kept in the Right Company Headquarters of the Right Battalion (G.12.d.15.15.) in DUBLEY Tunnel.
The keys of the exploders for the charge in MANNING Tunnel will be kept at Left. Battalion Support Company Headquarters (G.11.a.3.0.) in the dug-out connected with MANNING Tunnel.
The keys must be under the charge of the Company Commander at whose Headquarters they are kept.
- (c) 1 N.C.O. of the Tunnelling Company will be responsible that the leads and charges in each Tunnel are in good order. In case of attack he will report to the Company Headquarters where the keys are kept, and will fire the charge on receipt of orders from the Battalion Commander through the Company Commander concerned.
- (d) No charges will be blown without orders from Divisional Headquarters.
- (e) A copy of these instructions will be kept at both Company Headquarters concerned and will always be handed over on relief. A receipt for them will be given to C.O. outgoing Company and will be forwarded through Battalion Headquarters to Brigade Headquarters.

Please acknowledge by wire. ✓

14th. April 1918. *F. J. Turner.* Captain,
Brigade Major, 54th. Infantry Brigade.

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Appendix 60

SECRET.

I Corps No. S/463.

DEMOLITION OF AMMUNITION DUMPS.

*Major A. Sanderson,
Off. 3rd Australian (T) Coy., A.E.*

Owing to the Canadian Corps having taken over the area formerly occupied by 46th Division, para.4 of I Corps Secret Memo. No, S/463, dated 8/4/18, is cancelled is so far as it relates to:

- (a) "Heavy Dump. "TERRACE" Siding - R.15.c."
- (b) "C" Army Dump - R. 7.c."
- (c) "COUFIGNY Bomb Store - Q.12.a.2.8."

M. Cudde

A I Corps H.Q.
18/4/18.

Brig.-General,
D.A. & Q.M.G., I Corps.

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SECRET & CONFIDENTIAL.

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HEADQUARTERS,
I CORPS.

No.

Date

I Corps No. S/463.

Major A. Sanderson, MC.
Comd. 3rd Australian (T) Coy.

1. In order to ensure that in the event of a withdrawal on any front no useful ammunition will fall into the hands of the enemy, it is necessary to take certain preliminary measures.

2. Such measures must be looked upon as purely precautionary, and must be carried out with great secrecy in order to prevent any risk of alarm or of any one imagining that a withdrawal is even possible.

3. The following are the precautionary measures to be taken:

(i) Officers i/c. Corps Ammunition Dumps will forthwith (a) take on charge sufficient petrol (say 30 gallons) to start the necessary fires; (b) prepare sufficient ignition charges to fire all cartridge, light T.M. and boxed ammunition stores (say 2 per store); (c) prepare detonators, fitted with safety fuze for each heavy T.M. store (say 2 per store); (d) collect all the above into an emergency store - plainly marked as such - and prepare full instructions for carrying out the destruction pasted on a board and hung up in this emergency store; (e) reconnoitre the Army Dump to which he will withdraw in case of emergency.

The emergency store will be kept locked - the key i/c. of the Officer in charge of the Dump.

(ii) As soon as it is established that a strong attack has developed on the Corps front, or on any front likely to affect the I Corps, a priority wire "Take precautions ammunition" will be sent to each O. i/c. Ammunition Dump, and also to the O.C. Tunnelling Company detailed to assist. On receipt of this order the O.C. Tunnelling Companies will despatch 1 officer and 15 miners to each Dump as stated below. This officer will immediately make himself acquainted with all the arrangements which have been made.

(iii) Should the hostile attack progress to considerable depth a priority wire will be sent to each Dump, "Close Down." On receipt of this the O. i/c. Ammunition Dumps will withdraw their personnel as laid down in para. 4. The Tunnelling officer will start making all arrangements for firing the Dump as far as it is possible without interfering with the drawing of ammunition by any units who may require it.

(iv) If time permits, definite orders will be sent for the destruction of each Dump, but failing the receipt of such orders the Tunnelling officer told off to each Dump will act on his own initiative, after consulting with any Artillery and Infantry Commander on the spot. No Dump must be destroyed until the last possible moment, and only when it is inevitable that it will fall into the enemy's hands. After carrying out the destruction he will withdraw his men to the Dump in rear as specified below, and carry out the same procedure as above.

P. T. O.

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4. The following Table gives the chain of possible withdrawal:

AMMUNITION DUMP.	Action to be taken by O.C. on withdrawal	Tunnelling Coy. to provide demolition party.	Action to be taken by T.Coy. on withdrawal.
Corps Heavy & Boxed Dump O.M. E.24.d. & E.30.a. & c.	Proceed to HESDIGNEUL Army Dump and take over.	170th (T) Coy., R.E.	Reconnoitre HESDIGNEUL Army Dump.
Heavy Dump. "TERRACE" siding. R.15.c.	Rejoin Unit under orders of O.C., Siege Pk.	3rd Australian (T) Company.	Proceed to "C" Army Dump. R.7.c.
"C" Army Dump. R.7.c.	As directed by First Army.	3rd Australian (T) Company.	Proceed to COUIGNY Bomb Store. Q.12.a.2.8.
COUIGNY Bomb Store Q.12.a.2.8.	Rejoin unit under orders of O.C., Corps M.T Column.	3rd Australian (T) Company.	Proceed to Field Supply Depot, BARLIN.

5. Instructions regarding demolition of ammunition dumps are attached.

6. All officers to whom this memo. is addressed are held personally responsible that its subject is regarded with the utmost secrecy and in no circumstances is it to be discussed with anyone.

W. Anderson

I Corps H.Q.
8/4/18.

Brig.-General,
D.A. & Q.M.G., I Corps.

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HEADQUARTERS,
I CORPS.

No.

Date.....

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SECRET & CONFIDENTIAL.

(Issued with I Corps No. S/463).

INSTRUCTIONS FOR THE GUIDANCE OF OFFICERS EMPLOYED ON DESTRUCTION OF AMMUNITION DUMPS OR STORES.

1. BOXED AMMUNITION.-

(a) Each stack of boxed ammunition should have an entry made to the centre of it, sufficient to allow for a pile of propellant explosive to be put into it, which should be ignited by means of a firing charge consisting of a small bag of cordite or gun powder with a length of safety fuze firmly fitted into it. These firing charges should be prepared beforehand.

The woodwork of boxes should be broken up, as much as time will permit, in order to encourage combustion.

The stack should be soaked as much as possible in petrol, paraffin, or tar, whichever is available.

(b) The howitzer cartridges should be ripped open and contents used to make the firing charges, and as much as possible to form the piles in the boxed stacks.

2. BOMB STORES.-

(a) S.A.A. should be fired by means of petrol, boxes being broken up beforehand as far as possible, in order to assist combustion.

(b) HEAVY T.M. AMMUNITION, 6" & 9.45". Each stack to be prepared for detonation by means of electric detonators, a length of wire, and F.S. Exploders.

Failing these stores being available, each stack to be prepared for detonation by means of a length of safety fuze fitted into the detonator of its own exploder. Bombs to be prepared should be from the bottom of each stack. All lengths of safety fuze to be fired at one time and none lighted till all are prepared. Twenty feet lengths should be used as a minimum.

(c) LIGHT T.M. AMMUNITION & GRENADES. As for Boxed Ammunition.

(d) FIREWORKS.- By ignition in the usual way, assisted by petrol, paraffin or tar.

3. SMALLER AMMUNITION STORES.- In forward areas should be dealt with on above lines as far as possible.

4. CHEMICAL SHELLS.- As for Fireworks, but fired last.

5. CARTRIDGE STORES ON HEAVY DUMPS.- The contents of the fuze and tube stores should be thrown into the cartridge stores and the cartridges ignited by means of a firing charge.

NOTE.- The above instructions are for guidance only and are NOT to be carried out until notice is received by the Officer i/c. Dump to "Close Down" - (vide para.3 (iii) of I Corps No. S/463).

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HEADQUARTERS,
I CORPS.

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No.

Date

SECRET. & CONFIDENTIAL.

(Issued with I Corps No. S/4657A)

INSTRUCTIONS FOR THE GUIDANCE OF OFFICERS EMPLOYED ON DESTRUCTION
OF I CORPS AMMUNITION DUMP.

Dumps will be destroyed in the following order and by the following methods:-

(a) CARTRIDGE STORES ON HEAVY DUMP.-

(1) The contents of the fuze and tube stores should be thrown into the cartridge stores.

(2) The cartridge stores ignited by a train of propellant explosive taken from the cartridges themselves. This train should be laid thick and pass from one store to the next, finally being led away to safety distance (say 50 yards) before being lit by a portfire.

(b) FIREWORKS (MISCELLANEOUS) SMOKE & INCENDIARY.-

Fired by any ordinary ignition.

(c) CHEMICAL.-

As for (b), but fired last.

(d) LIGHT T.M. & GRENADES.-

These stacks should be fired by means of a cordite train led to the centre of each stack, as near as possible and as thick as time will permit. The train should be led from stack to stack, and a distance away of 60 feet from the dump. Boxes should be broken up to assist combustion. Cordite required to be obtained from cartridges of Heavy T.M.

(e) HEAVY T.M.-

Each stack to be prepared for detonation by means of electric detonators, a length of wire, and F.S. Exploders.

Failing these stores being available, each stack to be prepared for detonation by means of a length of safety fuze fitted into the detonator of its own exploder. Bombs to be prepared should be from the bottom of each stack. All lengths of safety fuze to be fired at one time, and none lighted till all are prepared. 20-ft. lengths should be used as a minimum.

(f) BOXED - 13, 18-PDR. & 4.5" HOW. ALSO S.A.A.-

(1) Each stack of boxed ammunition should have a entry made to the centre of it, sufficient to allow for a pile of propellant explosive to be put into it, and a train leading therein from outside.

The woodwork of boxes should be broken up as much as time will permit, in order to encourage combustion.

The stack should be soaked as much as possible in petrol, paraffin or tar, whichever is available.

(2) The Howitzer cartridges should be ripped open and contents used to make the train and as far as possible to form the piles in the boxed stacks.

(3) Piles having been made in each stack, a train should be laid from stack to stack and into the piles, the train being subsequently led away from the dump, in a direction with the prevailing wind.

The train should be laid as thick as time will allow, and should be fired by means of a portfire.

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HEADQUARTERS,
I CORPS.

No.

Date

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SECRET & CONFIDENTIAL.

(Issued with I Corps No. S/463).

INSTRUCTIONS FOR THE GUIDANCE OF OFFICERS EMPLOYED ON DESTRUCTION OF AMMUNITION DUMPS OR STORES.

1. R.F.A. AMMUNITION REFILLING POINTS.-

(a) Each stack of boxed ammunition should have an entry made to the centre of it, sufficient to allow for a pile of propellant explosive to be put into it, and a train leading therein from outside.

The woodwork of boxes should be broken up as much as time will permit, in order to encourage combustion.

The stack should be soaked as much as possible in petrol, paraffin or tar, whichever is available.

(b) The Howitzer cartridges should be ripped open and contents used to make the train, and as much as possible to form the piles in the boxed stacks.

(c) Piles having been made in each stack, a train should be laid from stack to stack and into the piles, the train being subsequently led away from the dump, in a direction with the prevailing wind.

The train should be laid as thick as time will allow, and should be fired by means of a portfire.

2. BOMB STORES.-

(a) S.A.A. if in stock, to be fired by means of petrol, boxes being broken up beforehand as far as possible, in order to assist combustion.

(b) HEAVY T.M., 6" & 9.45". Each stack to be prepared for detonation by means of electric detonators, a length of wire, and F.S. Exploders.

Failing these stores being available, each stack to be prepared for detonation by means of a length of safety fuze fitted into the detonator of its own exploder. Bombs to be prepared should be from the bottom of each stack. All lengths of safety fuze to be fired at one time, and none lighted till all are prepared. 20-ft. lengths should be used as a minimum.

(c) LIGHT T.M. These stacks should be fired by means of a cordite train led to the centre of each stack, as near as possible and as thick as time will permit. The train should be led from stack to stack, and a distance away of 60 feet from the dump. Boxes should be broken up to assist combustion. Cordite required to be obtained from cartridges of Heavy T.M.

(d) FIREWORKS. By ignition in the usual way, assisted by petrol, paraffin or tar.

3. SMALLER AMMUNITION STORES in forward areas should be dealt with on above lines, as far as possible.

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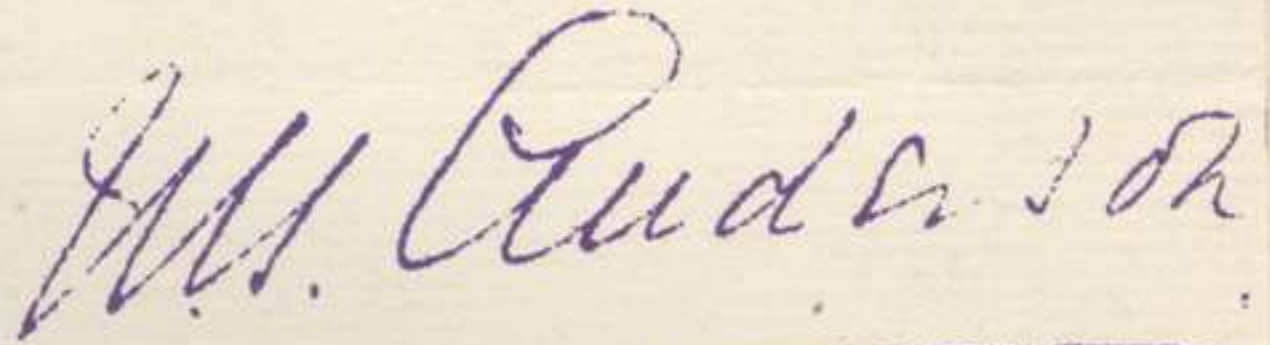
SECRET & CONFIDENTIAL.I Corps No. S/463. ~~123~~DEMOLITION OF AMMUNITION DUMPS.-

Major A. Sanderson.

OC. 3rd Aus (T) Coy

Owing to the formation of new dumps, para.4 of I Corps No. S/463, dated 8/4/18, is cancelled and the attached substituted.

The O.C., "A" Corps H.T. Column will make the necessary arrangements for emergency stores at each new dump, as provided for in para. 3(i) of S/463, dated 8/4/18.



Brig.-General,

D.A. & Q.M.G., I Corps.

I Corps H.Q.

15/4/18.

A

4. The following Table gives the chain of possible withdrawal:

AMMUNITION DUMP.	Action to be taken by O.C. on withdrawal.	Tunnelling Coy. to provide demolition party.	Action to be taken by T.Coy on withdrawal
(i) Corps Heavy & Boxed Dump O.M. E.24.d. & E.30.a. & c.	Proceed to HESDIGNEUL Army Dump and take over.	170th (T) Coy., R.E.	Reconnoitre HESDIGNEUL Army Dump.
(ii) MARLES Dump along road through G.29.c. & d.	Rejoin unit under orders of O.C., "A" Corps M.T. Column.	3rd Australian (T) Company.	Proceed to RICOUART Dump along MARLES-CALONNE RICOUART road I.5.c. & d.
(iii) RICOUART Dump along MARLES - CALONNE RICOUART road. I.5.c. & d.	-do-	3rd Australian (T) Company.	Proceed to BRUAY Dump. J.14.c. & d. Siege No.5.
(iv) BRUAY Dump J.14.c. & d. Siege No.5.	Rejoin unit under orders of O.C., Corps M.T. Col.	3rd Australian (T) Company.	Rejoin Unit.

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APPENDIX 61

1st. Canadian Division.
12th March, 1918.

GENERAL STAFF.
1st
BAN G. 4-65 DIVISION.

1st. Canadian Inf. Brigade,
 3rd. Canadian Inf. Brigade,
 Maj. J. C. de BALINHARD,
 1st. Canadian Inf. Brigade,)
 1st. Canadian Divl. Engineers.) For
 3rd. Australian Tunn. Coy.) information.

In continuation of 1st. Canadian Division G. 4-65 of 11th March, 1918 :-

1. An Officer will be always detailed who will be in charge of the Infantry Working Party allotted to each shift on the HYTHE Tunnel. This officer will remain actually on duty with his party throughout their shift, maintaining constant supervision of the men, and will be responsible that the work is carried on in accordance with the instructions of the 3rd. Australian Tunn. Coy. Officer in charge of the work.
2. Major J. C. de BALINHARD, has been appointed Divisional Officer in charge of the administration of the HYTHE Tunnel. He will live at the forward Headquarters of the 3rd. Australian Tunnelling Coy. near the HYTHE Tunnel, and will at once report to Divisional H. Q. any contravention of the instructions set out in para. 1 above.
3. The officer in charge of the 1st. Canadian Inf. Brigade working party will be responsible that the names of the Officers in charge of each shift are forwarded to Major J. C. de BALINHARD, not less than 12 hours in advance.
4. Please acknowledge.

H. H. Matthews
 Lieut-Colonel.
 General Staff.
 1st. Canadian Division.

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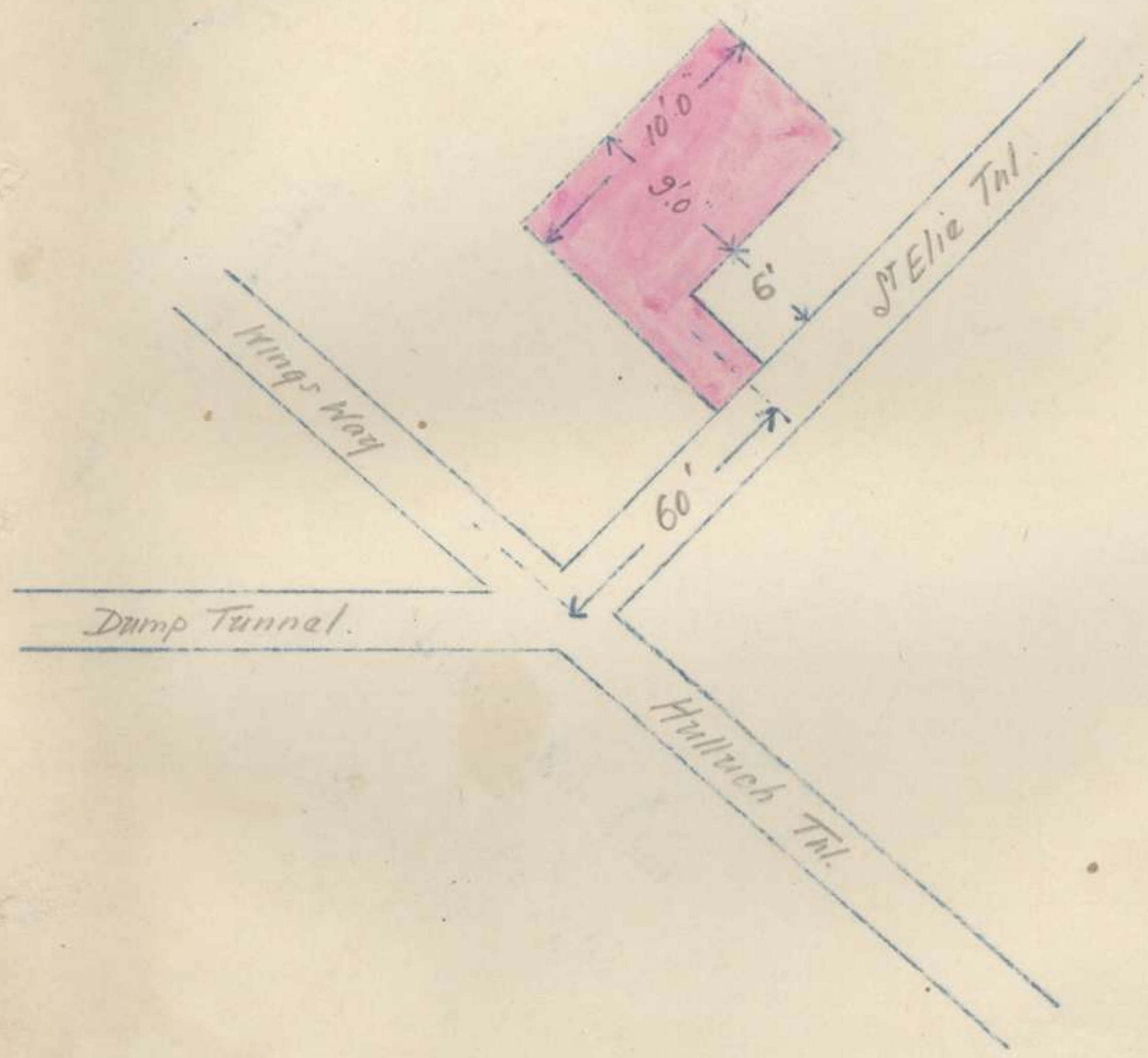
3rd Australian Tunnelling Coy.

Cookhouse off St Elie Tunnel.

Reference G 18 a. 64. 72.

Completed April 1918.

Sketch "A"



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3rd Aust. Tnlq. Coy

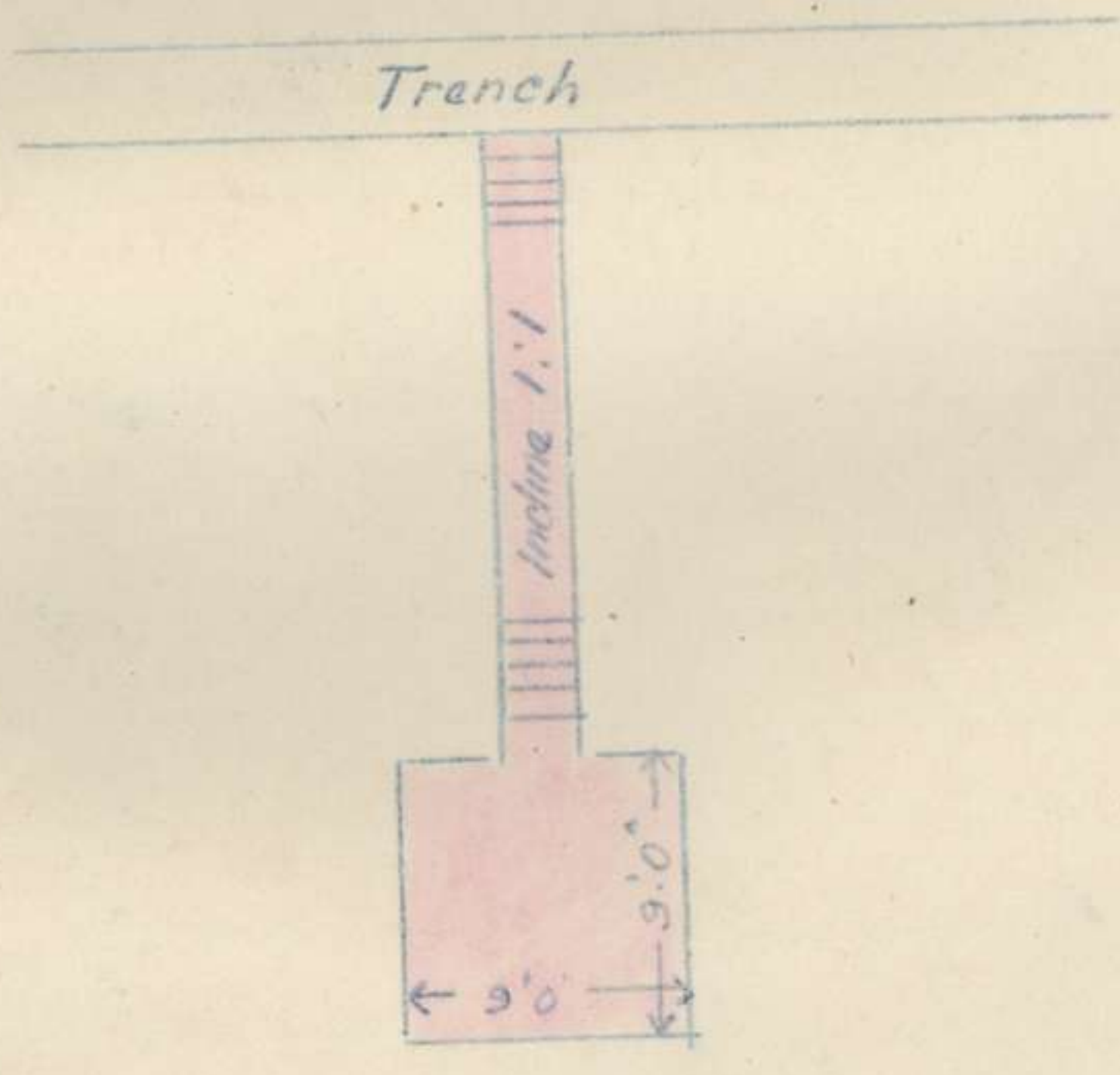
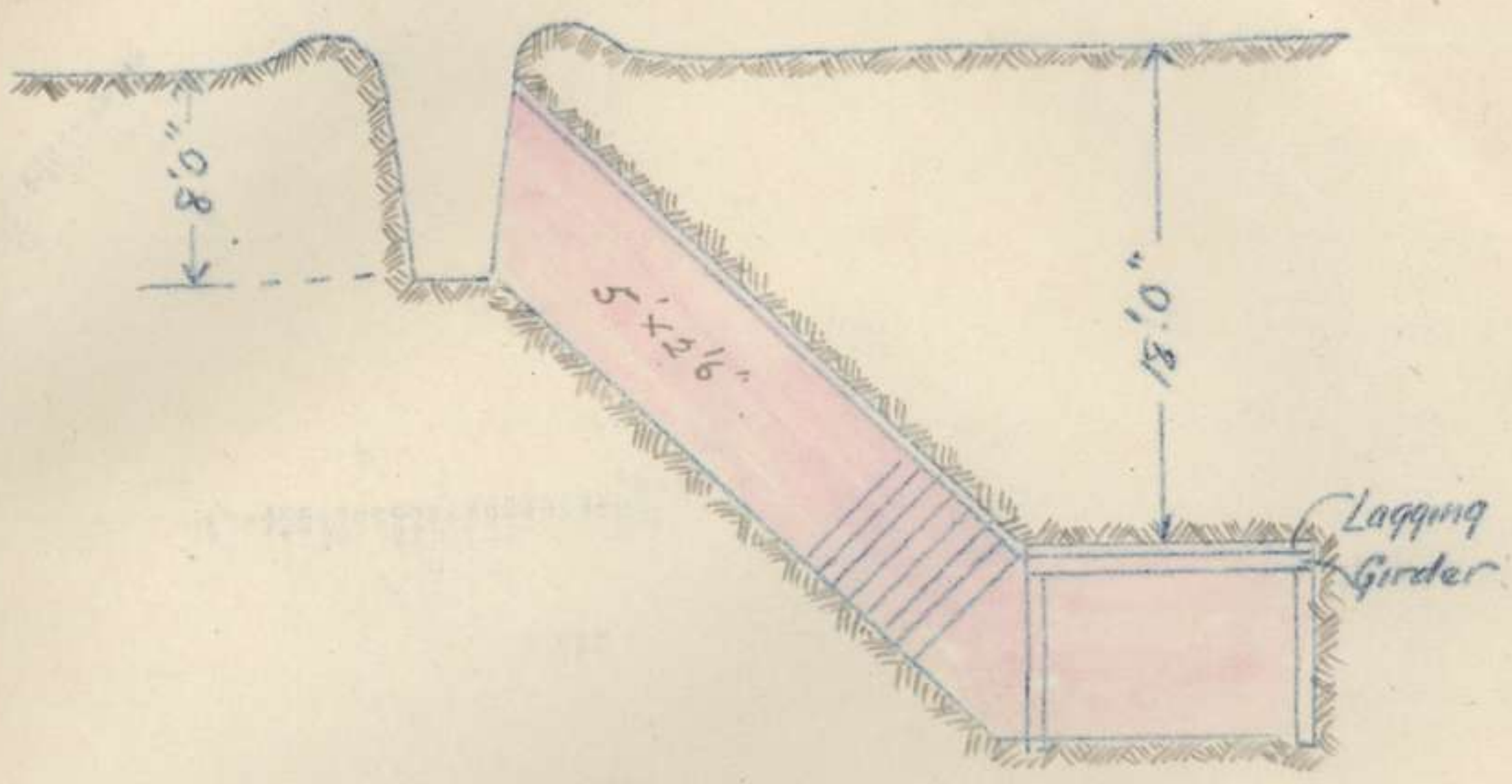
APPENDIX¹

Digouts for Signallers Bawvry.

Sheet 447. F14C. 40. 40

Completed April 1918

Sketch B



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Jeanson's Factory, Dugouts

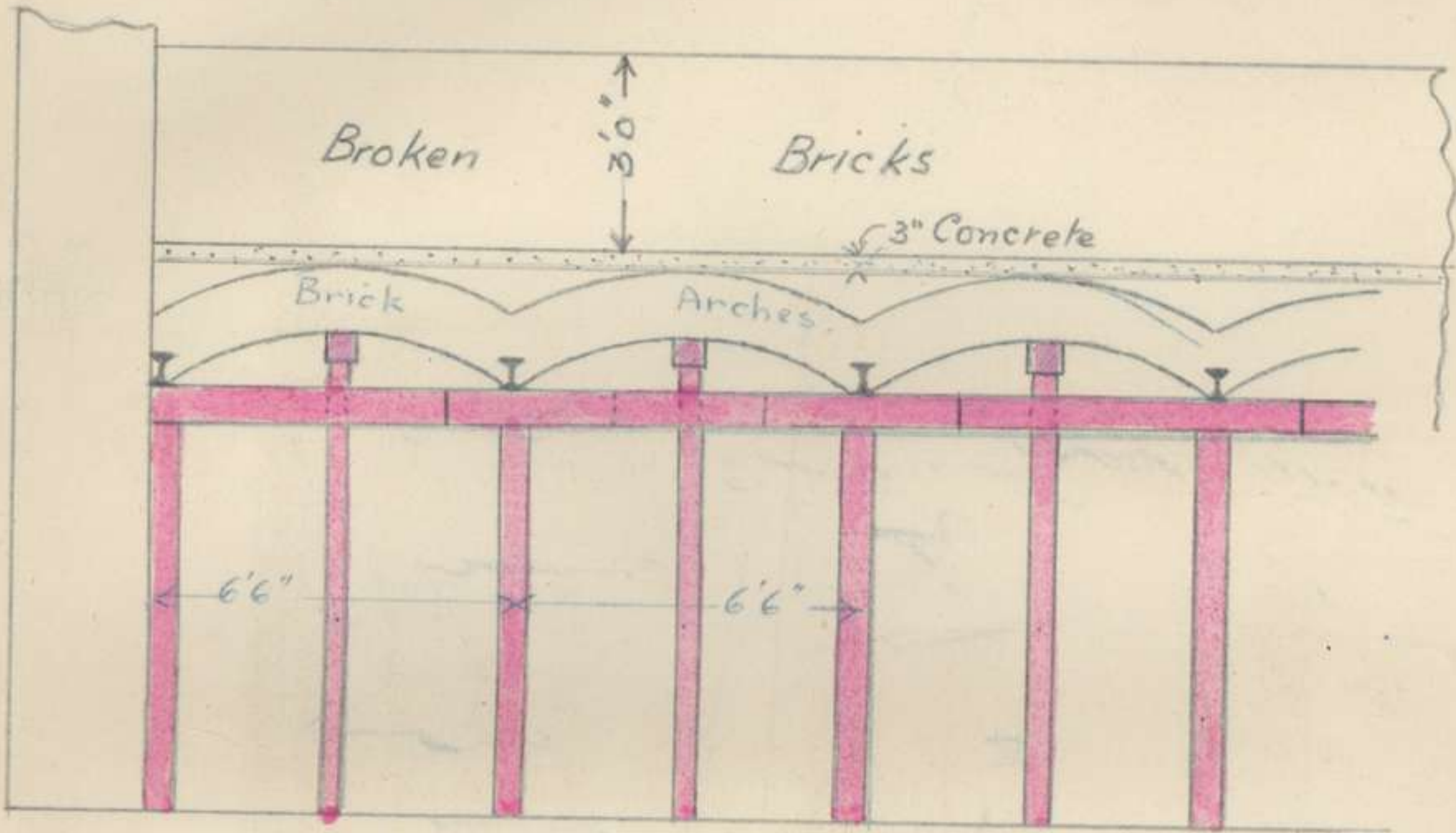
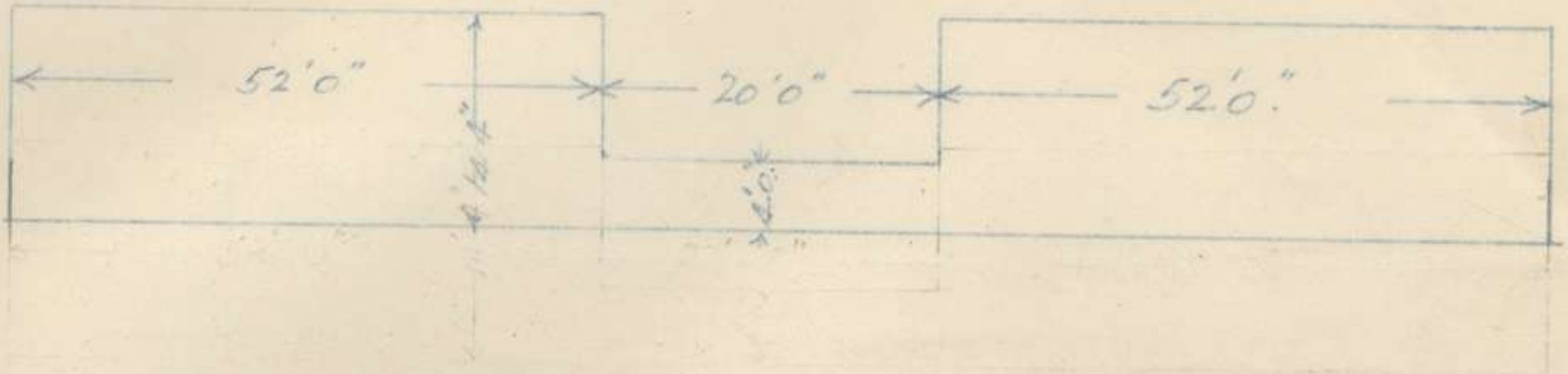
Map Reference, C 26 c. 60. 60.

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APPENDIX
Vide Appendix F

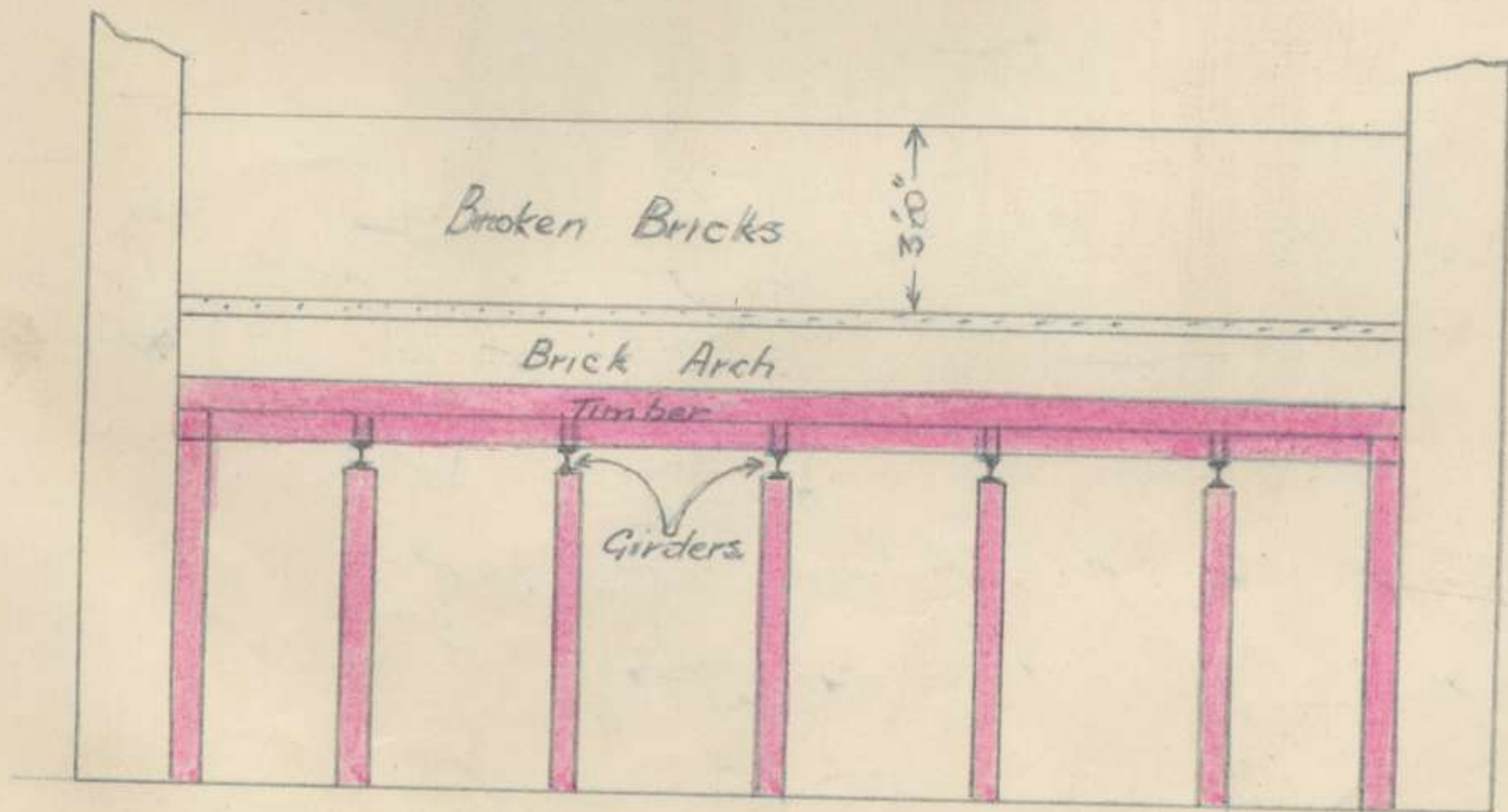
Sketch "C"

Not Completed, but stopped April 1918

The Fortified Capt
F.O.C. 3rd Australian Tunn. Coy



Sectional Elevation



End Elevation

Vide Appendix I.

SECRET

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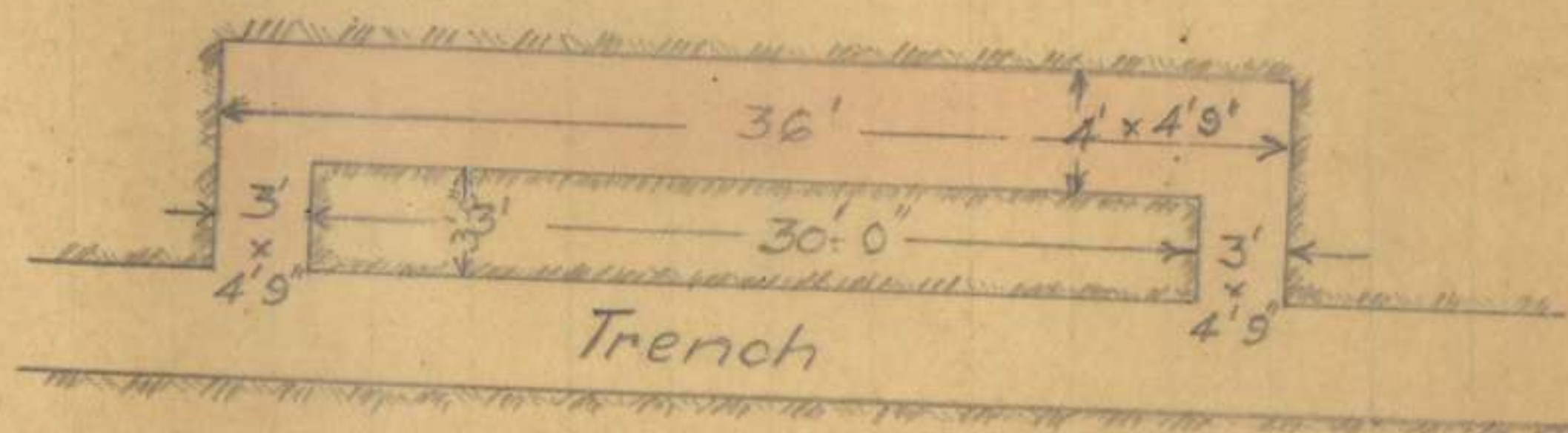
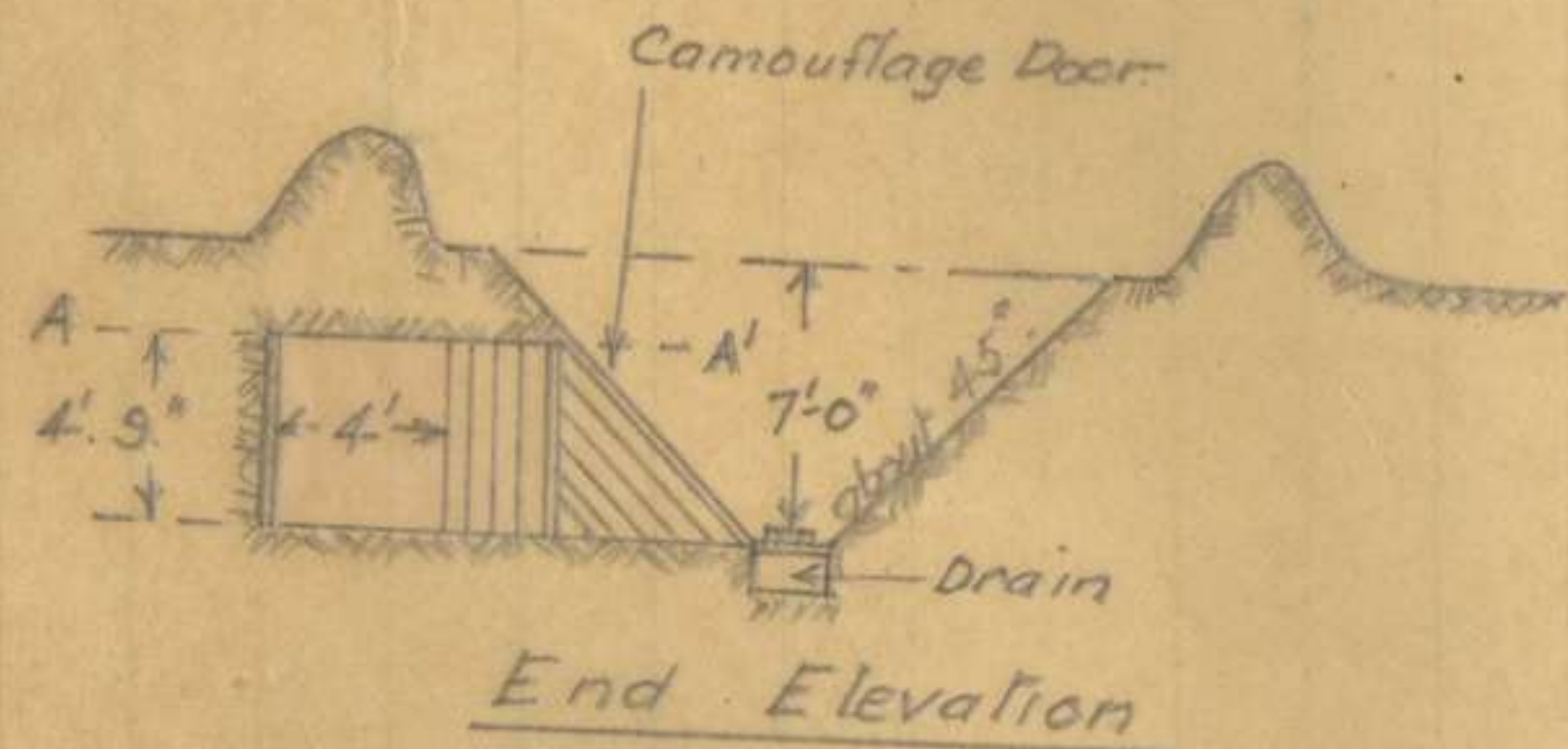
Sketch "E"

PROPOSED M.G. DUG-OUTS

Panama Canal

C 22.a. 80. 00.

Not completed, but stopped in April 1918.



Scale 10' to 1"

APPENDIX

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3rd Aust Tnlq. Coy

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Machine Gun Emplacements + Dugouts

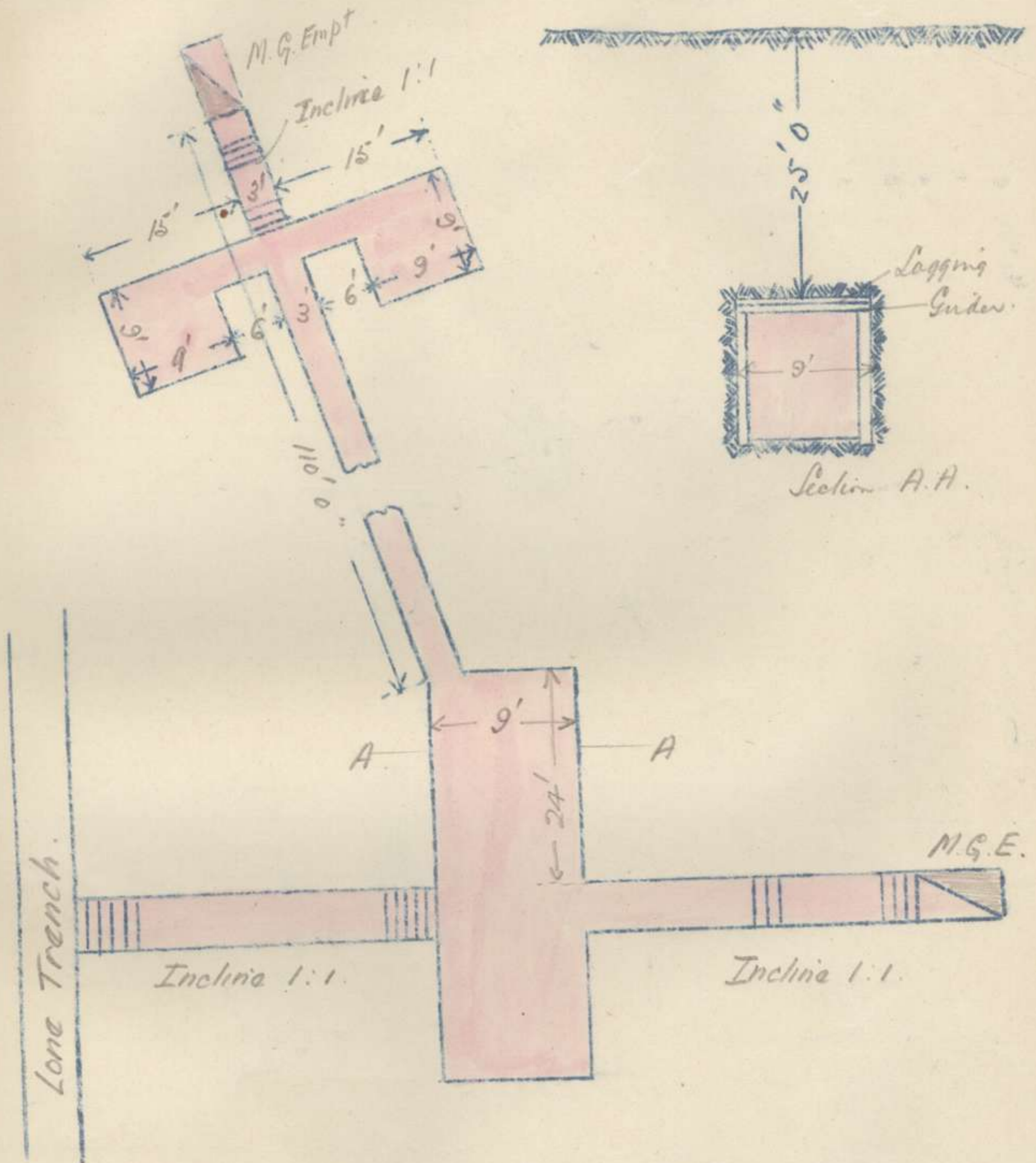
APPENDIX

Near Lone Trench.

Map Reference G. 17C. 50. 20

Completed April 1918.

Sketch "F."



3rd Aust. Tnlq. Coy.

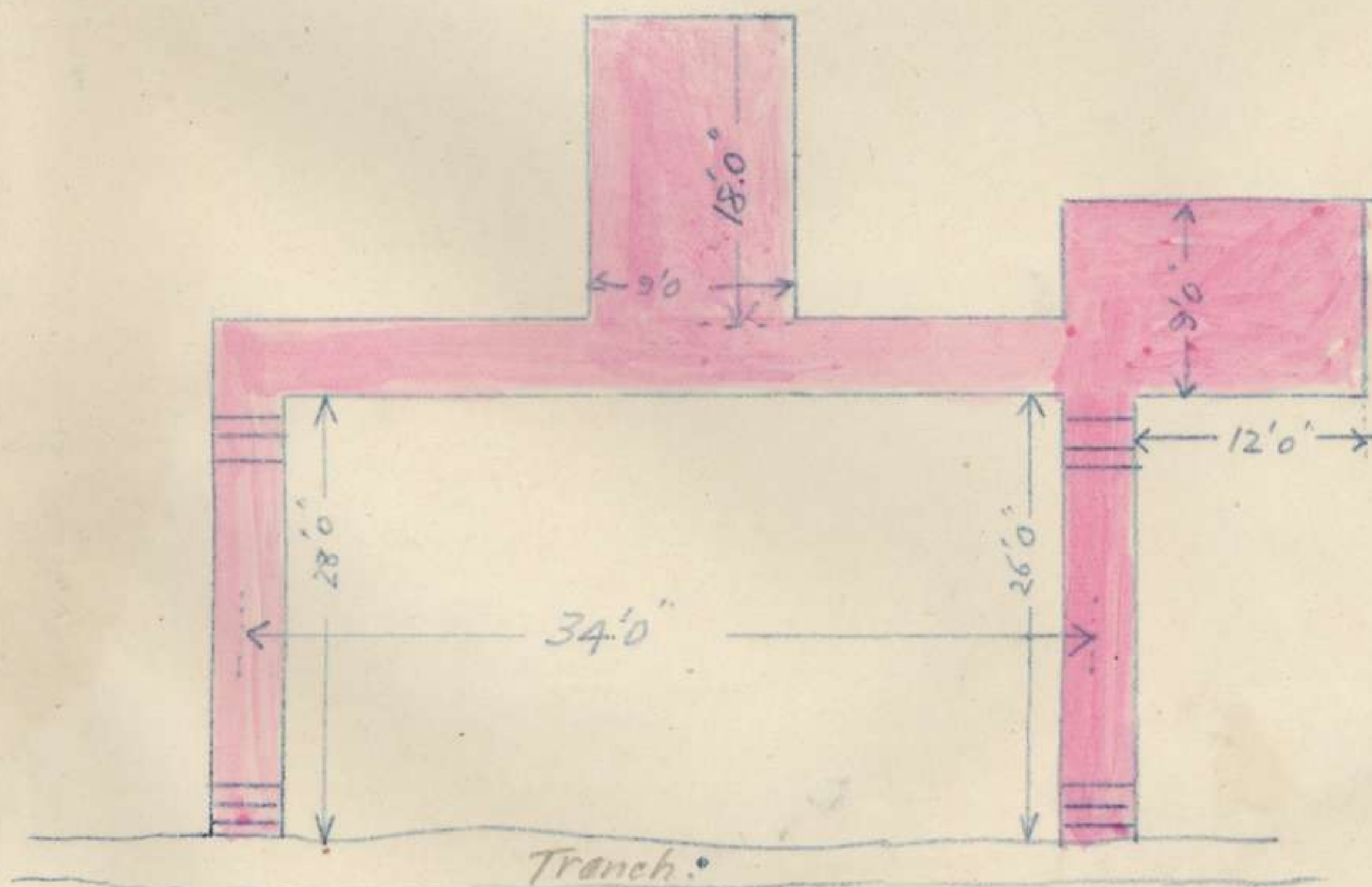
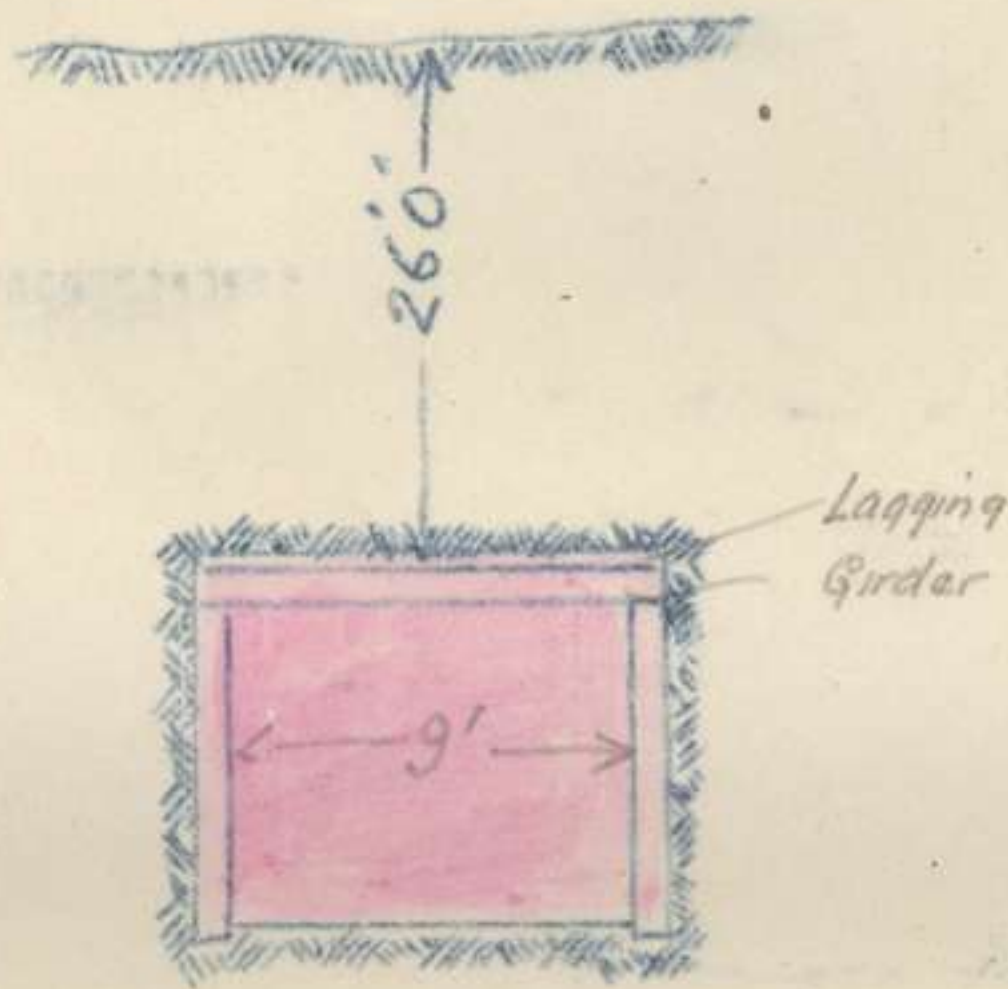
Dugout for M.G. Personnel (Hulluch Alley)

G 10a 30 35

April 1918

Completed ↗

Sketch "G"



356



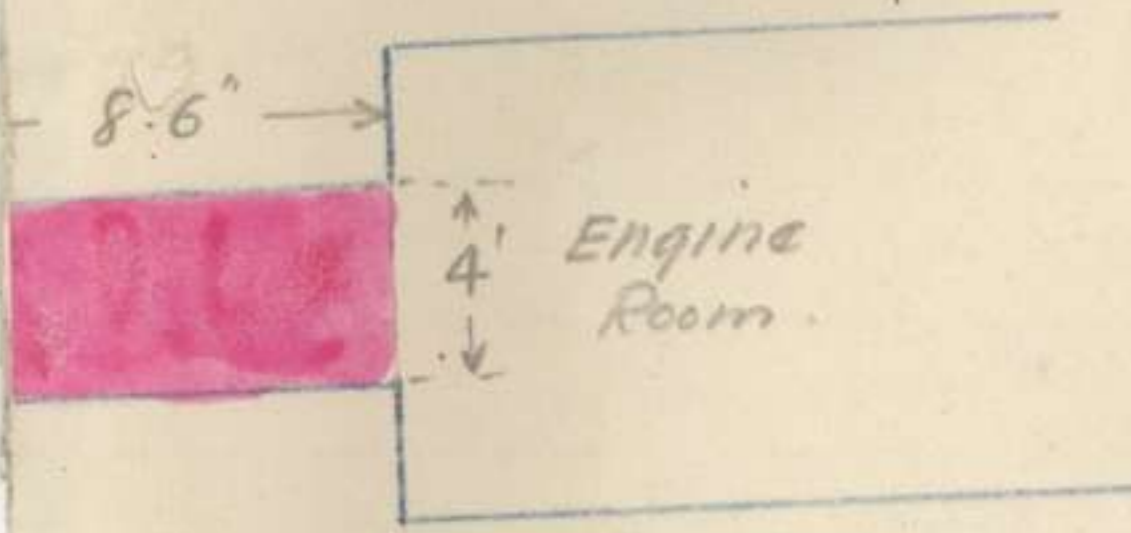
APPENDIX

151

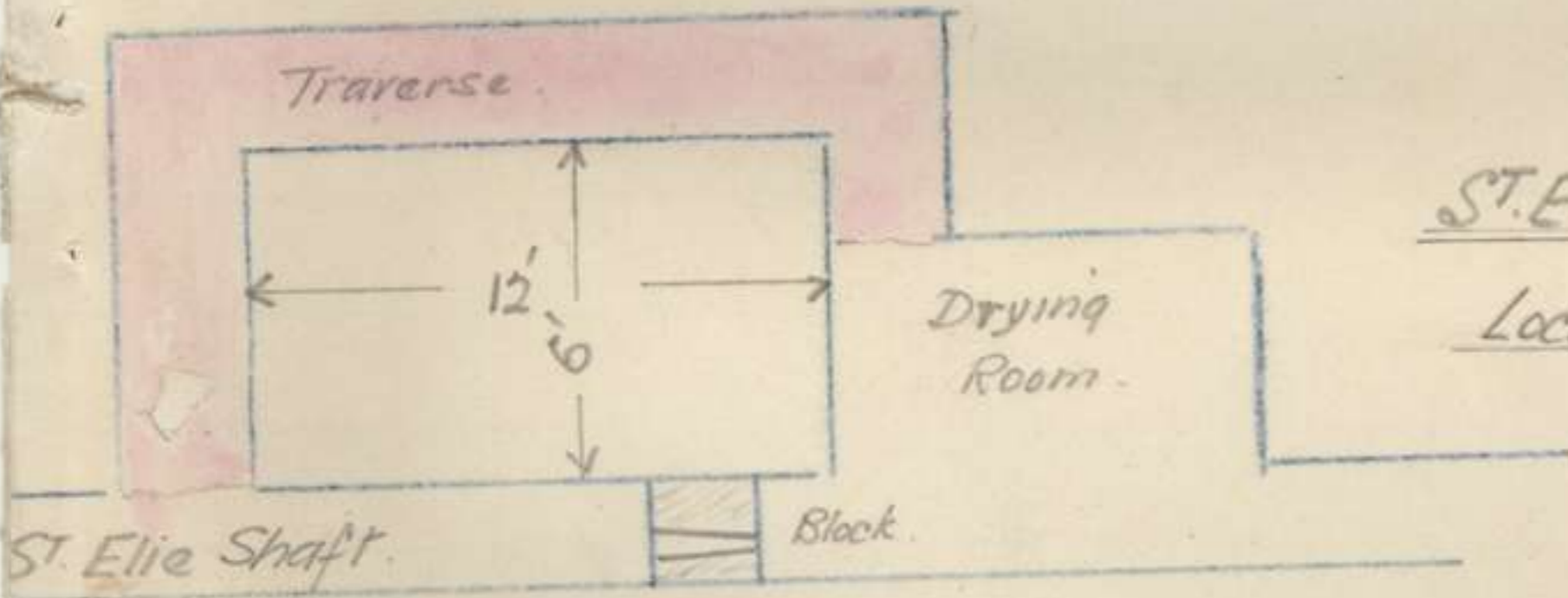
3rd Aust. Tnlq. Coy.

Location G. 18a 68. 87.

Cuddy for Tool Bench off Engine Room.
Completed April 1918.



Sketch H



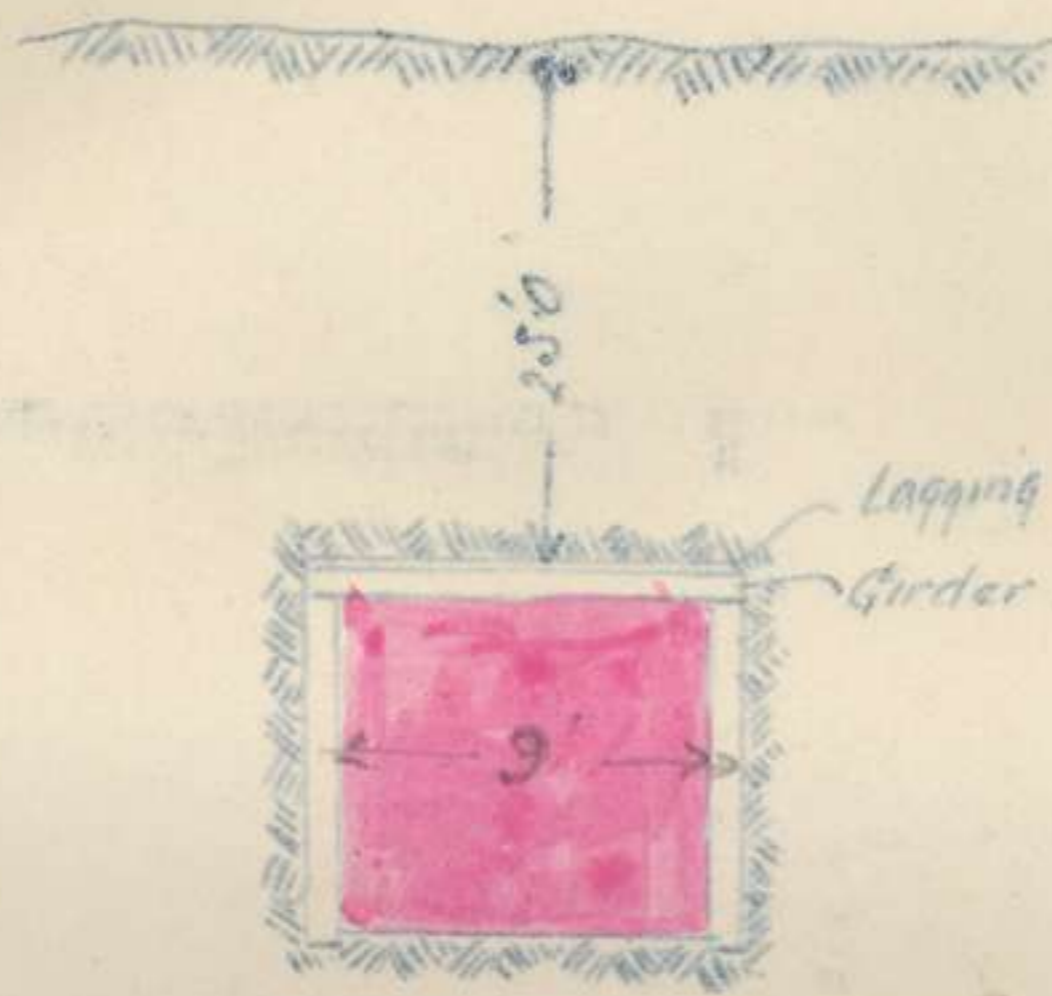
St. Elie Shaft. Traverse + Block

Location G. 18a. 66. 85.

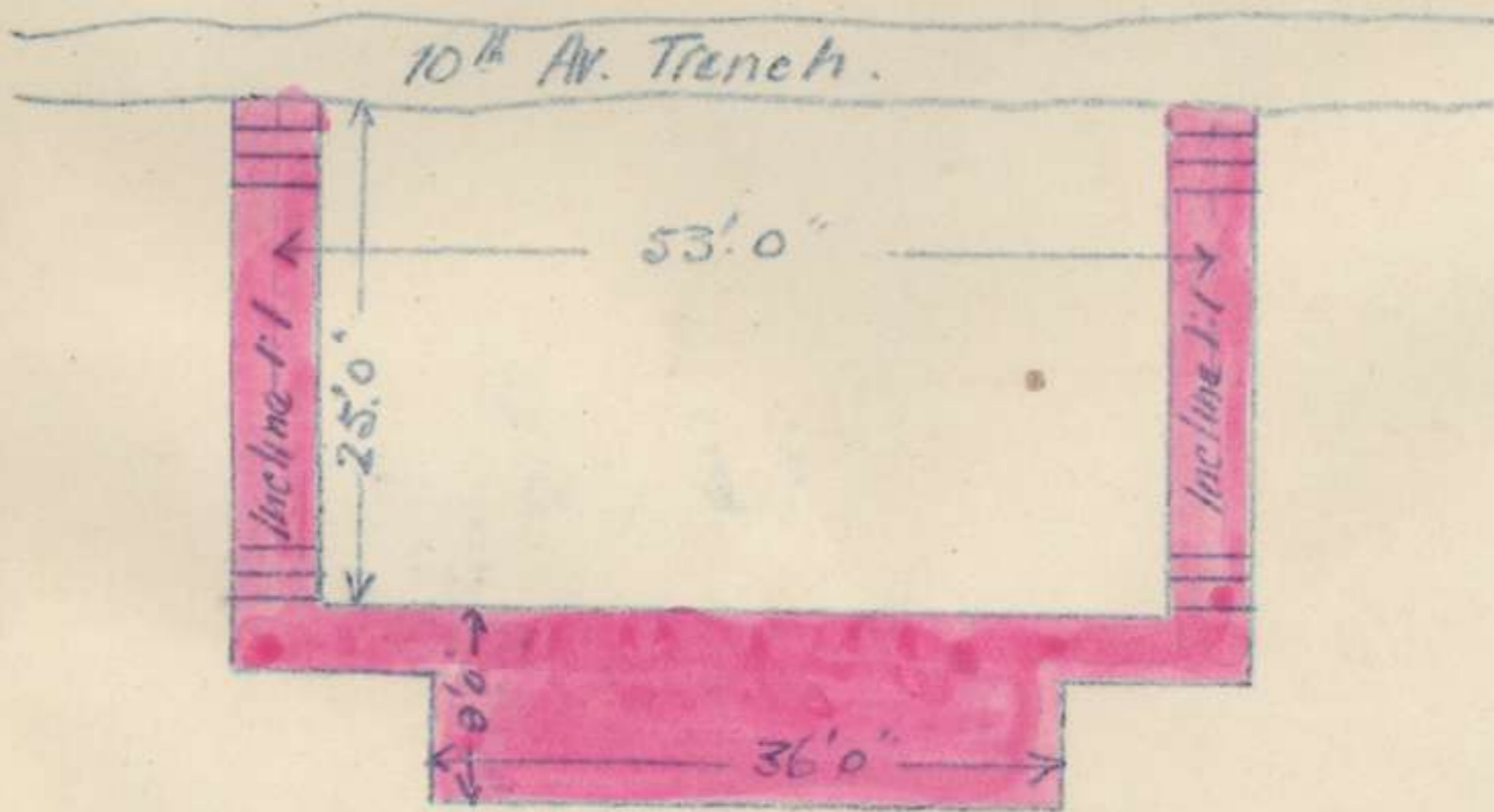
356

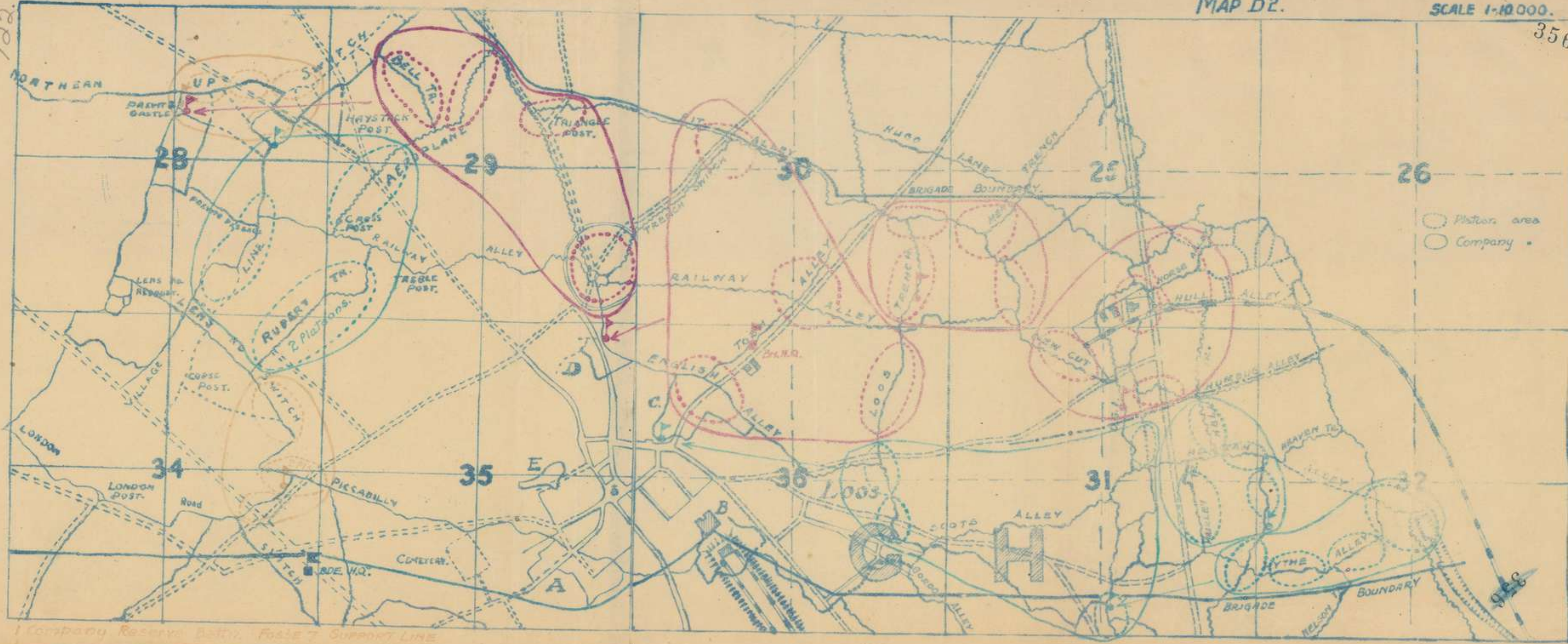
APPENDIX 152

3rd Aust. Tnl. Coy.
Dugout. 10th Avenue Trench.
Sheet 44a. G. 17d. 60 30
Completed Apr. 1918



Sketch J.

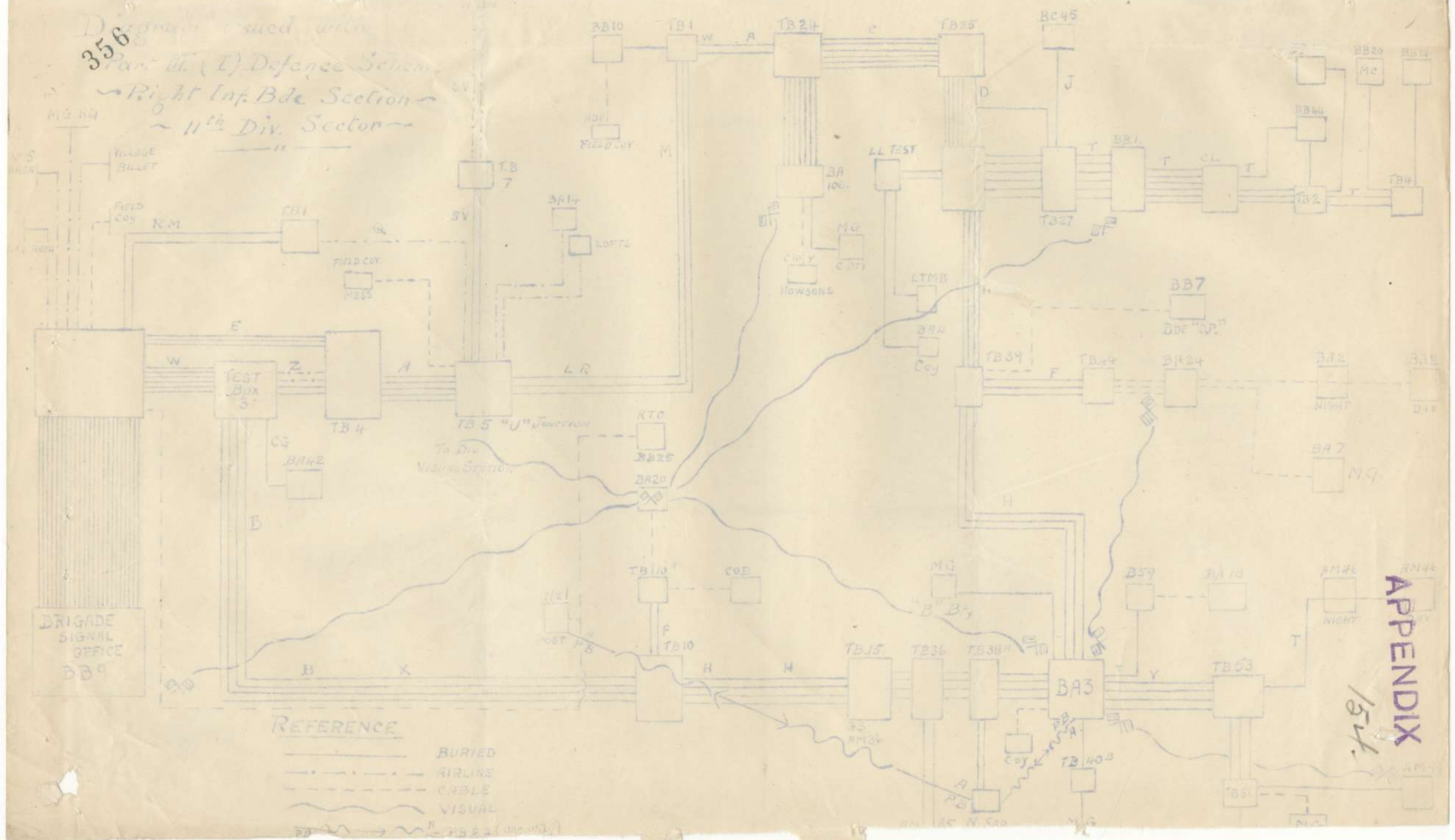




299

Company Reserve Batta, Fosse 7 Support Line
LONDON CO. SWOOP.

Diagram issued with
 356
 Part III (I) Defence Scheme
 ~ Right Inf. Bde Section ~
 ~ 11th Div. Sector ~



REFERENCE

- BURIED
- - - - AIRLINE
- CABLE
- ~~~~~ VISUAL

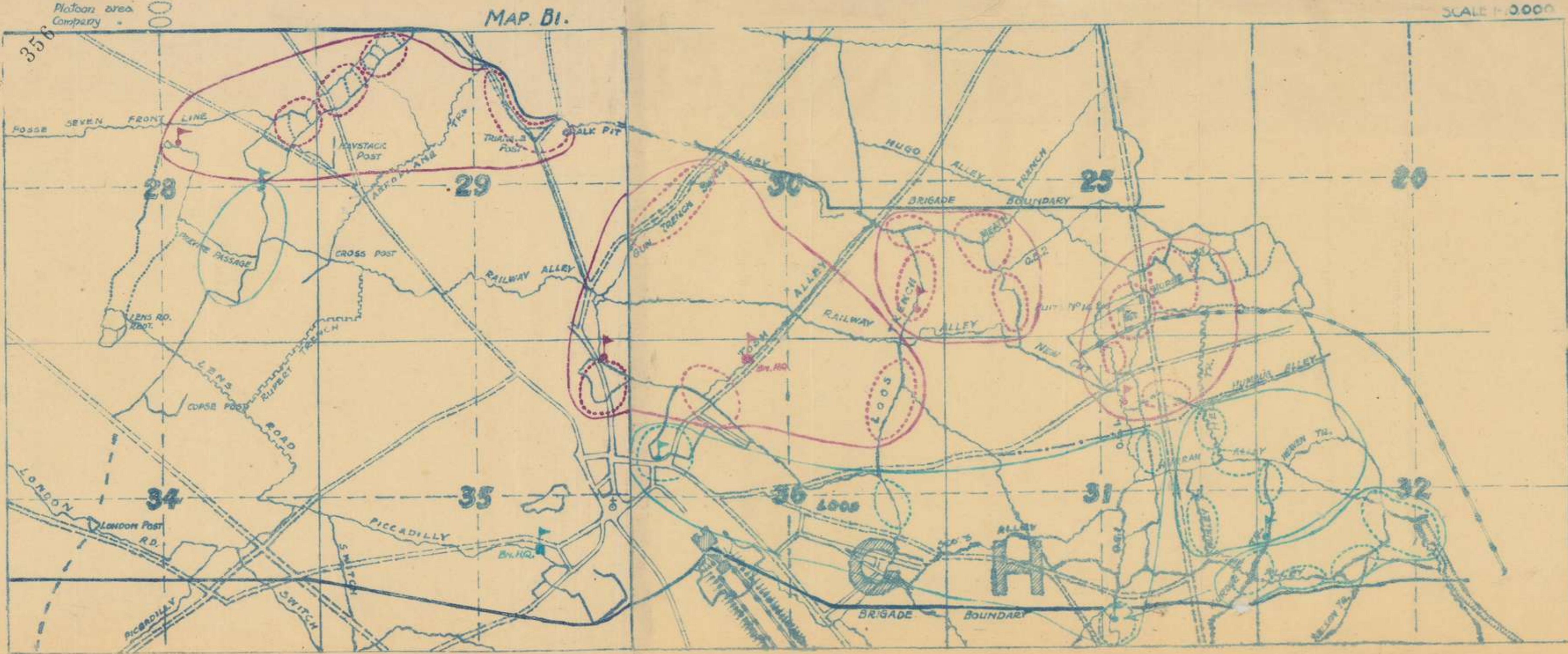
APPENDIX

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MAP B1.

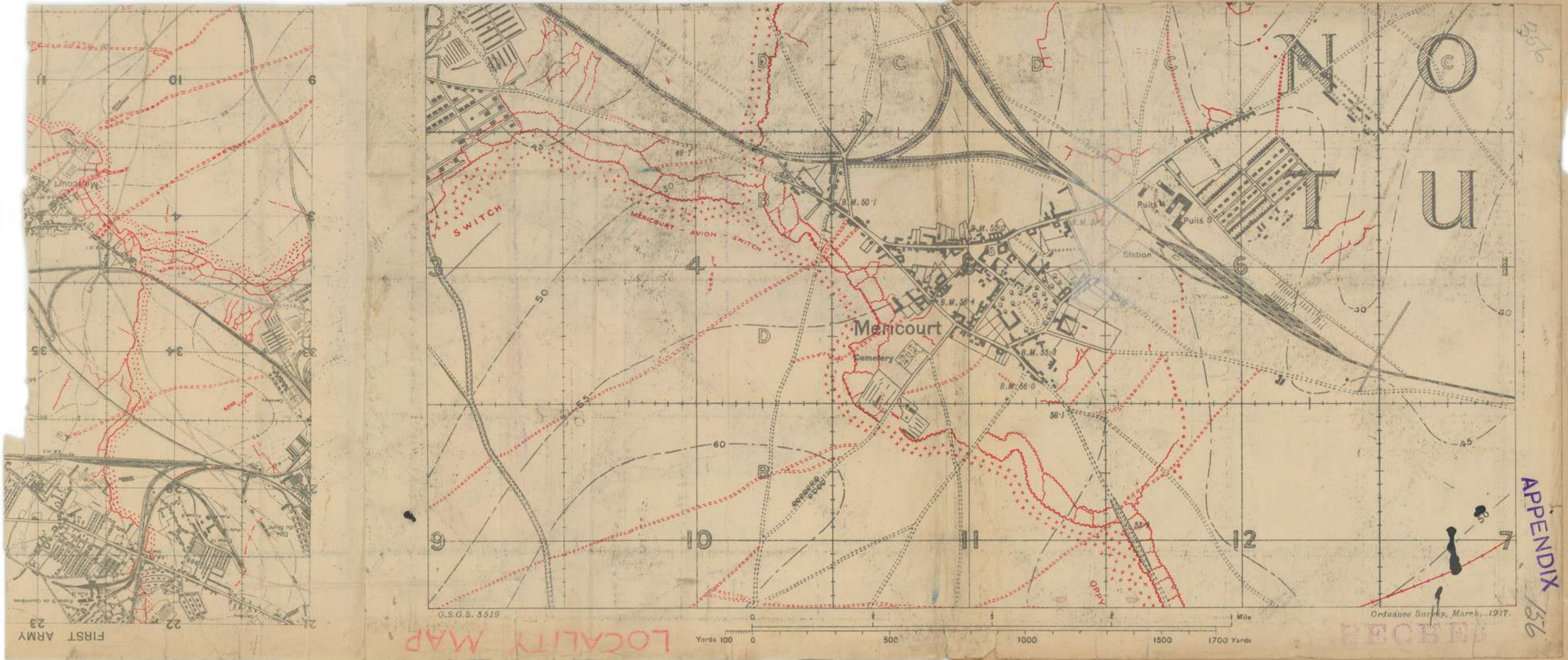
SCALE 1:50,000

3076



APPENDIX

1851

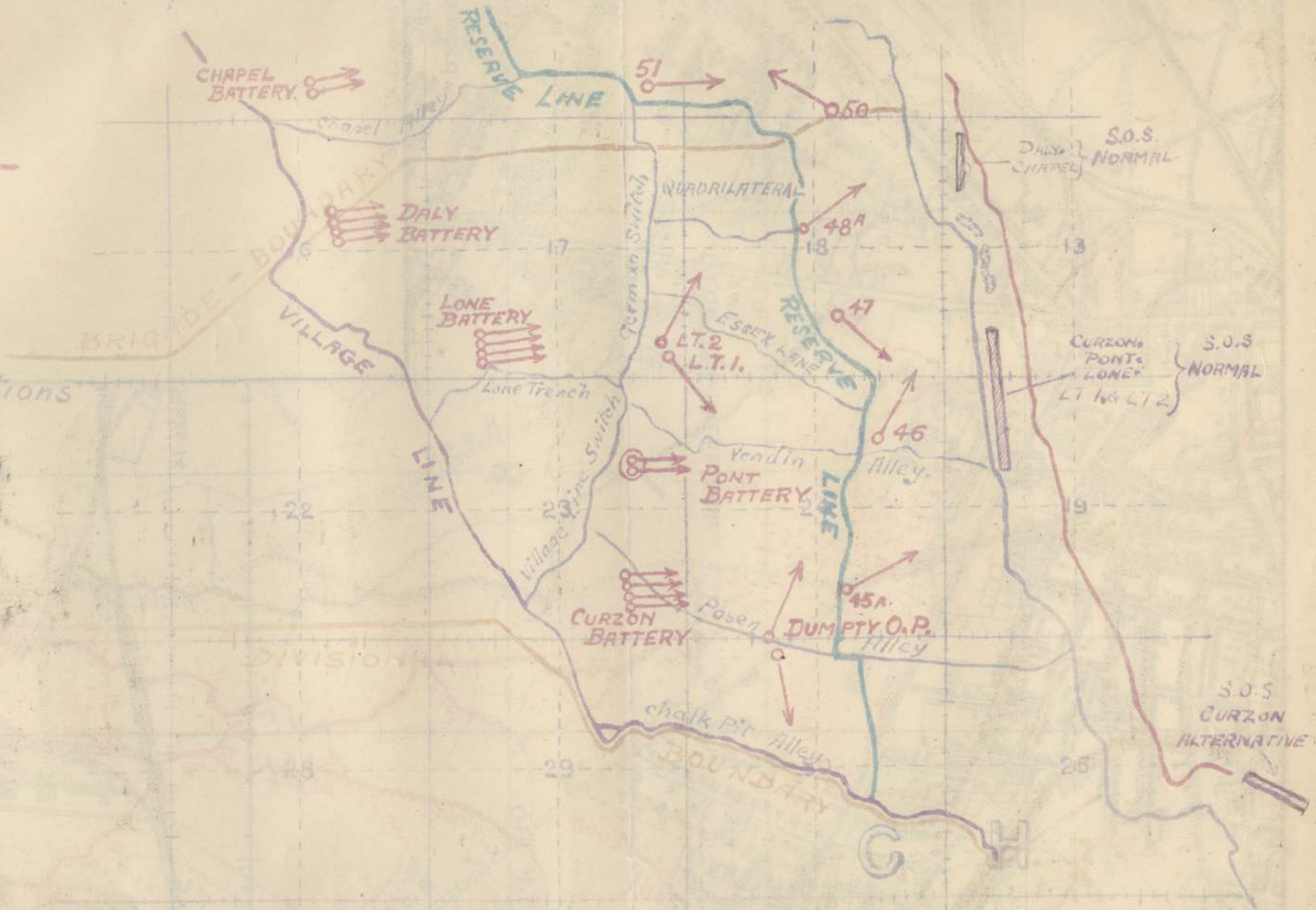


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- SECRET -

Map C

Showing Dispositions
of
Machine Guns
and S.O.S. Lines
Scale 1:20,000



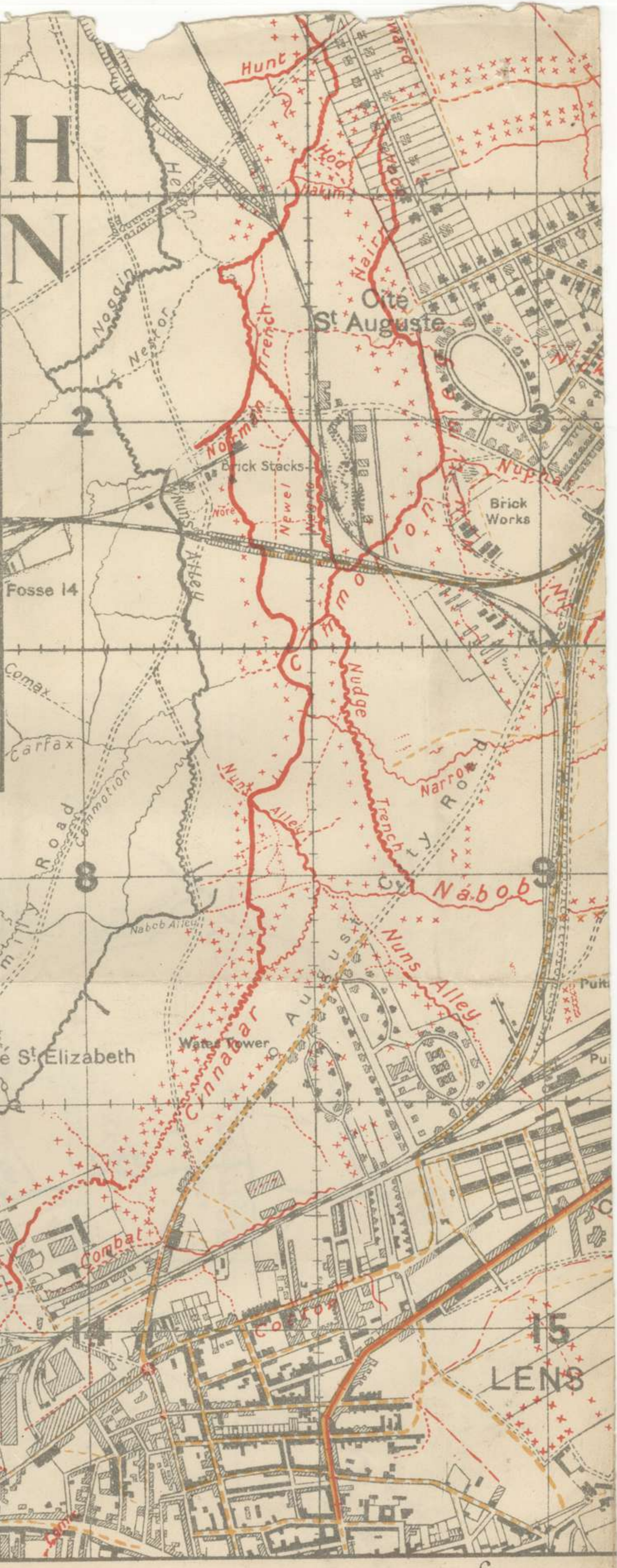
158

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CITE DU GP CONDÉ

REFERENCE.

- Roads [dashed line]
- Roads in use [dashed line with orange shading]
- Tracks [dashed line with orange shading]
- Tracks much used [dashed line with orange shading]
- Fire trenches [wavy red line]
- Other trenches [solid red line]
- Trenches much damaged or obliterated [dotted red line]
- Tramways or light railways [red line with cross-ticks]
- Posts [small square symbol]
- Ruins [hatched square symbol]



Field Survey Co. RE. 5078

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7/2/18

356
S Am Tunn Coy

SECRET.

33rd Infantry Brigade No. S.7./277.

Herewith Parts I and II; also Part III (sections A, B, C, D, and E.) of Right Infantry Brigade Defence Scheme.

The following maps are also enclosed:-

- Map "A" Dispositions.
- ~~Map "B" Barrage Map.~~

The remainder of the Defence Scheme follows shortly.

Please ACKNOWLEDGE receipt.

[Signature]

Major.
Brigade Major.
33rd Infantry Brigade.

18th April, 1918.

Copies to All Recipients of Right Inf: Bde: Defence Scheme.



SECRET.

33rd Infantry Brigade No. S. 7/277/2.

To ALL RECIPIENTS of 33rd Infantry Brigade DEFENCE SCHEME.

The following amendments are issued to 33rd Infantry Brigade Defence Scheme issued under this office No. S. 7/277, dated 18th instant :-

1. PART III, DEFENSIVE ARRANGEMENTS. B.

para. 1. under 5th (Army) Brigade R.F.A. add "D/5 Battery R.F.A." delete lines 11, 12, 13, 14, and 15.

2. PART III, DEFENSIVE ARRANGEMENTS. E.

Add the following new sub-para. (g), to para. 4. :-

"In case of actual or impending attack, a "counter-attack patrol" machine from No. 2 Squadron R.A.F. will go up as soon as possible after the commencement of the hostile bombardment, in order to watch for the moment at which the hostile infantry leave their trenches to attack. This machine will then fly to a position over the attacking infantry and fire smoke balls followed by coloured lights. The machine will endeavour to indicate the frontage of the attack by flying up and down the whole extent of the attack, repeating the signal.

The Artillery and Infantry will detail special observers to watch for this Signal. Owing to uncertainty of observation on account of smoke and weather conditions the absence of this Signal must not be taken to mean that no attack has developed. The intention is that this should be a supplementary signal to indicate that the enemy has left his trenches.

" For this purpose the Corps Front will be divided into two Sectors: the Signal for the 11th Division Sector will be a Green Light"

* * * * *

R.H. Clay Capt
Major.
Brigade Major.
33rd Infantry Brigade.

23rd April. 1918.

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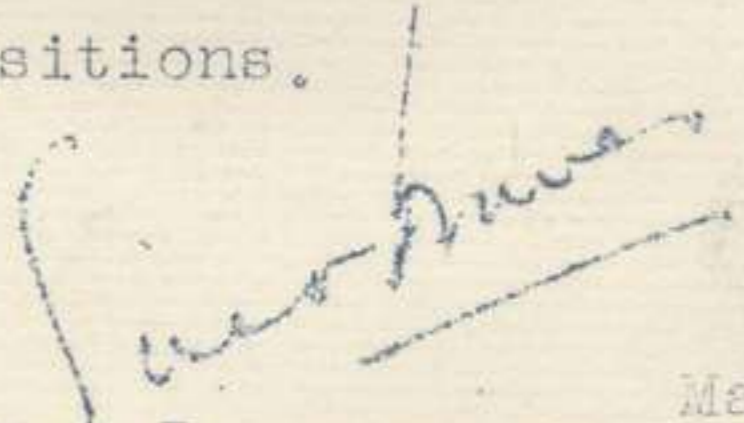
SECRET.

53rd Inf. Brigade No. S. 7/ 377.

DEFENCE SCHEME
 RIGHT INFANTRY BRIGADE SECTION
 11th DIVISION SECTOR.

TABLE OF CONTENTS.

PART I General Principles.
 " II Description of the Defences.
 " III Defensive arrangements -
 A. Infantry, and Engineers.
 B. Artillery
 C. Machine Guns.
 D. Trench Mortars.
 E. Action in case of Attack.
 F. Mining.
 G. GAS. H. -Tunnels.
 I. Communications.
 PART IV Appendices and Maps -
 Appendix 1 -S. O. S. Signal Posts.
 " II -Chain of responsibility for passing
 on S. O. S. Call.
 " III -Medical Arrangements in HULLUCH section.
 " IV -Reserve Rations, ammunition, grenades
 and stores maintained in keeps and
 Machine Gun Emplacements.
 " V -Supply of Ammunition, Grenades etc.
 " VI -Instructions regarding use of Light
 Railways.
 Map 'A' - shewing Dispositions.
 'B' - " Barrages.
 'C' - " M. Gun Dispositions.



18th April 1918.

Brigade Major, 53rd Infantry Brigade.

DISTRIBUTION:-

Copy No. 1	6th Lincoln R.	10 -	Hulluch Group R. F. A.
2	7th S. Staff R.	11 -	68th Field Coy R. E.
3	9th Sh. Fors.	12 -	35th Field Ambulance.
4	B. Coy, 11th Bn. M. G. Coy.	13 -	3rd Aus. Tunnelling Coy.
5	C. Coy -do-	14 -	B. G. C.
6	53rd K. T. M. Bty.	15 -	B. M and file.
7	11th Division.	16 -	Staff Captain.
8	34th Inf. Bde.	17 -	I. O. (for War Diary).
9	8th Can. Inf. Bde.	18 -	Bde Signal Officer.

-2-

(IV) The German Switch (TENTH AVENUE) connecting the Reserve Line with the Village Line forms, with the trenches about CURZON POST, a very important member of the defences of the ridge mentioned in para. 3 (1).

The Northern end of German Switch is strengthened by the QUADRILATERAL (the area bounded by German Switch, HAY ALLEY, RESERVE LINE and DEVON LANE).

5.

Recent experience shews that the enemy attacks with strong Infantry columns after a 4 to 5 hours bombardment with H.E. and Gas Shell.

To cope with this, our policy will now be to evacuate the front line system by day (except for a few guards at trench junctions, over trench mortars, and at tunnel exits) and to withdraw the troops back to the Reserve Line in the RIGHT sub-section, and into Tunnels in the LEFT sub-section. This will give deep dugout accommodation to the troops during the bombardment, and the enemy will have to cross a large No Mans Land under the fire of our artillery and machine guns.

Following on the above, it is essential for both front line Battalions to keep a continuous look-out by day over the area between our Reserve Line and the German front line, so that the O.C. Battalion will be informed immediately of any hostile Infantry advance and also of any hostile Artillery action.

To ensure this, not only will each Company have special observers posted, but each Battalion will have Battalion observers posted as close to Battalion H.Q. as possible, and a telephone line will be laid connecting these Battalion O.P.'s to Battalion H.Q. By this means, officers Commanding Battalions will be able to keep the Artillery Group and Brigade H.Q. informed of the situation.

In addition, the Artillery O.P.'s will also be able to report on the situation, but this does not in any way absolve Battalion Commanders from their responsibility in looking after their own front.

In rear of the Reserve Line, a number of tactical points are organised into defended localities suitable for a garrison of two or more Companies distributed in depth.

These localities form centres of resistance and will be defended by complete units.

The locality for which this Brigade is responsible is LONE Locality. This Locality is garrisoned by Battalion H.Q. and 2 Companies of the Support Battalion and 2 platoons of the Right front Battalion.

Other localities which concern the Brigade are as under:-

LOCALITY,	GARRISON,	FOUND BY
LE RUFOIRE	2 Coys Infantry 2 Sections R.E.	Brigade on the Left.
PHILOSOPHE,	Pioneer Battalion (less one platoon), 68th Field Coy. R.E., (less 2 Sections)	

-3-

The Battalion in Support is responsible for the maintenance of the LONE Locality. It will undertake as far as it is able, improvements to existing defences such as deepening fire and communication trenches where required. Any new work will be undertaken by the Corps, but Battalions will submit proposals for any improvements to the Localities, which they consider desirable.

7. In the event of our line being penetrated, communication trenches will be used to form defensive flanks, or to bring flanking fire on the enemy.
8. Localities and posts in the Front system and Village Line are permanently garrisoned by complete units. The responsibility for command will be clearly defined by Battalion Commanders.
A plan of the locality or post shewing the defences in detail will be kept by the Commander and handed over on relief.
Garrisons will be frequently tested in manning their fire positions.
9. Officers and a proportion of N.C.O's of Battalions will reconnoitre the ground over which they may have to counter-attack.

.....4 (Part II)

P A R T I I
=====

DESCRIPTION OF THE DEFENCES.
=====

Brigade Boundaries and division into Battalion Sub-sections -

1. The Brigade holds the RIGHT Section (HULLUCH Section) of the Divisional front.
 The 8th Canadian Infantry Brigade of the 3rd Canadian Division holds the section on our right (HILL 70 Section), and the 34th Infantry Brigade - the section on our Left (ST. ELIE Section).

2. The Southern Boundary of the Brigade is :-

 H.25.d.2/8 - H.25.c.4/8 - CHALK PIT to its junction with the VILLAGE LINE (all inclusive) thence due West to
 G.19.d.6/1 - L.29.b.7/8 - L.29.d.1/7 - L.22.d.5/0 -
 L.21.b.8/0 - L.20.a.8/9 - Road junction L.19.a.28/75 -
 K.18.d.15/15 - K.23.b.00/65 - Road Junction J.17.b.80/75 -
 Cross-roads J.10.d.88/88 - J.4.d.8/7.

 The Northern Boundary of the Brigade is :-

 VERMELLES-HULLUCH Road (exclusive) - G.12.d.72/89 -
 G.16.b.82/72 - G.16.c.00/80 - thence grid West.

3. The front is divided into two Sub-sections each held by one Infantry Battalion.
 The dividing line between the Sub-sections is :-

 H.19.a.5/0 - junction of VENDIN ALLEY and RESERVE LINE -
 junction of LONE TRENCH and TENTH AVENUE.

.....5 (Part III)

P A R T III

DEFENSIVE ARRANGEMENTS.A. Infantry and Engineers.

(1) -RIGHT front Line Battalion - H.Q. G.24.c.05/85.

BY DAY-

POSEN and CHALK PIT Localities will NOT be held (except for a few guards at trench junctions and over the Medium Trench Mortar.

The front line will be patrolled at intervals, and periscopes will be left at their usual places. This will be done for the purpose of letting the enemy see movement and activity in the front line system, so that he will not know that it is evacuated by the bulk of the garrisons.

There will be 3 Company H.Qs in the Reserve Line at G.30.b.45/30, G.30.b.5/9 (in POSEN ALLEY) and G.24.d.25/80 and one Company H.Q. at junction of POSEN ALLEY and TENTH AVENUE (G.24.d.25/85). The O.C. Battalion will dispose his Battalion, so that by day not less than 3½ Companies (including guards at trench junctions and over trench mortar) are in, and forward of the Reserve Line.

The other 1½ Companies are accommodated in the vicinity of CURZON POST and in TENTH AVENUE from PONT ST inclusive to NORTHERN SAP REDOUBT inclusive.

Of the above 1½ Companies, 2 platoons will be detailed as part of the garrison of LONE LOCALITY and will come under the orders of O.C. Support Battalion. The remaining 4 platoons will be used by O.C. Right Battalion to counter-attack on to the Reserve Line whenever he thinks fit.

DAY Dispositions will be taken up half an hour before dawn.

BY NIGHT-

The front line system will be occupied to beat off hostile raids which may be made to reconnoitre our front line - our patrols are also thereby supported.

CHALK PIT and POSEN LOCALITIES will each be held by 3 platoons, i.e. - two platoons in each locality finding front line posts, with one platoon in support for local counter attack. Advanced Coy. H.Q. will be at H.25.a.5/8 and H.25.a.5/0.

The front line posts will be strong posts, capable of all-round defence, with sentries looking out to rear and flanks as well as in front. Lewis Guns for these posts will always have sentries on each flank. These posts should not be placed in the same position each night.

Four platoons of the 1½ Companies accommodated by day in the vicinity of CURZON POST and TENTH AVENUE as above, will move down to the Reserve Line.

The remaining 2 platoons will be detailed as part of the garrison of LONE Locality and will come under the orders of O.C. Support Battalion.

NIGHT Dispositions will be taken up by Stand-down in the evening. All movement in the evening will be in small parties to avoid observation.

Generally-

The front line will not be entirely evacuated by day if there is a mist. On a misty day, one platoon each will be in POSEN and CHALK PIT Localities. An officer will be in charge of each platoon and will be in the advanced Coy. H.Q. in MEATH TRENCH and POSEN ALLEY respectively where he will be on the telephone to Battalion H.Q. The role of these 2 platoons is to give the alarm, should the enemy attack, by opening rapid fire and by telephoning back to Brigade H.Q. This done, they will withdraw on to the reserve line. This will enable the Artillery to shorten their range if necessary.

The officers in command of these two platoons must satisfy themselves that the enemy is attacking in force, before acting as above.

(II)-LEFT Front Battalion - H.Q. G.17.b.75/15.

(a) One Company (Tunnel Outpost Company), Coy. H.Q. in the Tunnel at G.18.b.8/0, garrisons the HAY Locality which consists of a series of posts at the Tunnel exits.

Two Companies, one Coy. H.Q. at G.24.b.35/75 and the other in the Tunnel at G.18.a.9/3, garrison the Reserve Line.

The 4th Company, Coy. H.Q. G.17.d.55/15 is in TENTH AVENUE between LONE Trench and HAY ALLEY. This Company is for the defence of NINTH AVENUE between VENDIN ALLEY and HAY ALLEY.

The personnel of Battalion H.Q. will be used to defend the Spoil Heaps round HAY DUMP. There is a good field of fire to the North of from these heaps.

(b) BY DAY-

At half an hour before dawn, sentries will be posted at Tunnel entrances in HAY Locality, and the remainder of the Outpost Company withdrawn into the tunnel.

In the event of a bombardment by day the garrison for each post will be ready to man their posts above ground as soon as the hostile barrage lifts, and parties will be in position at each block in the tunnel guarding an entrance, Lewis Gun, or Trench Mortar emplacement.

Should the Tunnel entrances at each post be blown in the O.C. Left Battalion will order the Outpost Coy either :-

- (1) To withdraw via the Tunnel to the Reserve Line and counter-attack over the top of the ground for the possession of the Tunnel exits. (This would be done in the event of the German attack being held up by the Reserve Line).

(II)

To withdraw via the Tunnel to Battalion H.Q. and man NINTH AVENUE or form a defensive flank along HAY ALLEY as he considers best.

Right Coy. in Reserve Line will patrol down VENDIN ALLEY twice each day and examine old VENDIN POST. Times for these patrols will be altered each day.

(c) BY NIGHT

From stand-to in the evening to half an hour before dawn, the Outpost Company will be above ground.

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(III) Support Battalion - H.Q. HOWSONS POINT G.22.b.9/8.
Rear H.Q. - The Avenue MAZINGARBE
L.23.d.15/75.

Battalion H.Q. and 2 Companies of Support Battalion together with 2 platoons from the Right front Battalion, form the permanent garrison of the LONE Locality.

The above garrison will defend the LONE LOCALITY to the last. The garrison will on no account fall back without orders from Brigade H.Q.

The other two Companies of the Support Battalion are accommodated at NORTHERN HUTS, MAZINGARBE. These two Companies will be in readiness to move up to LONE LOCALITY at half an hour's notice on receipt of orders from Brigade H.Q. They will take up with them 100 rounds extra S.A.A. per man. O.C. Battalion will ensure that there is sufficient S.A.A. for this purpose kept in bulk near the men's billets.

In the first instance these 2 Companies will garrison the VILLAGE LINE between NORTHERN SAP REDOUBT and G.16.c.7/8. They will be under the command of O.C. Support Battalion.

(IV) -68th Field Coy. R.E. H.Q.-The Avenue MAZINGARBE L.23.d.2/9.

That part of the 68th Field Coy. R.E. which is in PHILOSOPHE forms part of the garrison of that locality.

There are elements of the 68th Field Coy. R.E. in MAZINGARBE (i.e. resting section, attached Infantry, Mining Platoon).

(V) In addition to Battalion Defence Schemes, each front line Company will draw up a Defence Scheme. These schemes will be handed over on relief.

B. ARTILLERY DEFENCE-

(1) The HULLUCH Group covers the HULLUCH Section and consists of the following.

Headquarters - MAZINGARBE L.23.d.1/7.
Zone - H.25.d.75/92 to H.7.c.05/25.

5th (Army) Brigade R.F.A. comprising :-

64th Battery.
73rd Battery.
81st Battery.

C/59 Battery R.F.A. is also included in the HULLUCH Group.

In addition to the above, D/58 Battery and D/5 Battery will form a composite Battery under O.C. D/58 to cover the HULLUCH and ST. ELIE Sections. They will form part of ST. ELIE Group, but will place half their guns at the disposal of O.C. HULLUCH Group.

(II) Defence and S.O.S.

The call - "S.O.S. HULLUCH NORTH (or SOUTH)" to the Artillery, brings down a barrage in front of the German front line along the Brigade front.

The present S.O.S. Signal for the Divisional front is three GREEN. The present S.O.S. Signal for the 3rd Canadian Division on our right is three RED. These colours will be changed from time to time.

S.O.S. Posts are set out in Appendix I.

The chain of responsibility for passing on the S.O.S. call is shown in Appendix II.

..... 8.

(III) ²⁵⁶Gas :- Should a gas cloud be unaccompanied by an Infantry attack, no S.O.S. Signals will be given, but the message - "GAS HULLUCH NORTH (or SOUTH)" will be sent to the Artillery and Brigade H.Q. On receipt of this message an Artillery barrage of H.E. will open on S.O.S. Lines.

(IV) Tanks- Should the enemy use Tanks, the following message will be sent to the Artillery and Brigade H.Q. viz- "S.O.S. TANKS HULLUCH NORTH (or SOUTH)".

(V) Counter-Battery-

If counter-battery help is required, the following information should be given to Brigade Hd.Qrs :-

1. Locality shelled.
2. Approximate grid bearing of hostile Battery and position of observation.
3. Calibre of offender.
4. Number of rounds fired.
5. Time of commencement and time bombardment ceases.

Battalion Commanders will keep Brigade H.Q. informed every 15 minutes of the result of our heavy artillery fire.

(VI) Gas Shell Bombardment.

Any hostile gas shelling must be reported to Brigade H.Q. at once, and also to flank Companies and Battalions, stating locality shelled. Units will also send to Brigade H.Q. the detailed information set out in APP. III.

(VII) Action in Case of Hostile Bombardment.

(a) Hostile attacks on a large scale may be of two natures :-

An Infantry assault preceded by a heavy and more or less prolonged bombardment of our trenches indicating the probability of the attack. This bombardment may extend over days, or it may consist of a hurricane bombardment lasting only a few hours.

(b) An Infantry Assault delivered under an Artillery barrage but without previous artillery bombardment.

As regards (a). The Artillery have schemes drawn up for placing on the enemy front line trenches a counter bombardment identical with the one placed on our trenches. Further, this counter-bombardment will vary in intensity according to the strength and rapidity of the hostile fire. The object of this procedure is to destroy the assaulting troops in their assembly positions before they can deploy for attack. The counter-bombardment will be called for by those Brigade H.Q. on information received from units.

As regards (b). Action will be taken as in (II) above.

(VIII) Tests- Frequent S.O.S. and Gas Tests will be carried out by FRONT line Battalions and will originate from Company H.Q. A message as under will be sent off by PRIORITY wire - "BERLIN HULLUCH NORTH (or SOUTH)". Rockets will not be fired for these tests. The Battery concerned will fire one round gun fire on its S.O.S. Lines. A report of all tests will be sent to Brigade H.Q. stating :-

- (a) Whence message emanated.
- (b) Time of giving message to Signallets at Coy.H.Q.
- (c) Time "R.D" was received from First Artillery Unit it was sent to.
- (d) Time the Artillery rounds reached the German front line.
- (e) Where each round fell or burst i.e. whether just in front of our wire, on the German front line or behind the German front line.

These tests are for the purpose of checking the communications. The Artillery will take no different action for a gas or S.O.S. test. Battalion Commanders should, however, hold gas tests for the purpose of seeing if all gas arrangements are in order. BC respirators and Gas Doors should be inspected at these tests.

Gas Alarms, Strobos Horns, Gongs etc will not be sounded for these tests.

(IX) A series of barrages have been worked out between our front line and Reserve Line, so that the artillery can quickly turn their guns on to the enemy should he succeed in penetrating our lines. The final barrage is 200 yards in front of the Reserve Line. Map 'B' shows the barrage lines. The Artillery will NOT shoot on to barrage lines B, C and D unless and until asked to do so by Battalion Commanders concerned.

C. MACHINE GUNS.

(a) Forward Guns.

Forward guns are sited for the protection of the Reserve Line and are near to or in front of it.

In some cases these guns are given S.O.S. Lines in No Mans Land.

In all cases, these guns are given lines of fire for close defence upon which they open on penetration of the front line. These lines of fire are always direct and are laid so as to cover the Reserve Line.

(II) Rear Guns.

There are three Batteries in the Brigade Section i.e. CURZON, POWELL and HONE Batteries.

S.O.S. Lines have been selected in conjunction with the Artillery so that by forming a very thick belt between defended localities, a greater concentration of Artillery can be placed in front of the defended Localities.

(III) It is of the utmost importance that Machine Gun Coys are warned of all raids, otherwise guns from an adjacent Brigade front might fire on their S.O.S. Lines into one of our own raiding parties.

(IV) Machine Gun Coy. Commanders will make themselves acquainted with all Infantry posts in the front line and any alterations which may take place from time to time in the positions of those posts, especially on the Company front on which their S.O.S. Lines are laid. The S.O.S. Lines have been laid as close to our lines as the present position of forward posts allows. Changes in these posts will probably, therefore, demand changes in S.O.S. Lines.

(V). Map 'G' issued herewith shows guns and batteries in the HULLUCH Section.

(VI). Harassing fire is arranged by officers commanding Machine Gun Companies in consultation with R.A. and Infantry Brigades.

(VII). The Machine Gun Coys forward H.Q. are in TENTH AVENUE G.23.b.3/3. In the event of an attack, the officers in charge of the forward guns go - one to DUMPTY J.P. and the other to the Reserve Line near HAY ALLEY, and the Officer in charge of Batteries reports to Right front Battalion H.Q. - G.21.c.05/85.
Rear H.Q. of M. Gun Coy are in MAZINGARBE.

D. TRENCH MORTARS.

(I) Heavy Trench Mortars.

Heavy Trench Mortar is at G.18.d.72/95.

The H.Q. of Battery are in TENTH AVENUE at G.17.d.75/55/

(code name CRATER).

(a1) Medium Trench Mortars.

Medium Trench Mortars (Y.11.M.T.M. Battery) are situated as follows:-

G.18.c.95/33.

G.18.d.00/28.

G.30.b.95/20.

H.25.c.07/75.

The H.Q. of the Battery are in TENTH AVENUE at G.17.d.75/55 (code name CRUMP).

(III) Light Trench Mortars-

Light Trench Mortars are, or will be situated as follows:-

- One Gun (PROTO) at H.15.c.10/88.✓
- One Gun (ESSEX LANE Gun) at G.24.b.75/73.✓
- One Gun in GUN TRENCH SWITCH - G.30.b.35/70.✓
- One Gun in GUN TRENCH SWITCH - G.30.b.25/80.✓
- One Gun (PONT GUN) at - G.24.a.8/5.✓
- One Gun (in PONT ST) at - G.24.a.15/15.✓
- * One Gun (In TENTH AVENUE) at G.17.d.70/85.✓

* (To cover Reserve Line or fire North to cover HAY DUMP as required).

Forward H.Q. of 33rd L.T.M. Battery are at junction of LONE TRENCH and TENTH AVENUE (G.17.d.45/00)✓ Rear H.Q. are in MAZINGARBE.

E. ACTION IN CASE OF ATTACK.

1. The Reserve Line constitutes the main line of defence for which the Brigade will fight to the last. It will be held by a permanent garrison who will live in and near this line and will not move forward to counter-attack on the front line. It is also defended by some Vickers Guns.

Officers Commanding Battalions must realize that if the enemy is held up in front of the Reserve Line he must be immediately counter-attacked and driven out of the forward localities. For this purpose, special platoons (other than those above mentioned) must be detailed by officers Comdg Battalions.

2. Counter-attacks made by Battalion Reserves must be immediate to be effective and may have to be made without Artillery Support. An attack made at once while the enemy is still disorganised, has far more chance of success than an attack by a much larger force, made after the enemy has had time to organize his new positions.

3. In the event of the fronts of the Brigades on our Right and Left being penetrated, Battalions will be prepared to form defensive flanks. The following may be useful for this purpose:-

(a) On the Right:-

GUN TRENCH SWITCH from POSEN ALLEY to CHALK PIT ALLEY, thence CHALK PIT ALLEY to TRIANGLE POST.

(b) On the Left:-

HAY ALLEY and Spoil Heap round HAY DUMP.

4. (a) Each Battalion has an Echelon of Officers and men (averaging 70 other ranks per Battalion) in MAZINGARBE, such as Lewis Gun Classes, Signallers classes, Musketry Classes, Drums, Prisoners etc.

In the event of a hostile attack, these Echelons and any officers and men of 68th Field Coy. R.E. in MAZINGARBE such as resting section, attached Infantry or mining platoon, will be used if necessary for the defence of MAZINGARBE as detailed below.

(b) The line to be taken up is one from Right Boundary of Brigade at L.29.b.75/80 to the Avenue at L.23.b.45/10 to Left Boundary of the Brigade at L.17.c.8/2.

The above line is only approximate - it depends upon the ground as to where the troops are actually placed.

The defence of MAZINGARBE is the reason for the Echelons being placed there.

Defence Line

-11-

4.(c) (1) The Echelon of 7th South Staff Regt will hold the right of the above line from the road at L.29.b.75/80 (inclusive) to the Avenue at L.25.b.45/10 (exclusive).

(II) The Echelon of 9th Sh. Foresters will hold the left of the above line from the Avenue at L.25.b.45/10 (inclusive) to Left Boundary of the Brigade at L.17.c.8/2, with a few men in Southern part of NOVELLES South Keep.

(III) The Echelon of 6th Lincoln Regt and the officers and men of 68th Field Coy R.E. will be held in Reserve at Southern Huts, and will be under orders of the Brigade.

(d) All stragglers passing through the above line will be added to the numbers manning the line.

(e) The above positions will be taken up on the order being received from Brigade H.Q. - "Move to Battle Position". H.Q.'s of O.C. 7th S. Staff R. and 9th Sh. Foresters Echelons will then be established at Rear H.Q. Support Batta in the Avenue. O.C. 6th Lincoln R Echelon and O.C. 68th Field Coy R.E. will each send a Liaison officer to Brigade Hd. Qrs, and will themselves establish their H.Q. in Southern Huts.

Units will report when they are in position as detailed in para.3.

(f) (1) Officers will be detailed to accompany the Echelons at the rate of one officer to every 30 men. Officers over and above this will go back to Transport Lines at NOEUX LES MINES.

(II) The Battalion Instructors (Vide S.S.152 p.12) will go back to Transport Lines at NOEUX LES MINES.

(III) Officers in charge of Echelons and Field Coy R.E. at MAZINGARBE must keep Brigade H.Q. informed as to where they can be found, so that when they are ordered to carry out the above, they can be found quickly.

(IV) Officers Comdg Battalions and Field Coy R.E. will ensure that they have sufficient S.A.A. in bulk for every man to be issued with an extra 100 rounds S.A.A.

(V) Dress- Fighting Order. This will be kept made up in billets.

(VI) Echelons must be ready to move to Battle Positions at one hours notice. Not more than 10% of the officers and men who will constitute the parties detailed above, will be absent from MAZINGARBE at any one time. (This does not apply to 68th Field Coy R.E.).

Map "A" 356

Ref Map "GORRE" sheet 1:20,000

SECRET

Left Battⁿ:
Violet

Right Battⁿ

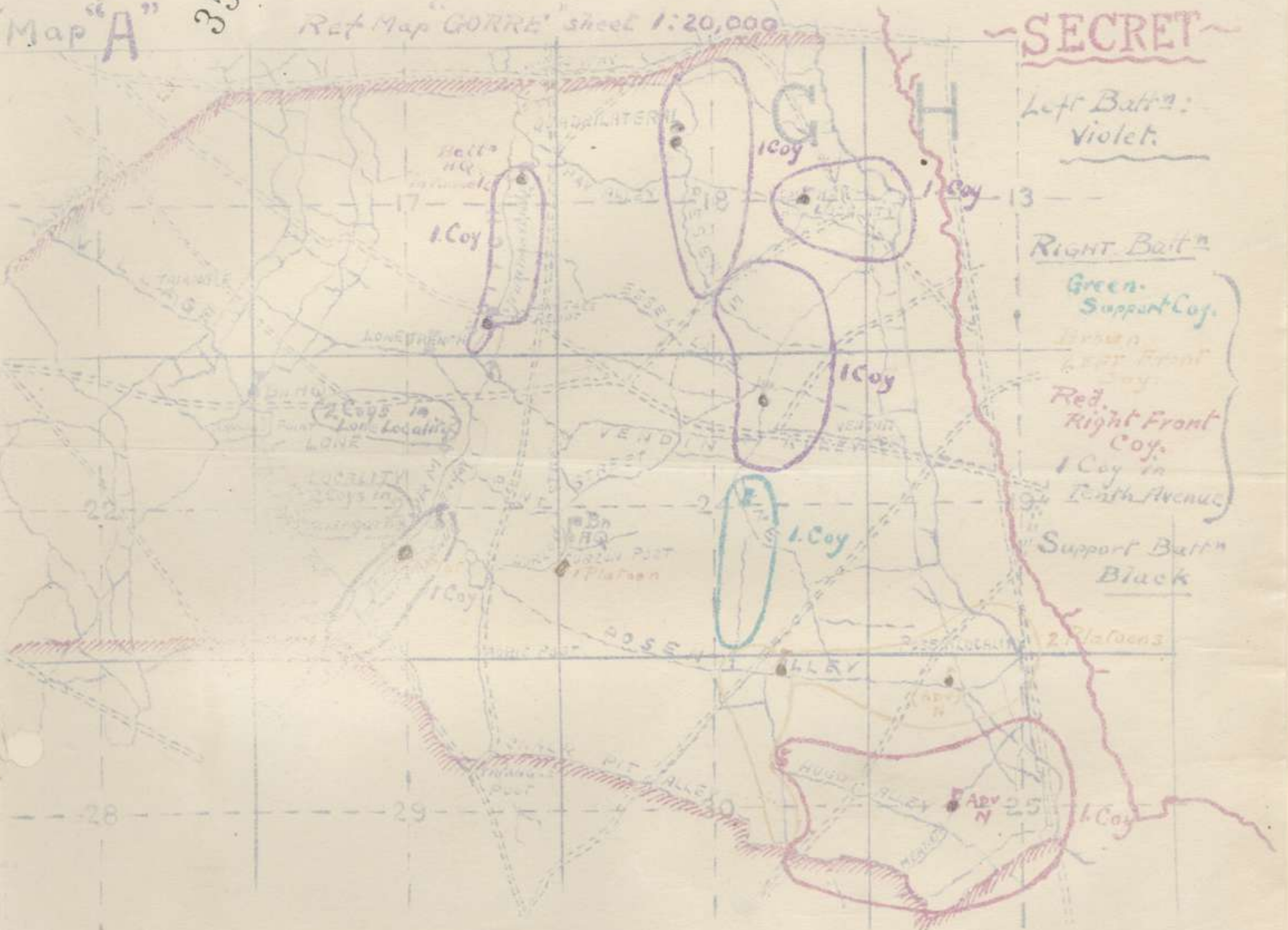
Green Support Coy.

Brown Left Front Coy.

Red Right Front Coy.

1 Coy in
Leath Avenue

Support Battⁿ
Black



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SECRET.33rd Inf. Brigade No. S.7/277/1TO..... *3rd Aus. Infantry Coy*

Herewith sections - F, G & H to Part III of
Right Infantry Brigade Defence Scheme, also Appendices
I, II, III, IV, V, VI.

Map 'C' showing dispositions of Machine Guns and
S.O.S. Lines is also enclosed.

Please acknowledge receipt.

Section I (part III)
follows later.



20th April 1918.

Brigade Major, 33rd Infantry Brigade. Major.

Copies to all recipients of
Right Inf. Bde Defence Scheme.



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SECRET.

Copy No.....

To.....

33rd Inf. Bde No.S.7/277/4.

Reference Right Infantry Brigade Defence Scheme issued under this office No.S.7/277 dated 16/4/18.

PART III - E. add now Paragraph :-

" 5. In order to facilitate Battle equipping of the Reserve Brigade, Battle Equipment will be distributed at Coy. and Battalion H.Q. in the Billeting Area as follows.

These Battle Stores will be properly guarded by Units and handed over on relief; Adjutants will carefully check on relief.

ARTICLES.	BRACQUEMONT	HERSIN	HAZINGARBE.
Sand-bags.	1,200	1,200	1,200
Large wire-cutters.	25	25	25
"P" Grenades for Smoke Barrage.	50	50	50
Rifle Grenade No.30.	800	800	800
S.A.A.	20 boxes.	20 boxes.	20 boxes.
Aeroplane Flares (1 per man).	600	600	600
S.O.S. Grenades for) Platoon & Coy.H.Q.)	24 (2 boxes.)	24 (2 boxes.)	24 (2 boxes.)

ACKNOWLEDGE. ✓

For home

2nd May 1918.

Brigade Major, 33rd Infantry Brigade.

Major.

Copies to all recipients of
Right Inf. Brigade Defence Scheme.

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PART III (Contd)F. MINING--

1. The front of HULLUCH North sub-section has been an active one as regards mining on both sides. For some time, however, mining has been inactive.

Both sides have definite systems, and any resumption of active mining on our part will certainly lead to mining activity by the enemy.

2. The 3rd Australian Tunnelling Coy is at present working on the HULLUCH Section.

The Left Battalion holds on its charge a certain number of oil lamps for lighting tunnels should the electric light break down. *(See also Part III H Para 5)*

3. The Tunnelling Coy is responsible for gas protection of mines and dugouts occupied by them. Subways and infantry dugouts are the responsibility of Infantry Battalions.

G. GAS.REPORTS.

1. (a) All projector or cloud gas attacks or any gas shelling will be immediately reported to Brigade H.Q.

(b) In the case of projector or cloud gas attacks, the report must state:-

1. Area affected
2. direction and strength of wind
3. direction from which gas has come.

(c) In the case of gas shelling, the report must state:-

1. number)
2. calibre) of gas shells.
3. type)
4. location of shelling.
5. If accompanied by H.E.

2.

GAS ZONES.

(a) The 'Alert' Zone will be the country East of a line drawn between the following places:-

AIX NOVLETTE - GRENAY - LES BREBIS - MAZINGARBE - NOYELLES - all exclusive.

In this zone the small Box Respirator will always be carried at the 'ALERT' position.

(b) The READY Zone will be the belt of country between the Western limits of the Alert Zone (as defined above) and the following points:-

COUPIGNY - HERSIN - NOEUX LES MINES - all exclusive

In this Zone the small box respirator will always be carried.

AUSTRALIAN WAR MEMORIAL

RCDIG1017217

(GAS)-Contd-

(c) The PRECAUTIONARY Zone will be the ground between the Western limits of the Ready Zone (as defined above) and the following points:-

FRESWICOURT (inclusive) to RANCHICOURT (inclusive) to HOUDAIN (exclusive) to ERUAY (inclusive).

In this zone the small box respirator must be carried.

GENERAL.

3. (a)

All officers and Gas N.C.Os must have a copy of S.S.193 "Standing Orders for Defence against Gas", also of S.S.534 - "Defensive Measures against Gas Attacks", and the Standing Orders as laid down in Appendix IV thereto should be made known to all ranks.

(b) All ranks will carry their small Box Respirators in the ALERT position on the chest. Nothing slung across the chest that will interfere with the immediate use of the respirator.

(c) Sentries will be posted by day and night as follows:-

- (I) On all working parties.
- (II) On all Strombos or other horns.
- (III) On every large dugout, or group of small dugouts, during occupation - 10 men or more must have a sentry.
- (IV) On every H.Q. and Signal dugout.

(d) Gas Blanket coverings on dugouts will be inspected daily.

(e) Small box respirators will be inspected daily.
(This applies to the READY in addition to the ALERT Zone).

(f) STROMEOS Horns will only be sounded in the event of cloud gas.

PART III (Contd)

H. TUNNELS.

- 1. Sentries must be posted at all exits throughout the tunnel system.
- 2. The Alarm will be sounded by means of Hand and Electric Bells. The following signals will be used :-

- 1 Long Gas.
- 2 " Alarm (S.O.S).
- 3 " Stand to.
- 4 " Officer wanted at post.
- 6 Short Test.

3. Gas Protections

- (a) Each Tunnel entrance will be provided with two blanket curtains(or doors).
- (b) The tunnel system will be divided into areas by gas blankets (or doors) at each main junction.
- (c) Gas blankets must be inspected daily and kept moist by Battalion and Company Gas N.C.Os.
- (d) Practice gas alarms will be carried out periodically.
- (e) Fires will be kept ready laid in braziers at the foot of each staircase.
- (f) Strombos horns will be kept at, or near, all forward exits.
- (g) Gas blankets will be kept permanently down in shafts out of use. (These must not be neglected).
- (h) Nothing will be placed on or near blanket or door which will prevent its being quickly adjusted.
- (j) Plugs will be always kept close to all ventilating shafts.
- (k) No telephone wires must pass through the inside of a blanket frame.
- (m) Battalions will be responsible for warning officers and men of other units in their sub-section.

4. No fires are allowed in the tunnels.

5. The Battalion in the Tunnels has on its charge a certain number of oil Lamps. These will be kept at Battalion and Coy.H.Q. for use if the electric light fails. The Battalion is responsible that these lamps are kept in working order.

6. Permanent Tunnel Wardens are provided by the Infantry and work under the Tunnelling Company R.E.
Their duties are:-

- (a) To keep tunnels clean, scraping floors and baling out sumps.
- (b) To act as tunnel police and see that tunnel orders are obeyed.
- (c) To see Lamps are in order. This includes oil lamps.
- (d) To report any disregard of orders to the nearest Company Office and to O.C.3rd Australian Tunnelling Coy.
- (e) To see that sanitary rules are not disobeyed.

7. In event of attack personnel of Tunnelling Coys come under orders of O.C.Left Battalion.

The forward portion of the HULLUCH Tunnel will be demolished in certain events. Detailed separate orders have been issued to all concerned.

APPENDIX - 1.
=====

S.O.S. SIGNAL POSTS.
=====

(a) RIGHT Battalion-

<u>Front Line</u>	H.25.d.15/90.
"	H.25.b.02/85.
<u>Adv Coy.H.Q.</u>	H.25.a.50/80
"	H.25.a.50/00.
<u>Company H.Q.</u>	G.30.b.45/30.
"	G.30.b.5/9.
"	G.24.d.25/80.
"	G.23.d.25/85
<u>Battn H.Q.</u>	G.24.c.05/85.

(b) LEFT Battalions-

<u>Front Line</u>	H.13.c.20/75.
"	H.13.a.15/15.
"	H.13.a.00/04.
<u>Coy H.Q. and Reserve Line Posts.</u>	} G.24.b.35/75
	} G.18.c.90/75
	} G.17.d.55/15.
<u>Battn H.Q.</u>	G.17.d.75/15. ? (67675-15)

(c) Support Battalion

<u>Battn H.Q.</u>	G.22.b.85/85.
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APPENDIX II.
=====

Chain of responsibility for passing on
any S.O.S., GAS or TANK Call, also
Gas Shelling.

Company Commander sends to the following in the
order named -

- (1) Battalion H.Q.
- (11) Companies on flanks.

Battalion H.Q. sends to the following in the
order named :-

- (1) Batteries covering sub-section.
- (11) Artillery Group.
- (III) Brigade H.Q.
- (IV) Battalions on flanks.

Brigade H.Q. sends to the following in the order
named:-

- (1) Artillery Group.
- (II) Division.
- (III) Flank Brigades.

All means of communication will be used.

In every signal office there will be hung a list
showing the operator to whom the various calls are to be
sent, and the order of their priority.

SECRET.

APPENDIX III.

Medical Arrangements in the Right Brigade Section.

1. Location of Medical Posts and Stations.

- (a) Regimental Aid Posts. G.24.a.2.0.
G.18.a.0.3.
- (b) Aid Posts in Localities. LONE LOCALITY. G.17.d.2.1.
(G.23.c.2.8. when completed.)
PHILOSOPHE LOCALITY. G.20.a.4.2.
- (c) Relay Posts and Walking Wounded Collecting Station. G.23.b.6.9.
G.22.b.2.2.
- (d) Advanced Dressing Station. G.20.a.4.2.
- (e) Walking Wounded Post. MAZINGARBE, L.29.b.1.2.
- (f) Ambulance Car Post. FOSSE 2. L.34.a.1.8.
- (g) Main Dressing Station. RUITZ, K.20.a.5.8.

2. Scheme of Evacuation.

(a). Stretcher Cases.

R.A.M.C. Bearers are stationed at or in close proximity to each of the above Aid Posts. Casualties are evacuated from Aid Posts by R.A.M.C. Bearers via the Relay Posts to the Advanced Dressing Station by hand carriage, wheeled stretchers trench tranways and light railway.

From the Advanced Dressing Station sick and wounded (except S.I.W., N.Y.D., Gassed etc. cases) requiring treatment in a Casualty Clearing Station are, whenever possible, evacuated to a C.C.S. direct in Motor Ambulance Cars. All other cases are conveyed from the Advanced Dressing Station by Motor Ambulance cars to the Main Dressing Station.

In the event of heavy casualties occurring at any time on the right of the Section, sick and wounded can be evacuated as an alternative method to the A.D.S. at FORT GLATZ,, G.35.b.2.7.

(b). Walking Wounded Cases.

Casualties are evacuated from Aid Posts via the Relay Posts to the Advanced Dressing Station. Directing flags are in position between the Advanced Dressing Station and the Walking Wounded Post.

Walking Wounded after treatment at the Walking Wounded Post will be directed to the Ambulance Car Post when they will be conveyed by Motor Ambulance Cars to the Main Dressing Station.

Stragglers and men who are neither sick nor wounded will be handed over to the nearest Stragglers Post.

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APPENDIX IV.
=====

Reserve Rations, Ammunition, Grenades and Stores to be maintained in Localities, Keeps and M.G. Emplacements in the Right Brigade Section, and arrangements made for their safe custody.
=====

Locality, Keep or M.G. Emplacement:	Map Reference.	Unit responsible for custody:	Quantities to be maintained.
LONE LOCALITY. Northern Sap Redoubt.	G.23.c.7.3.	Support Battalion (2 caretakers, Northern Sap Redoubt)	See List "A" on reverse.
LONE LOCALITY. Howsons Post.	G.23.a.1.7.	Support Battalion. (2 Caretakers, Howsons Post).	See List "B" on reverse.
PHILOSOPHE LOCALITY. Corons de Rutoire.	G.14.d.2.2.	Pioneer Battalion.	S.A.A. 100 bxs. Grenades 100 bxs. Ground Flares, 1 case.
PHILOSOPHE LOCALITY Command Post.	G.19.b.5.2.	Pioneer Battalion.	See List "C" on reverse.
RIGHT LINE BATTN. Battalion H.Q. Right Co. H.Q. Centre Co. H.Q. Left Co. H.Q. Co. H.Q. Supp.	G.24.c.1.8. G.30.b.4.3. G.30.b.5.9. G.24.d.2.8. G.23.d.2.8.	Right Line Bn. do. do. do. do.	40 Iron Rations. 100 Iron Rations. 100 Iron Rations. 100 Iron Rations. 100 Iron Rations.
LEFT LINE BATTN. Battalion H.Q. Line Co. H.Q. ht Supp. Co. H.Q. Left Supp. Co. H.Q. Reserve Co. H.Q.	G.17.b.7.1. G.18.b.8.0. G.24.b.3.7. G.18.a.9.3. G.17.d.5.1.	Left Line Bn. do. do. do. do.	40 Iron Rations. 100 Iron Rations. 100 Iron Rations. 100 Iron Rations. 100 Iron Rations.
Unoccupied M.G. Emplacements in Village Line. V.24 - V.26. (both inclusive.)	"	Support Battalion. Caretakers in Howsons Post.	In each Emplacement. 10 bxs. S.A.A. 2 glls. Water for Gun, 1 Pivot Mounting, 1 Pick, 1 Shovel.
Unoccupied M.G. Emplacements in GREY- VERMILLES Line. G.24 - G.28. (both inclusive.)	"	Brigade H.Q. Caretakers at KINGSBRIDGE.	In each Emplacement. 5 bxs. S.A.A. 2 glls. Water for Gun. 1 Pivot Mounting. 1 Pick. 1 Shovel.

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LIST "A".
=====

LONE LOCALITY. (G.23.c.7.3.)

S.A.A.	100 boxes.	Shovels	100.
No. 5 or 23 Grenados.	33 "	Picks.	25.
No. 20 or 24 "	17 "	Bill Hooks.	1.
Red Ground Flares.	1 case.	Wire cutters.	3.
S.O.S. Signals.	15.	Sandbags	500.
V.P.A. 1" White.	5 boxes.	Barbed Wire.	500 coils.
V.P.A. 1" Colour of SOS.	50 rounds.	Screw Pickets.	700 long.
Iron Rations.	200 rations	do.	1,400 short.
Empty Water Tins.	500.	Loophole Plates.	5
Water Tanks to hold	200 gallons.		

LIST "B".
=====

LONE LOCALITY. (G.23.a.1.7.)

S.A.A.	100 boxes	No. 5 or 23 Grenados.	17 boxes.
Red Ground Flares.	1 case.	No. 20 or 24 "	8 boxes.
Iron Rations.	200 rations.	Water Tins.	50.

LIST "C".
=====

PHILOSOPHE LOCALITY. (G.19.b.5.2.)

S.A.A.	400 boxes.	Water Tanks to hold	1,000 galls
No. 5 or 23 Grenados.	200 boxes.	Shovels.	500.
No. 23 Grenados.	150 boxes.	Picks	100.
(with Rods & Cartridges).		Bill Hooks.	10.
No. 20 or 24 Grenados.	50 boxes.	Wire cutters.	10.
Red Ground Flares	3 cases.	Sandbags.	2,000.
S.O.S. Signals.	15.	Barbed Wire.	1,200 coils
V.P.A. 1" White.	5 boxes.	Screw Picks.	2,000 long.
V.P.A. 1" Red.	50 rounds.	do.	4,000 short.
Iron Rations.	2,880 rations.	Loophole Plates.	20
Empty Water Tins.	500.		

Reserve Water Tanks each containing 400 gallons are established as under

QUARRY DUMP, 1 Tank, G.23.b.9.7.

VILLAGE LINE, 1 Tank, G.23.c.5.8.

These are for use in emergency only. They are not fed by the pipe line but are kept filled under Brigade arrangements, water being sent up on the light railway from KINGSBRIDGE whenever necessary.

The following quantities of Reserve, Rations, Ammunition, Grenados, and Stores are maintained by the H.G. Battalion.

In all occupied M.G. Emplacements.

1 Inventory Board.	1 box Iron Rations.
10 Belt Boxes and Belts filled.	1 Blanket saturated with anti-gas solution.
10 boxes S.A.A.	1 Waterproof Sheet.
2 boxes No. 5 Grenados.	2 Shovels.
1 pkt Very Lights (White 1")	2 picks.
1 tin anti-gas solution.	50 Sandbags.
2 galls. Water for Gun.	Weather Cock and Alarm Signal.
2 galls. Drinking Water.	1 Belt Box and belt filled A.P. S.A.A.
(2 days supply).	

SECRET.APPENDIX V.

Arrangements for Supply of Ammunition, Grenades, etc.
in the Right Brigade Section.

=====

1. DUMPS.

- (a). Divisional Main Dump. BALLY BUNION Dump, L.3.c.3.2.
- (b). Brigade Main Dump. KINGSBRIDGE, G.20.c.2.3.
(includes L.T.M. ammunition.)
- (c). Brigade Advanced Dumps.
- | | |
|--------------------------|-------------|
| Right. | G.30.d.5.9. |
| Centre. | G.23.b.4.5. |
| (includes L.T.M. Ammuna) | |
| Left. | G.17.b.9.2. |
| (includes L.T.M. Ammun:) | |
- (d). Battalion Dumps.
- | | |
|------------------|-------------|
| Right. | G.24.c.0.7. |
| Left.) | G.18.a.9.2. |
| ") | G.17.d.8.2. |
| ") | G.17.d.9.9. |
| Support. | G.17.c.9.1. |
| Support Reserve. | L.23.d.5.5. |
| Machine Gun) | |
| Battalion.) | G.23.d.5.5. |

2. Units in the line will draw S.A.A., L.T.M. Ammunition, Grenades on demand from the Advanced Brigade Dumps. These are replenished from the Main Brigade Dump under Brigade arrangements.

Authority must be obtained from Brigade H.Q. to draw from the Main Brigade Dump direct

3. The table on reverse shows the quantities of ammunition, Grenades etc. maintained at Brigade, Battalion, M.G. Battalion, L.T.M. Battery and other Trench S.A.A. Grenade etc. Dumps in the Sector.

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ESTABLISHMENT.

of S.A.A. and Trench Munitions to be maintained at Brigade, Battalion, M.G. Battalion,
L.T.M. Battery and other Trench, S.A.A. Grenade etc. Dump.

	Boxes S.A.A. for Rifles & Lewis Guns.	Boxes S.A.A. for M.G.	Grenades No. 5, 23 or 36.	Grenades No. 20, 24 or 35.	3" Stokes Shells.	S.O.S. Signals.	1" V.P.A. White.	Ground Flares.	W.P.A.
Bde. Main Dump.	350.	100	6,000	3,000	2,500	75	3,000	600	3,000.
Bde. Advanced Dumps.	90 each.	-	48 each.	250 each.	-	10 each.	450 each.	250 each.	-
Battalion and L.T.M. Dumps forward of Bdo. Main Dump.	100 per Bn.	-	60 per Bn.	250 per Bn.	Total of 2,500.	10 per Bn.	450 per Bn.	750 per Bn.	-
M.G. Battalion Dump.	-	160	-	-	-	-	-	-	-

This Establishment includes all Ammunition etc. in Dumps and stores except that in Locality Dumps, Strong Points, M.G. Emplacements etc. as laid down in Appendix IV.

9/2/41

INSTRUCTIONS REGARDING THE USE OF THE LIGHT
RAILWAY IN THE RIGHT BRIGADE SECTION.
=====

1. Under normal conditions all rations and stores (S.A.A. Grenades, R.E. Material and Mining Material) will be sent up to the Trenches by the Light Railway. Trucks on the NORTHERN LINE are drawn by Tractor, trucks on the SOUTHERN LINE by mules.

Trucks will be loaded up at KINGSBRIDGE STATION under the orders of the R.T.O. and will be off-loaded at either:-

Northern Line.

- (a) POSEN DUMP.
- (b) VENDIN DUMP.
- (c) QUARRY DUMP.
- (d) HAY DUMP.

Southern Line.

- (a) CHALK PIT DUMP.
- (b) HUGO DUMP.
- (c) GUN DUMP.

2. All units in the Brigade Section except Artillery will send in to Brigade H.Q. by 11 a.m. daily the number of trucks required that night stating what sort of stores each Truck is required for, i.e. rations, ammunition etc. and to which dump the loads are to be delivered.

On this information, the Staff Captain, will detail the number of mules, drivers, and pushing parties required and will inform the R.T.O. of the total number of trucks required and their destination.

For each truck on the SOUTHERN LINE, 1 mule, 1 driver and 3 men will be detailed and for each truck on the NORTHERN LINE proceeding beyond POSEN DUMP 3 men only will be detailed.

3. All rations and material will be sent up to reach KINGSBRIDGE STATION $\frac{1}{2}$ hour before departure of train.

Mules, drivers and pushing parties will report to the R.T.O. or O.C. Train at the same hour and place.

Trains will depart at times fixed by the R.T.O. in conjunction with the Staff Captain and notified to units.

4. Trucks will be formed up in their sidings and will be sent up under the orders of the R.T.O. in the following order:-

Northern Line.

- 1st HAY DUMP.
- 2nd QUARRY DUMP.
- 3rd VENDIN DUMP.
- 4th POSEN DUMP.

Southern Line.

- 1st GUN DUMP.
- 2nd HUGO DUMP.
- 3rd CHALK PIT DUMP.

An interval of 20 yards will be maintained between trucks drawn by mules. Any load or party arriving at KINGSBRIDGE STATION late will wait until the R.T.O. reports the line clear.

5. One Transport Officer will be detailed daily to act as O.C. Train. In the event of the tractors failing on the NORTHERN LINE and mules having to be used, he will take charge of the train until it arrives at POSEN DUMP and will see that the mules are unhooked there and taken to a place of safety until the trucks return to POSEN DUMP when he will supervise their return to KINGSBRIDGE.

6. The R.T.O. is entirely responsible for station discipline and the Foreways Company for the upkeep of the line and provision of tractors on the NORTHERN LINE.

7. Unit Commanders are responsible for meeting their trucks at their respective off-loading dumps and that stores etc. are dumped in their allotted places. All trucks will be returned. Returning empty trucks should be utilised for bringing back salvage.

Only trucks marked with the Red Cross may be used for the carriage of bodies.

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SECRET.

33rd Infantry Brigade No.S.7/277/3.

To All Recipients of 33rd Inf: Bde: DEFENCE SCHEME.

Herewith Part III - "I, COMMUNICATIONS," to Right Infantry
Brigade DEFENCE SCHEME, sent under this office No.S.7/277 dated
18/4/18.

Please Acknowledge Receipt.

R.H. Blay *Cat*
for

Major,
Brigade Major,
33rd Infantry Brigade.

30th April 1918.



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Part III (Contd)

I. COMMUNICATIONS.

1. Cables.

Telegraph and Telephone communication throughout the Brigade Area is supplied by the buried system as shown on the attached plan, controlled by I Corps Signals.

Area Officers concerned :-

- Lt. LEWIS, R.E. No.6 Area Signal Det: MAZINGARBE.
- Lt. HOPKINSON, R.E. No.5 Area Signal Det: MAZINGARBE.

2. Power Buzzer.

Power Buzzers and Amplifiers are at the following stations:-

- B.A.3 (Right Battn: H.Q.) (G.24.c.00/80).
- NORTHERN SAP REDOUBT. (Adv:Bde" H.Q)(G.23.c.80/30)
- No.1 Relay Post. (G.26.c.40/70).

The Amplifier at B.A.3 is used for interception of our own Signals when not otherwise employed.

3. Visual.

The Brigade receiving station is at G.19.b.70/25 (B.A.20) which is in telephonic communication with Brigade Headquarters.

The chain of Visual communication is as follows:-

- A.M.99, A.M.44 & B.A.24 working to B.A.3
- B.A.3, B.B.1, B.A.106 & NORTHERN SAP REDOUBT } working to (B.A.20 & R.L.(Rutoire Farm - Left (Brigade).
- B.A.20 working to N.M.(Div: Receiving Station NEOUX-LES-MINES) & B.B.9 (Brigade H.Q.)

4. Pigeons.

Six pairs of pigeons are drawn daily by Brigade Signals from the pigeon loft, MAZINGARBE and are distributed - two pairs to each Battalion. Weather permitting, all birds are flown back with practice messages.

5. Despatch Runner Posts.

There are two Brigade relay runner posts at No.1 (at G.26.c.4/7) and No.2 (at B.A.106 - G.22.b.9/8). The posts are handed over to the Battalion runners at No.2 post.

The following schedule of posts is in operation :-

RIGHT & LEFT BATTALIONS.

A	A.	B.	B.
Leaves Brigade.	Arrives No.2 Post.	Leaves No.2 Post.	Arrives Battalions.
7- 0.am.	8-15.am.	8-15.am.	8-30.am.
11- 0.am.	12-15.pm.	12-15.pm.	12-30.pm.
1-15.pm.	2-30.pm.	2-30.pm.	2-45.pm.
8- 0.pm.	9-15.pm.	9-15.pm.	9-30.pm.
B	B	A	A
Leaves Battalions.	Arrives No.2 Post.	Leaves No.2 Post.	Arrives Brigade.
8- 0.am.	8-15.am.	8-15.am.	9-30.am.
12- 0.noon.	12-15.pm.	12-15.pm.	1-30.pm.
2-15.pm.	2-30.pm.	2-30.pm.	3-45.pm.
9- 0.pm.	9-15.pm.	9-15.pm.	10-30.pm.

Posts marked 'A' are run by Brigade Orderlies; those marked 'B' are run by Battalion Orderlies.

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5. Despatch Runner Posts. (Contd)

<u>MAZINGARBE</u>	
Battn: Echelons, M.G.CO., L.T.M.Bty, Field Co., etc., Leaves Brigade.	Arrives Brigade.
9-30 am.	10- 0 am.
4- 0 pm.	4-30 pm.
9- 0 pm.	9-30 pm.

6. Listening Set. There is an I.T.Set (G.18.a.15/75) operating in the area, controlled by I Corps Signals.

7. A diagram is issued herewith shewing the various means of communications between the various units; also a list is issued interpreting the position calls on the diagram :-

POSITION CALLS.

	<u>Map Reference.</u>	<u>Position Call.</u>
33rd Infantry Brigade H.Q.	L.23.c.80/80.	B.B.9
59th F.A.Brigade ...	L.23.d.20/80.	B.A.42.
Right Battn: H.Q. ...	G.24.c.00/80.	B.A.3.
Left Company	G.24.b.20/00.	B.A.18.
Centre do. ...	H.25.a.58/80.	A.M.46.
Right do. ...	G.30.b.40/40.	A.M.99.
Reserve do. ...	G.23.d.30/85.	
Left Battn: H.Q. ...	G.17.b.75/25.	B.B. 1.
Right Company ...	G.24.b.35/60.	B.A.24.
Left Company ...	G.18.a.80/22.	B.B.16.
Reserve do. ...	G.17.d.50/10.	
Support Battn: H.Q.	G.22.b.92/88.	B.A.106.
Company H.Q. ...	G.17.d.02/10.	B.B. 2.
do. ...	G.23.b.50/85.	
Brigade Visual Station	G.19.b.85/10.	B.A. 20.
R.T.O. Kingsbridge Station ...	G.20.c.25/40.	B.B. 25.
Gerrard O.P. Exchange.	G.27.c.45/95.	A.M. 36.
Machine Gun Post ...	G.23.d.99/70.	B.A. 12.
do. ...	G.18.a.91/18.	B.B. 18.
do. ...	H.13.a.10/20.	B.B.20.
do. ...	G.24.d.25/75.	B.A. 7.
I.T. ...	G.18.a.65/75.	B.B. 32.
18 Pdr Batteries. A/59 ...	(G.28.a.14/42 (4)	A.M. 17.
	(G.22.d.86/60 (2)	B.A. 11.
B/59 ...	G.27.b.60/30 (6)	A.M.30.
C/59 ...	G.25.b.47/63 (6)	BTY No position call.
4.5" How: Battery. D/59 ...	(G.14.c.95/65 (4)	B.B.24.
	(G.22.b.10/15 (2)	B.A.19.
Brigade on the Left.	G.13.d.21/55.	B.B.10.
Brigade on the Right.	G.28.b.05/50.	A.M.85.
Right Battn: of Brigade on		
Left.....	G.11.d.60/00.	B.C.45.
Left Battn: of Brigade on		
Right.....	G.30.d.80/20.	A.L.97.