

**AWM4**  
**Australian Imperial Force unit war diaries,**  
**1914-18 War**

Tunnelling & Survey

**Item number:** 16/4/24

**Title:** 3rd Australian Tunnelling Company

February 1918



AWM4-16/4/24



**CONFIDENTIAL.**

ORIGINAL.  
DUPLICATE.  
TRIPLICATE.

3 <sup>RD</sup> AUSTRALIAN TUNNELLING COY.	
No.	
Date	.....

356

Australian Imperial Force.

**WAR DIARY**

OF

*3<sup>rd</sup> Aust. Tunnelling Coy.*

FOR

*February 1918.*

Signature of Officer compiling

*B Shaw Lt.*

Signature of Officer Commanding



**WAR DIARY**  
or  
**INTELLIGENCE SUMMARY.**

(Erase heading not required.)



Army Form C. 2118.

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Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

Place	Date	Hour	Summary of Events and Information	Map References : Sheet 44a.	Remarks and references to Appendices
	1918.		<p>COMPANY STRENGTH 1-2-18: A.I.F., 27 Officers 648 O.R's. C.I.F. and B.E.F. attached, 6 Offrs 458 O.R's.</p> <p>The area worked over by the Company embraced the LENS - LOOS - HULLUCH - ST.ELIE HAIRPIN and CUINCHY Sectors.</p> <p><u>WORK in PROGRESS</u>:- Stripping and duckboarding in Tunnels. H.Q. dugouts in Curzon Street. Twin T.M.E. Cutoff Trench, and subways LENS Sector. Laying rails, and camouflaging all spoils HILL 70. Work of detachments at CUINCHY and NIEPPE.</p> <p><u>CORRESPONDENCE R &amp; I</u>:- From the C.E. 2881/A instructing O.C. 30th Labour Corps to detail 75 men to report to the H.Q. 3rd Australian Tunnelling Coy. on the 4th inst.</p>		Appendix 1
			<p><u>WORK in PROGRESS</u>:- Extending Mine Rescue Station Dugout; putting in all racks, shelves etc., and transferred all "Proto" gear from No 1 Stn HULLUCH. Placed same under one control. At VERMELLES the entrance to FEATHAM Tunnel was repaired. Stripping and regrading Mine Lateral from 500' to 765' Mark. This work was then suspended. Stacking all timber and tools in storerooms. The whole system salvaged and cleaned up throughout, and all tramline ballasted. Proto Incline tamped up. All bags of spoil taken from galleries. On HILL 70 Sector a "loopholed block" put in Reserve Line O.P. and progress effected at subways and at LENS. The work of Detachments was delayed at CUINCHY by excessive wet conditions, necessitating the cutting of sumps in Dugout Systems. At NIEPPE the detachment opened out for Nos 1 and 2 M.G. Series, also dugout for Signallers.</p> <p><u>CORRESPONDENCE R &amp; I</u>:- Received from the C. of Mines First Army No 493, Ref. "Dimensioned Drawings of Bridges".</p>		Appendix 2
			<p><u>WORK COMPLETED</u>:- Work of Detachment in CUINCHY area. Dugout in St. Elie Tunnel (G.18a 72.85).</p> <p><u>WORK in PROGRESS</u>:- Chiefly in Subways, and the Battn. H.Q. Dugouts at Curzon Street.</p> <p><u>CORRESPONDENCE R &amp; I</u>:- From 1st Can. Divn G.4/48 Ref. Change in Locality of certain M.G. and 6" T.M.E's.</p> <p>" " " " " 47 " Spoils party of 36 O.R's to report for work on Canteen.</p> <p>Canadian Div. Engrs 1/0 Ref. Working Parties from 1st and 2nd Can. Field Coys 1st Can. Divn G.4/47 Ref. Additional Party of 18 O.R. to report for work on Hythe.</p>		Appendix 3 " 4 " 5 " 6

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(10340) Wt W5300/P713 750,000 3/18 E 688 Forms/C2118/16



3RD  
AUSTRALIAN  
TUNNELLING 60Y.  
No. 110  
P/M

Army Form C. 2118.

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WAR DIARY

or

INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Summary of Events and Information

Map References : Sheet 44a.

Remarks and references to Appendices

Place Date Hour

Feb. 4.

WORK in PROGRESS:- Opened up shaft to ventilate Battn Cockhouse (St. Elie Tunnel). Detachment reported back to Tunnel Sections. At HILL 70 putting in special sets, and laying rails to the working faces. At O.P. Hurdle Trench, commenced rise for Periscope. In LENS Sector the Subway faces were pushed ahead, also work at T.M.E. in Cutoff Trench. CORRESPONDENCE R. & I.:- No 2098 from C.E. 1st Corps. Instructions to commence proposed Command Post under Philosophe Fosse (G.19b 45.15).

Appendix 7

Feb. 5.

WORK in PROGRESS:- Repairs to Trench Mortar Empt. (St. Elie Tunnel). Maintenance of fairways and Listening. Dugouts for St. Georges Tunnel, and Carzen Street. At HILL 70 continued heavy shelling, interfered with routine work at subways. The new O.P. in Hurdle Trench was crumpled in and repairs had to be effected. At LENS Sector the Tunnel Face off Incline from Mason's House Outpost off Carp Trench was considerably advanced. At PONT DE NIEPPE under the XVth Corps M.G.E. faces were advanced (Nos 1 and 2 Series). COMPANY ORDERS 629:- The following casualty was reported No 7703 Sapper RUSSELL M. Wounded on 3-2-18 (Remaining on Duty). Admitted 5-2-18 to the No. 6 C.C.S. Lieut KENNEDY A.L. suffering from Pneumonia contracted while on duty at the First Army Mine School HOUCHIN.

Appendix 8

CORRESPONDENCE R. & I.:- G1648 from the 3rd Can. Inf. Bde Ref. Spoils parties, also despatches from H.Q. Canadian Div Engrs Ref. 6 facemen and 18 spoilmen for work on an additional face in HYTHE TUNNEL. E.486 of the Mine School, and despatch from No. 6 C.C.S. agent Lt A.L. KENNEDY. Memo from 33rd Inf. Bde re meeting of Officers. 3rd Can. Inf. Bde Operation Order 222 re spoil parties.

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" 10  
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Feb. 6.

WORK in PROGRESS:- At permanent subways Routine as above. At LENS the programme of work on dugouts at Cowley, Conductor, and T.M.E. at Easter Trenches was temporarily suspended. Carp Trench cleared of debris following strafe, and work carried on in this Sector. Hythe Subways were filled with enemy gas, and had to be cleared before continuing faces. Stripping existing ~~XXXX~~ tunnels to make Fairway, and grading truck line. Drives and Inclines, Reserve Line O.P.

2



**WAR DIARY**  
or  
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Army Form C. 2118.

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Summary of Events and Information      Map References : Sheet 44a.

Remarks and references to Appendices

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	Feb.	7	<p><u>WORK in PROGRESS</u>: - ROUTINE work at Permanent Tunnels. Stripping to grade. Picked up a fall of ground in HILL 70 Tunnels. Twin T.M. Empt at Cutoff Trench and LENS Subways. Opening up Nos 1, 2 and 3 M.G. Series. in Rly Embankment, NIEPPE. Encountered Masonry Wall - penetrating same.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>: - This office despatched A.M. 1/585 to C.M. Ref. Officers on Company Strength.</p> <p><u>COMPANY ORDERS 631</u>: - Appointments and promotions of N.C.O.'s.</p>	Appendix 13
	Feb.	8	<p><u>WORK in PROGRESS</u>: - M.G.E's under XV Corps Area. Routine work in Tunnels. A certain amount of bunking, repairs and boring for Ventilation, effected.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>: - Received from the Canadian Corps G208/21-2, Ref. Divisional Reports on F.L. Defence systems, Labour Units engaged, and maximum number of fighting troops/employed. G4/35 and G 1/34 Ref. Spoils parties for LENS, and LOOS Sectors, and Camouflage of Spoil.</p>	Appendix 14 " 15
	Feb.	9	<p><u>WORK COMPLETED</u>: - Signallers Dugout in Rly Embankment NIEPPE. Emplacements in progress. Commenced work on an important programme of Defence work in the Front Line Tunnels. Lining Curzon Btn H.Q., Timbering and track laying HILL 70.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>: - Received from 1 Canadian Div. G4/35 Ref. Transport of Coy H.Q. Canteen Dugout.</p>	Appendix 16
	Feb.	10	<p><u>WORK in PROGRESS</u>: - Opening out Inclines for "Command Post" Dugouts at Howson's Post off Lone Trench. Routine work in Subways.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>: - Received from 1st Can. Div G.4/35 Ref. Transfer from Existing H.Q. Can. Corps G.257/21-10 Ref. Careful disposal of spoil at F. Lines. [Canteen. 1st Can. Div G.1/38 Ref. Defence Schemes for Subways. C.E. Cand. Corps C.E/12/4 Ref. Mining cases and frames. C.E. Can. Corps. C.E.5-2-6-a re Safety in case of fire in dugout systems.</p>	Appendix 17 " 18. " 19 " 20+21
	Feb.	11	<p><u>WORK in PROGRESS</u>: - Defence works on Tunnels. Emergency Btn H.Q. in Chapel Alley. M.G. Series under XVth Corps. Cutoff T.M.E's and LENS Subways. Reserve O.P. and improvements of Fairways. HYTHE Subways. Gas door placed in "A" Incline. Work hampered by foul air; pumps being installed. <u>COMPANY ORDERS 635</u>: - 33 O.Rs S.off Strength 10-2-18.</p>	2



**3RD  
AUSTRALIAN  
TUNNELLING Coy.**

No. 112  
Date

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Place	Date	Hour	Summary of Events and Information	Map References ; Sheet 44a.	Remarks and references to Appendices
	Feb.	12	<p><u>WORK COMPLETED:-</u> Dugout in Devon Tunnel for 6<sup>m</sup> T.M. personnel. Strutted and roofed. Work in progress included Command Post Dugouts at Howson's Post and Curzon Street. Salvage work of large quantities of mine timber, pumps, and reinforced rubber hose, and explosives at HULLUCH. Subways at HILL 70, stripping for line and grade. Boring for Ventilation. Very difficult owing to nature of surface country. At LENS, progress with Carp-Canteen levels. During the week a Detachment of 1 N.C.O. and 7 O.R.'s were engaged on the Experimental Blowing of Craters for Defence against Tanks.</p> <p><u>COMPANY ORDERS 636:-</u> 10 O.R.'s reported for duty and were taken on strength as from 11-2-18. 8 O.R.'s embarked for Australia leaving England 10-1-18 and 11-1-18.</p> <p><u>CORRESPONDENCE R+I:-</u> Received from the Can. Corps Div. Ref: Defence of HYTHE - CANTEEN Tnls.</p>		Sketch "A"  Appendix 22
	Feb.	13	<p><u>WORK in PROGRESS:-</u> St. Elie Cookhouse roofed. Making Fairways at Tunnels. Excavation of Dugouts in Tunnel area. LENS Sector Subways, and Cutoff T.M.E.'s routine. At HILL 70, rising for M.G.E.'s from X-cuts. Made entrance off Dugout 204 in O.G. Line. Detachment at PONT DE NIEPPE working 6 faces in Rly Embankment M.G. Series.</p> <p><u>CORRESPONDENCE R &amp; I:-</u> Received from 1st Canadian Division G.1/34 Ref. Revetted Wall at Gravel Pit, HILL 70. " " " " " " G12/174 " Dugout accommodation at Canteen Tunnel. " " C.E. 1st Corps 2098 Ref. Champagne Types M.G.E.'s and Map of Lone <del>XXXXXX</del> Locality. 45/198 Letter from A.I.F.H.Q. re Cpl John Collinson. 3rd Canadian Inf. Bde Operation Order 224. 1st Can. Inf. Bde Operation Order 190.</p>		Appendix 23 " 24 " 25 " 26 " 27
	Feb.	14	<p><u>WORK in PROGRESS:-</u> Reballasting Manning Tunnel. This system put in thorough order, and Detachment withdrawn, for work elsewhere. Officers transferred H.Q. to HULLUCH Tunnels, and former quarters held by Tunnel Wardens and Listeners only. At LENS Sector Carfax Incline advanced and working faces at Carp, and rises for M.G.E.'s at HILL 70. Picking up O.G. 204. Making Spoil exits to Gravel Pit.</p>		
	Feb.	15	<p><u>WORK COMPLETED:-</u> In XV Corps area (57th Div) Boreholes to carry cables in Rly Embankment from Signals Dugout. Bored Dugout and lined (B29 c 50.80). Completed Reserve Line O.P. HILL 70. Drove forward face for proposed mine Defensive System under Gravel Pit, HILL 70. Routine as above in all Sectors LENS to VERMELLES Front.</p> <p><u>CORRESPONDENCE R &amp; I:-</u> Received from 1st Canadian Div. G.4/47 Ref. Spoils parties for subways.</p>		Appendix 28

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(1634e) Wt W5300/P713 750,000 3/18 E 688 Forms/C2118/16



3RD  
AUSTRALIAN  
TUNNELLING COY.  
No... 113  
Date

Army Form C. 2118.

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WAR DIARY  
or  
INTELLIGENCE SUMMARY.  
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Summary of Events and Information

Map References : Sheet 44a.

Remarks and references to Appendices

Place	Date	Hour	
	Feb.	16	<p><u>WORK COMPLETED:-</u> Platoon Dugout between St. Georges Tunnel, and Trench. Strutted and roofed.</p> <p><u>WORK in PROGRESS:-</u> Command Posts Dugouts at Howson's Post, and M.G. Empts (Champagne Type) in Lone and Pont St. Localities. Tunnel and Subways Routine.</p> <p><u>CORRESPONDENCE R. &amp; I.:-</u> Received from 1st Canadian Div. G 1/34 Ref. Strengthening of Cross Walls at The Gravel Pit Hythe Alley, and 7M3/2764 from 33rd Bde, Ref. Movement.</p>
	Feb.	17	<p><u>WORK in PROGRESS:-</u> Routine work in all Sectors. Improvements to main Exit Hay Alley above R.E material dump at Crewe Siding, 10th Avenue Tunnel. Linking up with main Rly from Kings Cross, Philosophie. At HYTHE 20 Attached C.I.F. reported Gassed. Clearing large spoil accumulation.</p> <p><u>CORRESPONDENCE R. &amp; I.:-</u> Recd. G4/48 from 1st Can. Divn, Ref. Anti-tank Gun Empt. " G1/34 " " " " " Spoils parties for LENS Sector.</p>
	Feb.	18	<p><u>WORK in PROGRESS:-</u> At HULLUCH Tunnel making dugout below Infantry Post at Stone St. Exit. Completed Bridge for Tramline at 10th Avenue Exit. M.G. E's and Command Post Dugouts in Fairways. Salvage. Alarm bells to Central Listening Posts, installed in Lens Sector. Carrying timber and materials for subways. At HILL 70, enemy gas again interfered with work of spoils parties. Pipes and Inclines continued. At NIEPPE the M.G.E. series were advanced and work effected for Signallers.</p> <p><u>CORRESPONDENCE R. I.:-</u> Received G1/34 Ref. Spoils Parties for work in Hythe Tunnels.</p>
	Feb.	19	<p><u>WORK in PROGRESS:-</u> Work in the village lines and routine work in the subways. Stripping and salvaging. Work advanced at T.M.E's Cutoff Trench at LENS. Boring Ventilators. The detachment at PONT DE NIEPPE made good progress with 1, 2, &amp; 3 M.G.E Series.</p> <p><u>COMPANY ORDERS 643:-</u> 5989 Spt FLEMING T. Gas Casualty on 17-9-18. 4377 " JONES L. Appointed Lance Corporal.</p>

Appendix 29  
" 30

Appendix 31  
" 32

Appendix 33.



3rd  
AUSTRALIAN  
TUNNELLING Coy.  
No. 114  
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Place	Date	Hour	Summary of Events and Information	Map References : Sheet 44a.	Remarks and references to Appendices
	Feb	20	<p><u>WORK COMPLETED</u>:- Btn H.Q. Dugout System at Curzon Street (G.247c 05.95). Roofed, strutted, and lagged all chambers, and connected with Magpie O.P. Dugouts. Commenced an additional face at Fosse 3 Dugouts, Philoasophe. Making Crewe Siding Rly line, and building barricade above the bridge across Hay Alley. At LENS Sector carried on M.G. rises and subway faces. Investigated Cellars and Dugout H.Q. at LENS as outcome of special Listening Reports. At HILL 70, Stripping and laying (60 c.m.) Railway.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Received frm C.E. 1st Corps No 2881 Ref. Work on Defences. " " " " Can. " " 103/26-2 Ref. Camouflage of Spoil. Despatched A.M. 1/614, Ref. Defence of Hythe, Canteen Tunnels.</p>		<p>Sketch "B"</p> <p>Appendix 34 " 35 " 36</p>
	Feb.	21.	<p><u>WORK COMPLETED</u>:- O.P. at Hurdle Trench (H31a 15.70) LOOS, for R.F.A. and Dugouts for Personnel.</p> <p><u>WORK in PROGRESS</u>:- PROGRAMME of Defence Work, including <del>XXXXXXXX</del> Command Post at Fosse 7, Chapel and Le Ratoire Alleys. LENS Subways and Gun Pits for T.M.E's etc.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Received from 3rd Can. Bde G1809 Ref. Permanent Spoils Parties for Hythe Tunnel. G3-48 1st Can. Div. Operation Order 233 re Reliefs. 3rd Can. Inf. Bde " " 225 " "</p>		<p>Appendix 37 " 38 " 39</p>
	Feb.	22	<p><u>WORK in PROGRESS</u>:- Advancing faces in new subways, stripping to grade, also the back and walls and timbering. Lagging Gunpits. An important programme of work developed in Village Lines of the HULLUCH - VERMELLES Sectors. Detachment at work on the HOUPLINES M.G. Empts <del>XXXXXXXX</del> Series (making the loopholes and embrasures for the guns) and tomming reinforcing and placing head cover on a series of large cellars under Jeanson's Factory, ARMENTIERES</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Forwarded to the C.of M. 1st Army A.M. 1/617, Ref. Work on Defences under construction, in view of possible hostile mining operations.</p>		<p>Appendix 40.</p>
	Feb	23	<p><u>WORK COMPLETED</u>:- Enlarged entrance to Fan Chamber to admit Blower machinery. Transferred Crab Winch to Haulage Way above Crewe Siding, and put steps in incline. Completed Ammunition Store off 6" T.M. Empt Northern Tunnel. Details of Defence Work in Tunnel Systems, and operations in Battle area. Detachment on Defence under XVth Corps.</p> <p><u>CORRESPONDENCE</u> :- Rec. from Can. Corps G757/20-7 Ref. Spoils parties of Pioneers.</p>		<p>Appendix 41</p>

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**WAR DIARY**  
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**INTELLIGENCE SUMMARY.**

(Erase heading not required.)

<b>3RD AUSTRALIAN TUNNELLING Coy.</b>
No. <b>115</b>
Date

Army Form C. 2118.

356

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Place	Date	Hour	Summary of Events and Information	Map Reference : Sheet 44a.	Remarks and references to Appendices
	Feb.	24	<p><u>WORK COMPLETED</u>:- Under XVth Corps Area, No 1 Series M.G. Empts.</p> <p><u>WORK IN PROGRESS</u>:- Includes excavations at HILL 70, of Subway faces. Air very foul and necessitating extra Holman Pumps. Carrying Engine and Blower Plant underground. One strong Section employed in Battle Area. Listening maintained in Mine Systems.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Received from 4th Canadian Divn G7/3 Ref. Working Parties at Canteen Subways.</p>		Appendix 42
	Feb.	25	<p><u>WORK COMPLETED</u>:- Crewe Siding Exit to Hay Alley. Ballasting, strutting sets, and revetting Trench.</p> <p><u>Work in PROGRESS</u>:- Routine HILL 70 and LENS. Large quantity of timber required for Defence work and laying Bed for Engine, and Sturtevant Blower at HILL 70.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Received from C. of M. No 762 Ref. Underground Defence of Mason's House Post.</p> <p><u>COMPANY ORDERS 649</u>:- 6 Sappers promoted to be Lance Corporals from 25-2-18.</p>		Appendix 43
	Feb.	26	<p><u>WORK COMPLETED</u>:- Repairs to H.H.T.M.E. Hulluch Tunnel, after partial crump by shell.</p> <p><u>WORK in PROGRESS</u>:- Fan Installation, dugouts in Battle area, and subway extensions.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Received from 1st Can. Divn. G4/56 Ref. Spoil party of 1 Offr. 61 O.R.s and 1 N.C.O. and 10 O.R.'s, also 12 Sappers of the 1st Field Coy C.E. to report at H.Q. at noon on the 28th inst. for Hythe Tunnel, LOOS G.36d 4.6.</p>		Appendix 44.
	Feb.	27	<p><u>WORK COMPLETED</u>:- 4 Empts for M.G.'s and camouflaged, of the No 2 Series PONT DE NIEPPE XVth Corps Area, also 2 E's of the No 3 Series. Completed in Cutoff Trench, LENS, Twin 6" T.M.E's (N.8c 30.75) and (N.8c 27.74) at Hythe Tunnel. Effected connection into Gravel Pit, and laid 60 c.m. line. This provides an easy spoil dump. Chalk tipped at the Pit merely required camouflaging from aerial observation. Canteen Subways showed good progress for the period. In the Battle Area the Chapel Alley Command Post Dugouts were handed over to the Div. Pioneers for completion, and Sappers released for work at Le Rutoire Alley.</p> <p><u>CORRESPONDENCE R. &amp; I.</u>:- Rec. from 1st Can. Divn. G1/38 Ref. The defence of the Gravel Pit.</p> <p><u>COMPANY ORDERS 651</u>:- 2330 L/Cpl PHILLIPS B. Killed in Action 26-2-18, as result of M.G. fire in LENS Sector.</p>		Appendix 45.



3RD  
AUSTRALIAN  
TUNNELLING COY.  
No. 116  
D.O.

Army Form C. 2118.

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INTELLIGENCE SUMMARY.

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	Feb.	28	<p><u>WORK in PROGRESS:-</u> Opened up X cut off Hythe for anti-tank Field Gun Empt. In the Tunnels repairs were effected to stairways, sumps baled, repairs, etc. Work of detachment under XV Corps still in progress.</p> <p><u>COMPANY ORDERS 652:-</u> 11 O.R.'s struck off strength as from 24-2-18.</p>		
	Feb.	1918	<p><u>RESUME OF WORK FOR THE MONTH ENDED.</u> In the XV Corps Area at PONT DE NIEPPE Dugouts were excavated for M.G. personnel, and M.G. emplacements opened up in the Railway Embankment.</p> <p>At LOOS and LENS Sectors under the Canadian Corps the policy of Strategic Defence works was further developed. Dugouts M.G. and T.M.E.'s were completed.</p> <p>Under the 1st Corps Area the permanent subways of the HULLUCH - VERMELLES Sectors were maintained. The subsidence of the winter W.L. assisted greatly in providing a comfortable and sanitary run of fairways, at the same time the Power Fan installed at the Main Junction of tunnels assisted in the ventilation of the Right Sector. This state of affairs freed Sappers for work on an important programme of Defence in the Battle Area, which was well advanced at the end of the month.</p> <p>During the Month spoil and labour parties were supplied by the 1st and 3rd Canadian Inftry Brigades, the Can. Corps and Canadian Div. Engineers at the HILL 70 area, and by the 32nd and 33rd Infantry Brigades at the Hulluch Sector.</p> <p>The Detachment at ARMENTIERES were supplied with labour parties by the XVth Corps Troops.</p>		<p><i>Added</i></p> <p><i>Appendices</i></p> <p><i>46 to 41</i></p>



## WAR DIARY

OF

3<sup>rd</sup>. Aust. Tunnelling Coy.

FOR

February 1918.

## LIST OF APPENDICES.

- | No.  | Subject.  |
|------|---|
| 1.   | 2881/A from C.E. instructing 30 <sup>th</sup> Labor Corps to report to 3 <sup>rd</sup> Aust. T. Coy.    |
| 2.   | C.M. 1 <sup>st</sup> Army N <sup>o</sup> 493. Ref: Dimensioned Drawings of Bridges                      |
| 3.   | G4/48 from 1 <sup>st</sup> Can. Div. Ref: Change in locality of certain M. G. Empts.                    |
| 4.   | G4/47 " " " " Ref: Spoil Parties to report for work at Canteen  |
| 5.   | 1/0 from Can. Div. Engrs. Ref: Working Parties from 1 <sup>st</sup> + 2 <sup>nd</sup> Can. Field Coy's. |
| 6.   | G4/47 from 1 <sup>st</sup> Can. Div. Ref: Additional Party to report for work at Hythe.                 |
| 7.   | 2098 from C.E. 1 <sup>st</sup> Corps. Ref: Instructions to Commence Post at Fosse [G. 198. 45. 15]      |
| 8.   | G. 1648 from 3 <sup>rd</sup> Can. Inf. Bde. Ref: Spoil Parties.   |
| 9.   | From Hd. Qrs. Can. Div. Engrs. Ref: Labor for additional "face" at Hythe.                               |
| 10.  | E486 from Mine School + despatch <sup>from</sup> N <sup>o</sup> 6 C.C.S. about Lieut. A. L. Kennedy     |
| 11.  | Memo from 33 <sup>rd</sup> Inf. Bde. re meeting of Officers.  |
| 12.  | 3 <sup>rd</sup> Can. Inf. Bde. Operation Order 222 re Spoil Parties.                                    |
| 13.  | A.M. 1/585 to C.M. Ref: Officers on Company Strength.   |
| 14.  | G 208/21-2 from Can. Corps. Ref: Divisional Reports on F.L. Defences etc.                               |
| 15.  | G. 4/35 + G 1/34. Ref: Spoil Parties for Lens + Loos Sectors.   |
| 16.  | G 4/35 from 1 <sup>st</sup> Can. Corps. Div. Ref: Transfer of C.H.Q. at Canteen Dugout.                 |
| 17.  | G 4/35 from 1 <sup>st</sup> Can. Div. Ref: Transfer from existing H.Q. Canteen Tnl.                     |
| 18.  | G. 257/21-10. from Can. Corps. Ref: Careful disposal of Spoil at Frontlines.                            |
| 19.  | 1/38 from 1 <sup>st</sup> Can. Div. Ref: Defence Scheme for Tunnels.                                    |
| 20.  | C.E. 12/4 from C.E. Can. Corps. Ref: Mining Cases + Frames.   |
| 21.  | C.E. S-2-6-a from C.E. Can. Corps. Ref: Safety in Case of fire in Dugout <sup>Systems</sup>             |
| 22.  | D. 19 from Canadian Corps. Ref: Defence of Hythe - Canteen Tunnels.                                     |
| 23.  | G. 1/34 from 1 <sup>st</sup> Can. Div. Ref: Revetting Wall of Gravel Pit. Hill 70.                      |
| 24.  | G. 12/174 " " " " Ref: Dugout Accommodation at Canteen Tnl.   |
| 25.  | 2098 from C.E. 1 <sup>st</sup> Corps. Ref: Types of M. G. E. + Map of Lone locality.                    |
| 26.  | 45/198. Letter from A.I.F. Hd. Qrs. re Cpt. John Collinson.   |
| 27.  | 3 <sup>rd</sup> Can. Inf. Bde. Operation Order 224  |
| 27a. | 1 <sup>st</sup> Can. Inf. Bde. " " " " 196.   |
| 28.  | G. 4/47 from 1 <sup>st</sup> Can. Div. Ref: Spoil Parties for Subways.                                  |
| 29.  | G. 1/34 from 1 <sup>st</sup> Can. Div. Ref: Work at Gravel Pit, Hythe Tnl.                              |
| 30.  | 7 M. 3/2764 from 33 <sup>rd</sup> Bde. Ref: Movement Orders.  |
| 31.  | G 4/48 from 1 <sup>st</sup> Can. Div. Ref: Anti-Tank Gun Empts.   |
| 32.  | G 1/34 " " " " Ref: Spoil Parties for Lens Sector.  |
| 33.  | G 1/34 Referring to Spoil Parties for work in Hythe Tunnel.   |
| 34.  | 2881 from C.E. 1 <sup>st</sup> Corps. Ref: Work on Defences.  |
| 35.  | 103/16-2 from C.E. Can. Corps. Ref: Camouflage of Spoil.  |
| 36.  | A.M. 1/614 Ref: Defence of Hythe + Canteen Tunnels.   |
| 37.  | G. 1809 from 3 <sup>rd</sup> Can. Bde. Ref: Permanent Spoil Parties for Hythe Tnl.                      |
| 38.  | G. 3-48 <del>to</del> 1 <sup>st</sup> Can. Div. Operation Order 233 re Reliefs.                         |
| 39.  | 3 <sup>rd</sup> Canadian Inf. Bde. " " " " 225 [OVER]   |



# WAR DIARY

OF

3rd Caval. Trenching Coy

FOR

February 1918

## LIST OF APPENDICES.

No.	Subject.
1	2881 A from C.E. instructing to enter logs to report to 3rd Caval. Coy
2	C.M. 1st Army No 433 Ref: Unnecessary movements of the line
3	papers from 1st Can. Div. Ref: Changes in location of certain M.G. posts
4	6/2/17 Ref: Report made to report on work at Canteen
5	10 from 1st Can. Div. Ref: Working parties from 1st Can. Div.
6	6/2/17 from 1st Can. Div. Ref: Additional report to report on work at night
7	2098 from C.E. 1st Army Ref: Instructions to commandant of 3rd Caval. Coy
8	6/10/17 from 3rd Can. Div. Ref: Report on work
9	6/10/17 from 3rd Can. Div. Ref: Report on work
10	6/10/17 from 3rd Can. Div. Ref: Report on work
11	6/10/17 from 3rd Can. Div. Ref: Report on work
12	3rd Can. Div. Ref: Operation Order 222 re spoil parties
13	R.M. 1/282 to C.M. Ref: Officers on company strength
14	6/20/17-2 from 1st Can. Div. Ref: Unnecessary movements of the line
15	6/2/17 + 6/1/17 Ref: Report on work
16	6/2/17 from 1st Can. Div. Ref: Unnecessary movements of the line
17	6/2/17 from 1st Can. Div. Ref: Unnecessary movements of the line
18	6/2/17-10 from 1st Can. Div. Ref: Unnecessary movements of the line
19	1/38 from 1st Can. Div. Ref: Unnecessary movements of the line
20	C.E. 1/24 from C.E. 1st Army Ref: Unnecessary movements of the line
21	C.E. 3-2-2-2 from C.E. 1st Army Ref: Unnecessary movements of the line
22	6/19 from 1st Can. Div. Ref: Unnecessary movements of the line
23	6/19 from 1st Can. Div. Ref: Unnecessary movements of the line
24	6/19/17 Ref: Unnecessary movements of the line
25	2098 from C.E. 1st Army Ref: Unnecessary movements of the line
26	6/19/17 from 1st Can. Div. Ref: Unnecessary movements of the line
27	6/19/17 from 1st Can. Div. Ref: Unnecessary movements of the line
28	6/19/17 from 1st Can. Div. Ref: Unnecessary movements of the line
29	6/19/17 from 1st Can. Div. Ref: Unnecessary movements of the line
30	40 A.M. 1/617 Sent to C.M. 1st Army Ref: Work on Defences.
31	41 G 757/20-7 from Canadian Corps Ref: Pioneer Spoil Parties
32	42 G 7/3 from 4th Can. Div. Ref: Working Parties at Canteen Subways
33	43 762 from C.M. Ref: Underground Defence of Masons House Post.
34	44 G 4/56 from 1st Can. Div. Ref: Spoil Parties.
35	45 G 1/38 from 1st Can. Div. Ref: The Defence of the Gravel Pit.



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Appendix 1



O.C., 30th Labour Company,  
GORRE.

-----

Please detail 75 men to report to Headquarters of the 3rd Australian Tunnelling Company at BRAQUEMONT, L.25.d.8.4 at 3 p.m. on the 3rd instant, with equipment, blankets and rations for the 4th instant. They will be required for about 1 month.

A lorry will report at your Headquarters at midday, 3rd instant.

*W. Brown*

Brigadier General,  
Chief Engineer, I Corps.

1.2.18.

Copies to:-

D.A.D.L., I Corps.

O.C., 3rd Australian Tunnelling Coy.

*W.B.*



SECRET .

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Appendix 2. 12.

C.M. 493  
First Army.

O.C., 3rd Aust. Tun. Coy.  
-----

Confirming telephone conversation of to-day, please have dimensioned drawings made of the following bridges, as soon as possible, shewing, approaches, abutments, span, depth of stream or road below centre of span, width of bridge, width of roadway, and details of construction.

It is not necessary to shew the details of the elements, such as bolts etc., but enough general detail is required to enable G.H.Q. to make provision for replacement in case it should be necessary to destroy these bridges.

A note should be appended to each drawing to say whether a deviation could be made easily and a bridge thrown across away from the site of the present bridge.

G.10.d.80.45.)	
B.24.c.0.8.)	
C.25.a.9.0.)	
C.19.c.6.0.)	XV Corps.
C.19.c.8.4.)	
C.26.a.2.2.)	
C.21.c.1.1.)	

First Army, H.Q.,  
2nd Feb., 1918.

*H. H. Quill*  
Major R.E.,  
for Controller of Mines,  
First Army.

*RB*

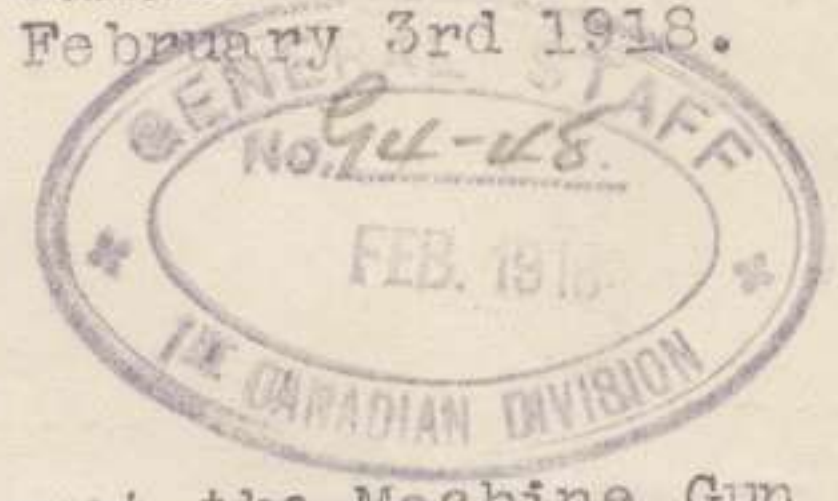


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Appendix 3.

SECRET.

1st Canadian Division.  
February 3rd 1918.



3rd Australian Tunnelling Company. ✓  
C.R.E. ) for  
D.M.G.C.) information.  
-----

It will be satisfactory to construct the Machine Gun  
Emplacement off the HYTHE TUNNEL, at present shown at H.32.c.15 at  
H.32.c.17.50.

Also it will be satisfactory to construct the Newton  
Mortar Emplacement at present shown at H.31.d.97.45 at  
H.31.d.97.50.

*J.P. Parsons*

Lieut-Colonel,  
General Staff,  
1st Canadian Division. NB





Appendix 4.

1st Canadian Division.  
February 3rd, 1918.

1st Canadian Infantry Brigade.  
3rd Australian Tunnelling Coy. - for information.  
C.R.E. 1st Canadian Division. " "

The following additional working party of 36 working strength is required for work on CANTEEN TUNNEL, and will report at 10 p.m. February 4th to Tunnelling Officer at N.8.a.30.85.

The 3rd Australian Tunnelling Coy. will arrange billets.

All ranks must carry 48 hours rations.

ACKNOWLEDGE.

W. Merton H  
Lieut-for Lt-Colonel.  
General Staff.  
1st Canadian Division.

*W.B.*



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 1st Field Company C.R.  
 2nd Field Company C.R.  
 1st Cdn. Div. "G" (For information)  
 3rd Australian Tunnelling Co. (For information) ✓  
 D.G.M.O. 1st Cdn. Div. (For information)  
 -----

The following confirms verbal instructions issued this morning.

A. TUNNELLING.

You will allot the following other ranks as facemen to work under the instructions of the 3rd Australian Tunnelling Company until further orders.

1. 1st Field Co. C.R. 12 men to work on two faces in CANTON Tunnel, 6 men on each face.  
 2 men per shift of 8 hours.  
 The first shift will report to the 3rd Australian Tunnelling Company at 10 p.m. the 4th inst. at N.8.a.50.85.  
 The next shift is at 6 a.m. and the third shift at 2 p.m. the following day.
2. 2nd Field Co. C.R. 6 men to work on one face in HYTHE ALLEY Tunnel, and to report to the 3rd Australian Tunnelling Company at 10 p.m. on the 4th inst. at G.36.d.4.6., the time and of shifts, etc. will be the same as detailed in the above paragraph.

The 3rd Australian Tunnelling Company will supervise this work but the men will remain attached to you for rations and live in your forward billets, proceeding to the work in time to take on their shift.

B. M.G. REPLACEMENTS.

The following Champagne M.G. Replacements have been turned over to you for construction.

1. 1st Field Company C.R.

<u>No. of M.G.R.</u>	<u>Name.</u>	<u>Location.</u>
L.3	Ale	N.2.a.05.70.
L.2	Brandy	H.1.b.90.40
L.1	Vermouth	N:1.b.95.25
L.21 )	Banker	G.36.b.70.10 )
L.22 )		G.36.b.80.25 )

2. 2nd Field Company C.R.

L.15	Punch	H.25.d.10.27
L.14	Absinthe	H.25.d.35.40
L.8	Stout	H.32.a.20.05
L.16	Beer	H.25.c.50.18

You will take the necessary steps to put this work on hand, the first shift in the case of each Replacement to commence at 2 p.m. on the 5th inst.

1st Canadian Division has been requested to detail a spoil party consisting of one Officer, the requisite N.C.Os, and 72 actual workers to each Field company, as detailed in my previous l-c of today. This party to be accommodated at your Forward Billets and will work under your orders on the basis of 6 spoil men to each shift for each facemen which you are working.

VNB.



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You will make application direct to the Brigade in whose area you are working for additional parties required to carry mine sets etc.

Capt. Donholm, 1st Cdn. Divl. M.G. En. will, until further orders, be quartered at the H.Q. of the 107th Cdn. Pioneers in MAROC, and will be responsible for siting all M.G. Emplacements, camouflaging same and the siting of Tactical Wire. You will consult with this officer, whenever necessary, regarding these matters, and you will make arrangements for your Officers to go over the site of your various M.G. Emplacements with Capt. Donholm on the morning of the 5th inst.

As already pointed out, this work is of the utmost importance and you will please use every effort to carry it to a successful and rapid completion, reporting to this office that the work has commenced on each Emplacement at the time above stated, and reporting progress in your daily work report.

A trace sheet showing all M.G. Emplacements is attached hereto for your information.



*W. F. H. Hardyberg*

Lieut. Colonel,  
C.R.E. 1st Canadian Division.



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Appendix 6.



1st Canadian Division.  
February 3rd, 1918.

3rd Canadian Infantry Brigade.  
 3rd Australian Tunnelling Coy. - for information.  
 C.R.E. 1st Canadian Division. " "

-----

The following additional working party of 18 working strength is required for work on HYTHE TUNNEL, and will report at 10 p.m. February 4th to Tunnelling Officer at G.36.d.40.60.

The 3rd Australian Tunnelling Coy. will arrange billets.  
 All ranks must carry 48 hours rations.

ACKNOWLEDGE.

*W. Munton*  
 Lieut-for Lt-Colonel.  
 General Staff.  
 1st Canadian Division.

*WMB*

O.C.



25/6



APPENDIX

4/18

Appendix 7.



O.C., 3rd Australian Tunnelling Coy.

Reference telephone conversation.

Will you please put in hand the construction of a Command Post (Battalion Headquarters) dug-out at PHILOSOPHE FOSSE. Entrances to be at toe of Fosse slope about G.19.b.45.15.

Entrances should be protected. I can supply two English Shelters for this purpose.

*John Wilson*

Brigadier General,  
Chief Engineer, I Corps.

4.2.18.

*W.B.*



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APPENDIX

19  
9

Urgent. *Appendix 9*

1st Canadian Division "C"  
3rd Australian Tunnelling Coy. (For information) ✓  
-----

Reference conversation this morning.

The following spoil party is required please, for work on another face of the HYTHE TUNNEL.

18 actual workers to be attached to the 3rd Australian Tunnelling Coy. for duty, discipline and rations, and to report to the 3rd Australian Tunnelling Coy's Advanced Headquarters at G.36.d.40.60 at 2 p.m. on the 6th inst. This party to bring the remainder of that day's rations and an additional 48 hours with them.

The 3rd Australian Tunnelling coy. will make the necessary arrangements for billets for this party.



*[Signature]*  
Lieut. Colonel.  
C.R.F. 1st Canadian Division.

*NB*



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Headquarters,  
3rd Canadian Infantry Brigade,  
5th February, 1918.

15th Canadian Battalion.  
2nd Field Company C.E. )  
3rd Australian Tunnelling Coy.) for information.

-----

The following additional spoil party from the 15th Battalion will report to the 3rd Australian Tunnelling Company at their Advanced Headquarters, G.36.d.4.6. at 2 p.m. on the 6th inst. -

18 men with requisite N.C.O's.

The party will be rationed by the battalion for the 6th, 7th, and 8th inst. It will be relieved on the 8th instant by a party from another battalion.

Unless men not already detailed for working parties are available, this party will be taken from the party now supplied to 2nd Field Company, C.E. for work on dugout entrances in the forward area.

ACKNOWLEDGE.

*Jekins*  
Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.

N.B.V.



2nd Field Company C.E.  
3rd Australian Tunnelling Coy. (For information) ✓  
-----

Reference verbal arrangements.

It has been decided to commence an additional face on the HYTHE TUNNEL, and you will therefore please detail 6 facemen for this work under the 3rd Australian Tunnelling Coy. These men to remain with you for rations and billets, and to report to the 3rd Australian Tunnelling Coy. in time to take over their various shifts, the two men on the first shift to report at G.36,d.40.60. at 2 p.m. on the 6th inst.

5.2.18.  
1-0



Lieut. Colonel  
C.R.E. 1st Canadian Division.

NA



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O.E.

3<sup>rd</sup> Australian Trench Coy

Lt Kennedy was admitted  
to No 6 C.E.S. on 5-2-18

For your information please

Salvo Lt Col  
O.C. 1<sup>st</sup> Army Mine School.

MINE SCHOOL, FIRST ARMY.	
No.	E486
Date	6-2-18

MS  
Cnr.



23  
APPENDIX 10.

2/2

Appendix 10.

Officer Commanding  
3rd Australian Tunnelling Coy. 356

To report that Lieut Kennedy  
was not in possession of two  
Envelopes and Field Glass on  
admission to this Tunnelling  
Station. The Officer stated that  
two Envelopes were left with  
his unit and that he was never  
in possession of a Envelope

No. 6  
CASUALTY CLEARING  
STATION.

W.B. S.W.

G.F. Robinson  
Lieut  
for Lieut Colonel  
Kennedy 10/1/45



33rd Infantry Brigade No... 9/1.....

3rd Australian Tunnelling Coy.  
68th Field Coy. R.E. (for information).

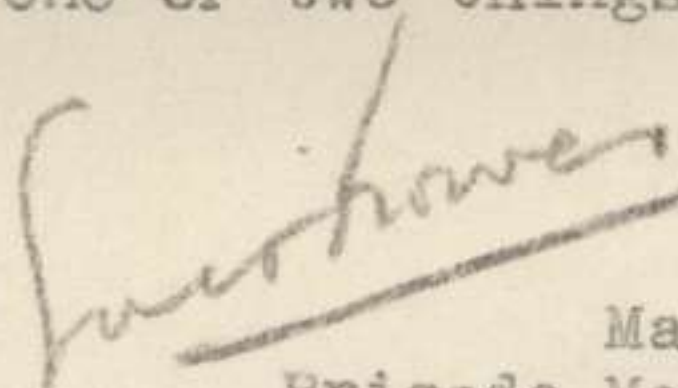
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*Appendix II*

1. Will you please say where an officer of our Field Coy can meet one of your officers in order to ascertain if any work is required to be done on the gas defences of the Tunnels in the Brigade Sector.

The Left Battalion H.Q. will be the most convenient place for the officer of the Field Coy.

2. The B.G.C., would like you to come here to see him some evening between 6 and 7 p.m. Perhaps you would ring up and say which evening you will come. He would like you to come as soon as possible, as there are one or two things we to discuss.



Major,  
Brigade Major.  
33rd Infantry Brigade.

5/2/18.



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3rd Canadian Infantry Brigade,  
Operation Order No. 222.SECRET.Copy No. 8Reference LOOS and LENS Sheets  
1/10,000.

6th February, 1918.

1. Reliefs in accordance with the attached Table "A" will be carried out on the night February 8th/9th.
2. All details of relief will be arranged direct between Commanding Officers concerned.
3. Details of relief of working parties shown on Table "B". All working parties will be relieved by 8 p.m. February 8th.
4. Trench stores, Defence schemes, Maps, Aeroplane photos, etc. will be handed over on relief.
5. Disposition maps and strength returns will be forwarded to Brigade Headquarters by 12 noon February 9th.
6. Completion of relief will be notified to Brigade Headquarters by wire, using the code word "PETER".
7. Please ACKNOWLEDGE.

*J. Kemp*Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.issued at 1 p.m.  
6/2/18.

## DISTRIBUTION:-

- |          |       |                                      |
|----------|-------|--------------------------------------|
| Copy No. | 1     | 13th Cdn. Battalion. (R.H.C.)        |
|          | 2     | 14th Cdn. Battalion. (R.H.R.)        |
|          | 3     | 15th Cdn. Battalion. (48th H. of C.) |
|          | 4     | 16th Cdn. Battalion. (CDN. SCOTTISH) |
|          | 5     | 3rd Cdn. T.M. Battery.               |
|          | 6     | O.C. No. 4 Sect. Div'l. Signals.     |
|          | 7     | 2nd Field Company, C.E.              |
|          | 8     | 3rd Australian Tunnelling Coy.       |
|          | 9     | 1st Canadian Infantry Brigade.       |
|          | 10    | 33rd Infantry Brigade.               |
|          | 11    | 1st Cdn. Div'l. Artillery.           |
|          | 12    | 1st Canadian Division "G".           |
|          | 23    | 1st Canadian Division "Q".           |
|          | 14    | Canadian Corps "G".                  |
|          | 15    | 13th Cdn. M.G. Company.              |
|          | 16    | G.O.C.                               |
|          | 17    | Brigade Major.                       |
|          | 18    | Staff Captain "Q".                   |
|          | 19    | Staff Captain "I".                   |
|          | 20    | Office.                              |
|          | 21-24 | War Diary.                           |
|          | 24    | 2nd ... ..                           |

P.T.O.

*ack'd  
6/2/18*



TABLE "A", issued with 3rd Canadian Infantry Brigade Operation Order No. 222.

No.	Date.	UNIT.	From.	To.	Relieving.	H.Qrs.
1.	Foby. 8th	13th Battn. (R.E.C.)	Bde. Reserve.	Front Line Right Subsection	14th Battn. (R.M.R.)	H. 31.d. 2. 3.
2.	"	15th Battn. (48th E. of C)	Bde. Support.	Front Line Left Subsection	16th Battn. (CDN. SCOTTISH.)	G. 30.d. 7. 2.
3.	"	14th Battn. (R.M.R.)	Front Line Right.	Bde. Reserve.		VILLAGE LINE On relief. H.Qrs. not yet selected.
4.	"	16th Battn. (CDN. SCOTTISH.)	Front Line Left.	Bde. Support.		G. 36.a. 8. 9. On relief.

TABLE "B", issued with 3rd Canadian Infantry Operation Order No. 222.

To be supplied by.	Off. C.R.	Relieving.	Work with.	Work.	Rationed and Billeted by.
1. 16th Battn.	- 36	15th Battn.	3rd Australian Tunnelling Coy	HYTHE Tunnel.	3rd Australian Tunnelling Coy.
2. 16th Battn.	1 72	15th Battn.	2nd Field Coy.	M.G. Emplacements	Battalion.
3. 16th Battn.	- 80	15th Battn.	Medium Trench Mortars.	Carrying.	3 parties of 20 at 8 a.m. daily. 1 party of 20 at 6 p.m. daily.
4. 16th Battn.	- 75	15th Battn.	2nd Field Coy.	Dugouts in forward area.	Billeted and rationed by Battn.
5. 15th Battn.	- 10	16th Battn.	2nd Field Coy.	Loading at Greenmound Dump.	Live at the dump. Rationed by 2nd Field Coy. C.E.

(a) All information about billets, shifts, rendezvous, and times of reporting, will be given by Unit now supplying the party.

(b) Column 3 is working strength, and does not include M.C.Os.



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Appendix 12.27

SECRET

G. 1658

Headquarters,  
3rd Canadian Infantry Brigade,  
6th February 1918.

Amendment to 3rd Canadian Infantry Brigade  
Operation Order No. 222.

---

In accordance with orders from 1st Canadian  
Division, 3rd Canadian Infantry Brigade Operation  
Order No 222 will be amended as follows:-

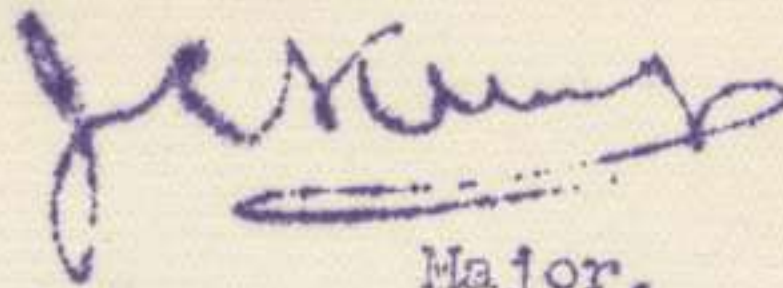
Para 1 - line 2 - For "night February 8/9th"  
read "night February 7/8th"

~~Para 3 - line 2 - for "February 8th" read "February 7th"~~

Para 5 - line 2 - for "February 9th" read "February 8th".

Table "A" - Column 2 throughout - for "February 8th"  
read "February 7th"

Serial 3 - column 7 - delete and substitute  
"Head quarters and 1 Company - G.29.a.3.6., 3 Companies-LOOS.  
Town Major, LOOS will arrange billets."



Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.

To all recipients of 3rd Canadian Infantry Brigade  
Operation Order No. 222.

---



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Appendix B.

A.M. 1/585.

Controller of Mines.

1st. Army.

As this Unit is now employed on a number of widely separated works in the Canadian Corps, 1st. Corps, and XVth. Corps areas a greater amount of supervision than is at present provided is urgently required in order to get the fullest efficiency.

The Unit has, unfortunately, lost the services of a very excellent officer who recently died of wounds viz:- Lieut H. Russel, M.C. <sup>A.L. Kennedy,</sup> Lieuts. V.C. Bennett and J.W. Allen have gone to Hospital on account of illness, and Lieut. O.R. Howie, M.C., who was severely wounded, is still absent, although I believe he has been marked fit for general service and may be returned soon.

May a request be made, please, for reinforcement officers to replace the above-named. I shall be glad if

Lieut. O.R. Howie, M.C.,  
 2nd. " Byron Moore,  
 " " A. Dunn, and  
 " " H. Warlow & Davies

are posted to this Unit, if possible.

(Sp.) Alex. Sanderson

MAJ.

7/2/18.

O.C., 3rd. Australian Tunnelling Company.

Major.



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SECRET.  
CANADIAN CORPS.  
G.208/21-2  
8th February 1918.

1st Canadian Division.

Divisions will forward a report, to reach this Office on the 12th inst., giving a forecast as to the date by which each system of defence will be in a satisfactory defensible condition; also the number of labour units employed on defence work, and the maximum number of fighting troops employed on defence work, other than maintenance of existing trenches.

(Sgd) W.R.BERTRAM, Major  
for B.C., G.S., Canadian Corps.

- 2 -

1st Canadian Division.  
February 9th 1918.

2nd & 3rd Can. Inf. Bdes.  
C.R.A., C.R.E., D.M.G.C.  
1st Can. Tnng Company  
3rd Australian Tnng Coy ✓

G.1-31.37

Please report on last D.R. February 11th.



*E. H. [unclear] Capt. 90,*  
Lieut-Colonel,  
for General Staff,  
1st Canadian Division.

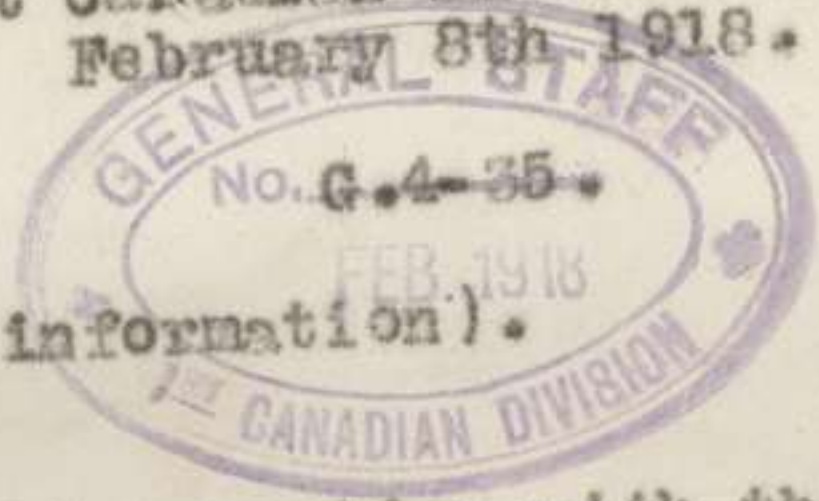
W.B.



2/26

Appendix 15

**SECRET**  
1st Canadian Division.  
February 8th 1918.



2nd Cdn. Inf. Bde.  
3rd Cdn. Inf. Bde.  
3rd Australian Tnlg Coy (for information).  
-----

Reference permanent working parties with the 3rd Australian Tunnelling Company:-

The working parties detailed as spoil men for work on HYTHE and CANTREN Tunnels will only be changed when the Brigade is relieved.

ACKNOWLEDGE.

*a/oc. No 3 Section*  
*do No 2*  
*To note & return*  
*ad.*  
*2/2/18*

*[Signature]*  
Lient-Colonel,  
General Staff.  
1st Canadian Division. *✓ RB*





Appendix 15. 31.

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1st Canadian Division  
8th February 1918.

G.S. 34.



1st Cdn. Inf. Brigade  
2nd Cdn. Inf. Brigade  
3rd Cdn. Inf. Brigade  
C.S.B.  
3rd Aust. Tunn. Coy. } for information.  
-----

Commencing on February 9th, Brigades in the line will be responsible that the Camouflaging of the spoil from the tunnels now under construction is thoroughly and effectively carried out as follows:-

ST. HILLS SECTION.....EASTERN Tunnel.  
HILL 70 SECTION.....EASTERN Tunnel.

It is considered that this inspection should be included in the duties of the Brigade "Works" Officer, and should be carried out early in the morning - daily.

Cases of flagrant neglect to camouflage before daylight the spoil dump during the night will be reported ~~to~~ to Divisional Headquarters by wire at once.

Brigades will render a detailed report of inspections, to reach Divisional Headquarters by noon on Saturday of each week.

ACKNOWLEDGE.

*A. J. Matthews*  
Lieut-Colonel,  
General Staff,  
1st Canadian Division.

*Lt. Wentworth a/c. No 3 Section*  
*Lt. Mc Ardell a/c. No 2 Section*  
*Please note & return*

Appendix 16.

1st Canadian Division  
Feb. 9th 1918

2nd Canadian Inf. Brigade.  
3rd Aus. Tunnelling Coy. (for information)  
-----



The 3rd Australian Tunnelling Coy. are anxious to have your Coy. H.Q. in CANTEN ALLEY moved from the Dugout at N.8.a.95.25 to Dugout at N.8.a.75.35. This will materially assist the Tunnellers in their work. Will you please arrange to have this change made?

*W. Parsons*  
Lieut. Colonel,  
General Staff,  
1st Canadian Division.

*MB*



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1st Canadian Division  
8th February 1918.

G. 1-34.



1st Cdn. Inf. Brigade  
2nd Cdn. Inf. Brigade  
3rd Cdn. Inf. Brigade  
C.R.C.  
3rd Aust. Tunn. Coy. } for information.  
.....

Commencing on February 9th, Brigades in the Line will be responsible that the Camouflaging of the spoil from the tunnels now under construction is thoroughly and effectively carried out as follows:-

ST. EMILE SECTION.....CANTREN Tunnel.  
TILL 70 SECTION.....EVANS Tunnel.

It is considered that this inspection should be included in the duties of the Brigade "Works" Officer, and should be carried out early in the morning - daily.

Cases of flagrant neglect to camouflage before daylight the spoil dump during the night will be reported IMM to Divisional Headquarters by wire at once.

Brigades will render a detailed report of inspections, to reach Divisional Headquarters by noon on Saturday of each week.

ACKNOWLEDGE.

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

*Lt. Mentworth a/c. No 3 Section*  
*Lt. Mcardell a/c. No 2 Section*

*Please note & return*  
*Alex. Sanderson*  
*9/2/18.*

*JMB*





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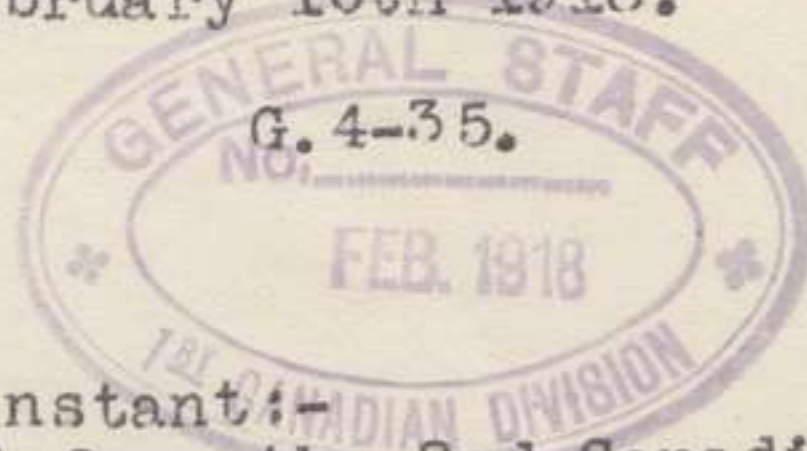
APPENDIX 7

32

Appendix 17.

SECRET

1st Canadian Division.  
February 10th 1918.



3rd Australian Tunnelling Coy.  
-----

Reference this Office G.4-35 of 9th instant:-  
The following reply has been received from the 2nd Canadian Infantry Brigade, forwarded from the 7th Canadian Battalion:-

"Ref. your BM688 dated 9.2.18 - We have investigated dugout at N.8.a.75.35 proposed as the new Coy. H.Q. in CANTEEN ALLEY and find conditions as follows -  
In the present Coy.H.Q.(N.8.a.95.25) we have 25 all ranks. This includes Coy.H.Q.(17) and accommodation for 12 O.Rs from posts when off duty. The dugout (N.8.a.75.35) is already occupied by 2nd T.M. Battery with 1 Officer and 8 O.Rs. With crowding the dugout could accommodate 13 all ranks, and is therefore, obviously too small for our requirements, whether the T.M. Bty moved out or not. We do not know of any other dugout suitable for H.Q."

(Sgd) J. MATTHEWS, Maj. and Adjt.

7th Canadian Infantry Battalion.

The move of this Coy.H.Q. at present would doubtless work a considerable hardship upon these people. Would it be possible for you to enlarge the accommodation at N.8a.75.35, so as to be sufficient for company H.Q. If this could be done without the expenditure of too much time and material, it would be the best solution of the difficulty.

W

Lieut-Colonel,  
General Staff,  
1st Canadian Division.

NB



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**S E C R E T**

CANADIAN CORPS  
G.257/21-10  
10th February, 1918

1st Canadian Division

With reference to the disposal of the spoil from the tunnels, machine gun emplacements, deep dug-outs, etc. it appears that it is practically impossible to camouflage this spoil in such a way that it will not be visible to the enemy.

In future, spoil from the tunnels, dug-outs, machine gun emplacements, etc. will be distributed equally along the parapet and parados of the trench from which the shaft to the tunnel, etc. is dug so as to give the appearance of old trenches being cleaned out.

Care should be taken that there is no extra accumulation of spoil immediately over or in the vicinity of the entrance to the shaft, and that, in the first instance, spoil should be placed on the parapet or parados at some distance from the entrance to the shaft.

The Chief Engineer and Divisions in the Line will issue the necessary instructions.

(Sgd.) P. DeB. RADLIPPE,  
B.G., G.S.  
Canadian Corps.

----- 2 ' -----

1st Canadian Division  
Feb. 10th 1918



- 1st Canadian Inf. Brigade.
- 2nd Canadian Inf. Brigade.
- 3rd Canadian Inf. Brigade.
- C.R.E. 1st Canadian Div.
- D. M. G. C.
- 3rd Australian Tunnelling Coy. ✓
- 1st Canadian Tunnelling Coy.

For your information and compliance, please.

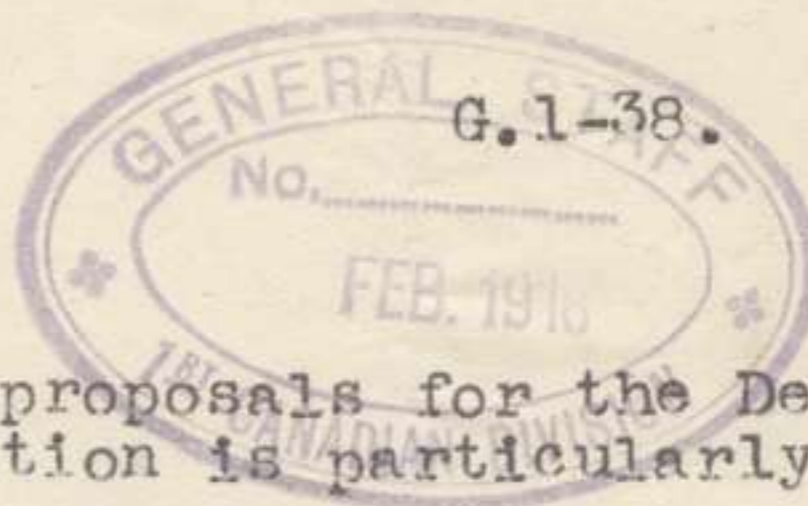
*J. P. ...*  
Lieut. Colonel,  
General Staff,  
1st Canadian Division.

424  
 134  
 118  
 75  
 50  
 243  
 317  
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 50  
 82  
 71  
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 167  
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 219

*113*



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S E C R E T .1st Canadian Division.  
February 10th 1918.3rd Australian Tunnelling Company.  
-----

1. Canadian Corps have asked for our proposals for the Defence of the HYTHE and CANTEEN Tunnels. Information is particularly required on the following points:-

- (a) Defence of the Eastern end of the Tunnels.
- (b) Dispositions of the garrisons.
- (c) Defence against Gas and Fire.
- (d) Protection of Communications.

2. With reference to the above, the following have been suggested:

- (a) A charge should be placed under the Eastern end of the Tunnels so that they may be blown up in case of an enemy attack.
- (b) A diversion should be made near the Eastern end of the Tunnel and the straight gallery should be blocked. The diversion should be fitted with buttresses or strong doors, which would afford cover for a defensive post.
- (c) Infantry exits should be built near the Eastern end of the Tunnel, these exits to lead into short lengths of trench which would be carefully kept hidden, so that the Infantry might man these lengths of trench and be able to bring rifle and machine gun fire, and fire from rifle grenades, to bear on the ground immediately East of the Easternmost Tunnel entrance.
- (d) Telephone wires, cable etc. should be buried to a depth of one foot or so below the floor of the tunnel, in order that they might not be visible to an enemy raiding party who penetrated into the tunnel.

3. Please submit your ideas with regard to the above by last D.R. 15th instant.

A handwritten signature in dark ink, appearing to read "J. Ross".

Lieut-Colonel,  
General Staff,  
1st Canadian Division.

A small, stylized handwritten mark or signature in the bottom right corner of the page.



356 SecretG.1-38 of 10/2/18.  
1st Canadian Division.

General Staff,

1st Canadian Division/

re Defence Scheme for HYTHE & CANTHEEN SUBWAY SYSTEMS.

In reply to your G-1/38 of 10/2/18 the following ideas are submitted:-

(a) MINING DEFENCE (See Sketch "A").

A lateral gallery 5'x 2'3" (F to L on sketch) to be constructed on the East side of the "Gravel Pit" at a level of 120 feet above Ord Datum, with listening galleries as shown. Three tunnels to be constructed under the "Gravel Pit" (F-O, P-N and L-M on sketch) at a R.L. of 160 feet - Shafts to be sunk 40 feet (at L,M,N,O,F on sketch) from which the defensive mine galleries would be constructed.

(b) DEFENCE OF "GRAVEL PIT".

Exits to be made at Q.R. & S. (on sketch "A") and Champagne M.G. emplacements where shown. All other exits into the "Gravel Pit" to be completely closed and the chalk spoil dumped over them.

(c) DEFENCE OF EXITS.

A By-pass and bomb pit to be constructed in each exit also loop-holed traverse with field of loophole looking directly up the incline and through the exit (see sketch "B").

(d) ALARM SIGNALS.

Electric Alarm bells to be installed in all Headquarters with leads connecting to switches at the exits, so that an immediate alarm could be given by the sentries in case of gas or other enemy attack. Code of alarm signals to be posted at each exit and near each alarm bell.

(e) DEFENCE OF TUNNELS.

Loopholes to be constructed at each bend or junction in the tunnel and a bomb-proof sliding loop-holed door under the Reserve Line as shown on sketch "C".

(f) DISPOSITIONS OF GARRISONS.

Sentries with Lewis guns to be posted at each exit. In case of alarm all loopholes should also be immediately manned. A dugout for garrison of each post to be constructed off the tunnel near the foot of each exit. All troops in the garrison to be allocated to definite posts and duties and practice alarms carried out occasionally.

(g) DEFENCE AGAINST GAS.

Double gas doors to be fixed in the galleries leading to each exit. These to be closed by the garrison immediately on alarm. If obtainable, a 24" dia. Sirocco type ventilating fan driven by petrol engine should be installed near the Western entrance to each tunnel system so that a draught of air could be forced through the system in case of the "Gravel Pit" or forward exits being shelled by projectiles or gas bombs.

(h) DEFENCE AGAINST FIRE.

Underground cockhouses, engine rooms and petrol stores, and dugouts where considered necessary will be provided with fire proof doors and a number of filled sandbags will be kept in suitable positions for rapidly constructing barricades. A bucket of sand will be kept near each cockhouse, engine room or dugout to use in extinguishing small fires.

A

J.P.



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A Mine Rescue Station will be situated in the tunnel system and the men on duty will render assistance in rescuing men and extinguishing fire when necessary.

Fire precaution orders to be posted in the tunnels.

(i) DEFENCE OF COMMUNICATIONS.

Signal and telephone wires to be carried through a 1" dia. iron pipe buried twelve inches below the floor of the tunnels. Telephones in the forward parts of the subways systems to be well concealed.

(j) LIGHTING.

Two direct coupled 220 volt 20 Kilowatt Austin Lighting Sets to be installed in engine room near entrance to HYTHE tunnel with leads to tunnels, dugouts, etc., and lamps fixed where required.

(k) COUNTER ATTACK.

It has been suggested that a mine should be laid so that in the event of an enemy occupation of the forward parts of the subways, the tunnel could be destroyed at a point, say 80 yards or so in front of the Reserve Line. I am very strongly against the practice of laying charges in tunnels for defensive purposes. They should only be laid for demolition in the case of a voluntary retirement, when it would be advisable to do as much damage as possible in order to hamper the enemy.

Provided that the traverses, loopholes etc., suggested above are constructed and that the surface at the rear end of the tunnel is held by our troops there should be no difficulty in keeping the enemy out of every part of the subway system. However, in case the enemy is successful in penetrating the forward galleries, the following method of counter attack is suggested:-

Have Constructed a double-ended armoured truck with hinged steel plates opening inwards, loopholed each end and carrying a fixed machine gun. The truck to be manned by two machine gunners with supply of ammunition and bombs. Two other ranks to push the truck. The truck should stand on a siding in the rear end of the subway ready to be manned in case of alarm.

In order to counter attack the truck would be pushed along the tunnel. Each loopholed traverse or other point captured would be manned by troops following behind the truck.

Proposals for the construction of dugouts, aid posts, water supply, store dumps etc., will be put forward separately.

*Alex Sanderson*  
Major,

16/2/18

O.C., 3rd Australian Tunnelling Company.



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Canadian Corps.

C.E. 12/4

- C.R.E. 1st Canadian Division
- C.R.E. 2nd Canadian Division
- C.R.E. 3rd Canadian Division
- C.R.E. 4th Canadian Division
- C.R.E. Corps Troops
- 1st Tunnelling Company C.E.
- 3rd Tunnelling Company ~~C.E.~~ *Australian*
- Cup Yard )
- Corps Expense Stores, Mt. St. Eloy. ) COPY
- No. 2 Forestry Party. )

From demands that are being received for standard 2 1/2" x 8" mining cases, it would appear that these were being used where frames and lagging could be employed.

As the latter are cheaper and the quantity of the former is becoming limited, please take steps to use frames and lagging wherever possible.

When submitting requisitions in future, please state clearly whether "Mining Cases" or "Mining Frames" are required.



*Robert Bogart* Major  
for C.E., Canadian Corps.

*1/18*





Appendix 21.

Canadian Corps.  
C.E. 5-2-6-a

1st Canadian Tunnelling Coy. C.E.

✓ 3rd Australian Tunnelling Coy. C.E.

Reference attached copy of 1st  
Army No. G.S. 1015: Please see that the precautions  
indicated in para. 3 are observed ~~in~~ all future  
dugout construction under your supervision and  
direction. Further instructions will be  
issued regarding para. 5.

*A. J. MacRae Lt*  
Major  
for C.E., Canadian Corps.

11/2/18  
JLHB/RGR

Copy to:  
Canadian Corps "G"

*V.N.B.*



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First Army No. G.S. 1015.

S E C R E T

First Army  
C.A. 158

1. The occurrence of another serious fire in a large dugout system has once again brought to notice the necessity of taking adequate steps to safeguard our troops from the serious effects caused by such a fire.

2. In very large systems unless adequate precautions are taken, one fire is likely to destroy the accommodation of a very large number of men and it is therefore necessary to take such steps as is possible to prevent the occurrence of fire and in any case to localize the effect of one should it occur.

3. It is therefore considered that only in exceptional cases should systems of dugouts be constructed capable of holding more than one company in a single system, and that in all cases the division of the system into definite sections by permanent blocks should be arranged, although it may be necessary for the system to have a common drainage, ventilation and lighting. With this in view Armies should consider the question of breaking up existing large systems of dugouts into smaller sections.

4. In order to further minimize the risk of fire, the use of fires and stoves in underground dugout systems should, as far as possible, be confined to special chambers set apart for the purpose.

5. It would also be a great advantage if permanent dugout Commandants were appointed in the case of all extensive systems and that they should have under their orders fire picquets responsible for all fire precautions and for patrolling the dugout systems at night.

Each picquet should contain, wherever possible, two tunnellers trained in Mine Rescue work, who should be provided with suitable apparatus.

G.H.Q.  
2nd February, 1918.

(Sgd) "E. BUTLER" M.G.  
for Lieutenant-General C.G.S.

( 2 )

SECRET  
Canadian Corps.  
G.205/21-10  
8th February, 1918.

C.E.

Forwarded for information and necessary action.

(Sd) W.R.Bertram,  
Major, G.S.  
for B.G., G.S.  
CANADIAN CORPS.

COPY  
RJR



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Canadian Corps.

D-19

3rd Australian Tunnelling Company

Confirming pencilled note left at your Headquarters today:

Will you please look carefully into the following in connection with the HYPHE and CANTEEN tunnels:

- (a) Gas protection
- (b) The underground system of defense
- (c) Communication.

With reference to (a), a thorough system of defense from gas should be planned and installed.

Regarding (b), plans should be developed for providing blocks in the tunnel in case of the enemy effecting an entrance.

With reference to "Communication", one of the main points to be watched and provided for is communication from front to rear so <sup>concealed</sup> that it would not be immediately noticed and in the event of a party being cut off in the forward portion of the tunnel, they should be able to communicate to the rear.

Will you please take these matters up with your Division and advise this office what steps are being taken.

*E. P. Fethers Tomhaugh*

Captain  
for C.E., Canadian Corps.



*NB*



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Appendix 23

1st Canadian Division.  
February 13th 1918.

3rd Australian Tunnelling Coy.

The Divisional Commander is particularly anxious that the best possible use be made of the spoil from the HYTHE TUNNEL, which you will ~~not~~ be bringing out into the gravel pit.

He suggests using it to construct a revetted wall in front of the entrances to the dugouts.

Will you please say whether this is practicable, and if so, send a rough sketch showing the proposed location of it.

Lieut-Colonel,  
General Staff,  
1st Canadian Division.

W/B



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APPENDIX

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Appendix 24.



1st Canadian Division.  
13th February, 1918.

2nd Canadian Infantry Brigade.  
3rd Austrln. Tunnelling Coy. ✓ for information.

Reference your application for dug-out accommodation in tunnel in CANTEN ALLEY.  
There is no objection to this, but the construction and occupation of the proposed dug-out must not in any way interfere with the work on tunnel.

Major for Lt-Col.  
General Staff.  
1st Canadian Division.

W.B.



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Headquarters.  
2nd Canadian Infantry Brigade.  
February 13th. 1918.

Headquarters,  
1st Canadian Division.  
-----

Application has been made by the Left Battalion for accommodation in dugout, in connection with Tunnelling Work, which exists at approximately N.8.b.2.2 on CANTEEN ALLEY.

At the present time, there is only one recess which is used for storing the spoil during the day, but if we were allowed to construct another chamber which the Tunnellers advise us could be done, and wasting our spoil through another passage not used by them and not in any way interfering with them, it would save us all the labour of commencing an entirely new work.

The Tunnellers however, state they require higher authority in this respect.

May we be advised by wire please, if this can be arranged.

(sgd) ?

B.M.797.

Major,  
A/Brigade Major,  
For G.O.C., 2nd Canadian Infantry Brigade.



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APPENDIX

25

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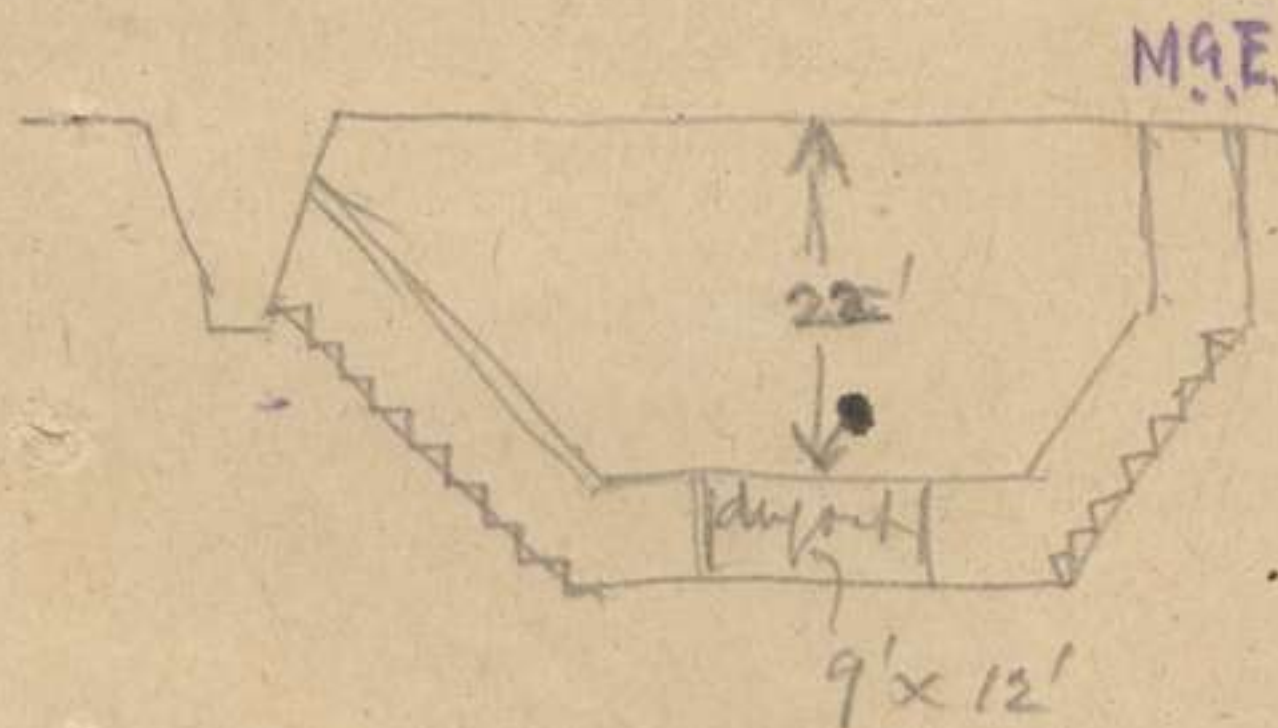
Appendix 25  
 CHIEF ENGINEER  
 2098  
 1st CORPS

O.C. 3<sup>rd</sup> Aust<sup>h</sup> T.C.

Herewith sketch  
 of low locality  
 showing position  
 of d.o's + M.G.'s -  
 I am arranging for  
 working party.

J.W. Ryan  
 B.S.  
 CEI Corps

13/2/18

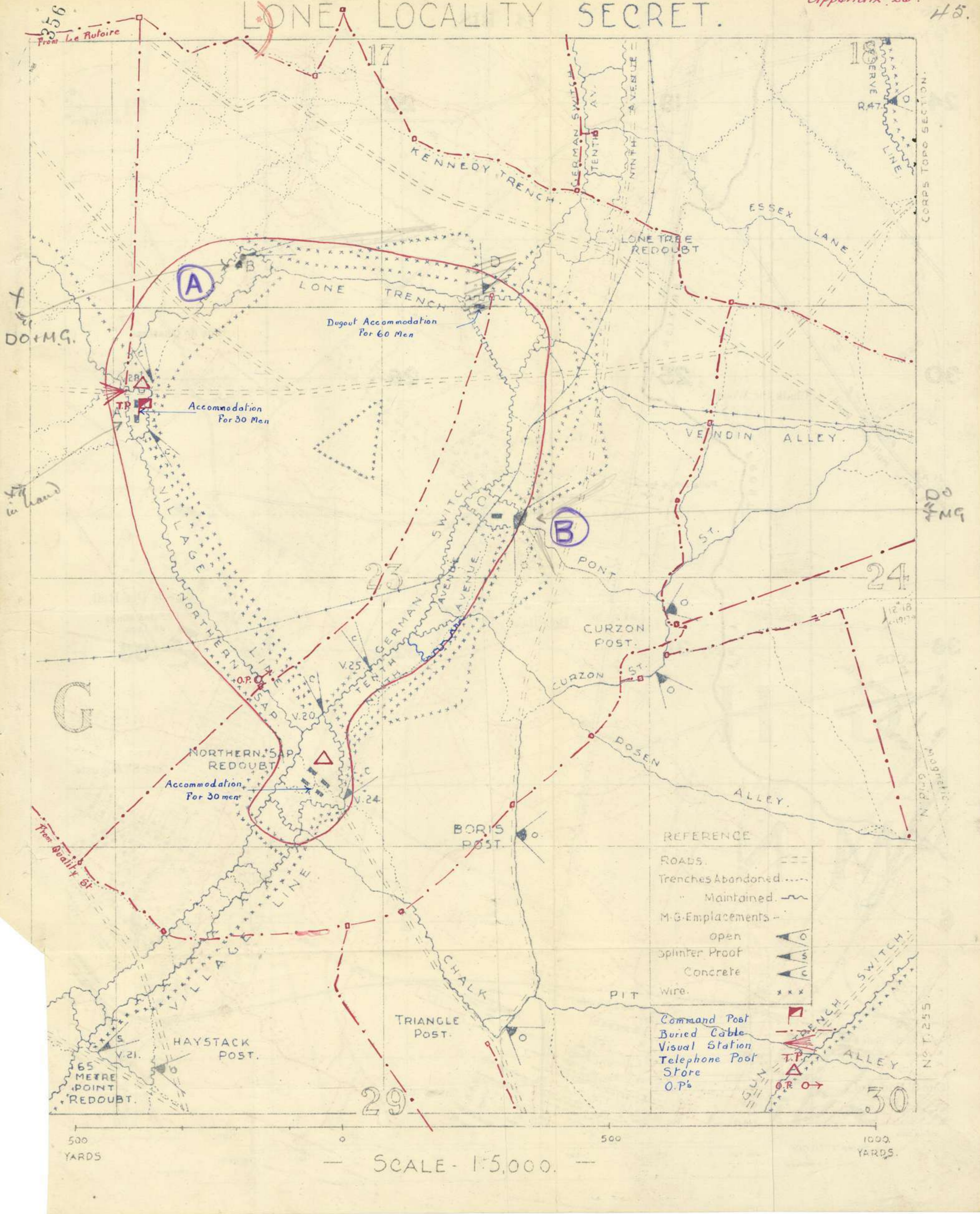




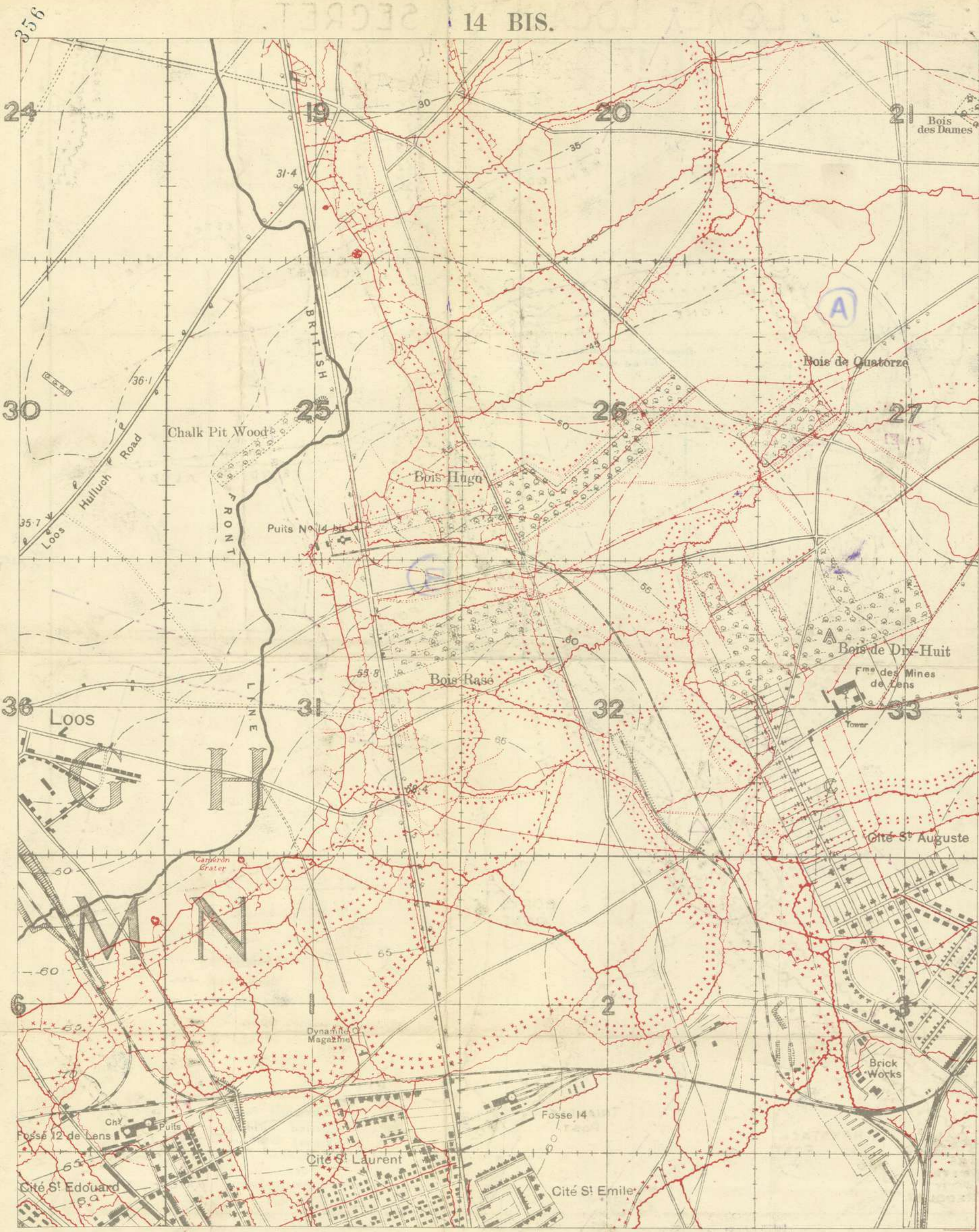
# LONE LOCALITY SECRET.

Appendix 25.

45.







G.S.G.S. 3368.

Scale 1:10,000

Kilometre 1

Yards 100 0

500

1000

1500

1700 Yards

1 Mile

Ordnance Survey, January 1917.

1 Kilometre



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*Appendix 26.*

(Copy).

A.I.FORCE, H.Q.;  
1st Anzac Corps,  
13th February 17,  
45/198.

The O.C.,  
3rd Aust.Tunnelling Coy./-

Your A.M.08 of the 3rd inst forwarding an application for appointment to commissioned rank from No.967 Cpl.JOH. COLLINSON, was passed to the O.C., 2nd Australian Pioneer Battalion, for consideration--there being several vacancies for commissioned officers in that unit.

2. A reply has been received that his transfer is desired with a view to his appointment to commissioned rank, and that he will be required to first prove himself in his new unit.

3. Will you please state whether this is acceptable to Corporal Collinson; and if so, and you concur, send him to report to the O.C., 2nd Aust.Pioneer Battalion, as early as convenient. Advice should be furnished to this office by telegram of the date on which he will leave.

(Sgd) W.Jennings, Capt.,  
Lieut-Col.,  
A.A.G., A.I.F.



13th February, 1918.

- 356
1. The 3rd Canadian Infantry Brigade will be relieved in the HILL 70 Sector, by the 1st Canadian Infantry Brigade on the night February 16th/17th, 1918.
  2. Moves and reliefs will be carried out in accordance with the attached table.
  3. All details of the relief, including guides, will be arranged direct between Commanding Officers concerned.
  4. Defence Schemes, Maps, Papers, Aeroplanes Photographs, etc. will be handed over and receipts obtained.
  5. Permanent working parties with Tunnelling Company will be relieved before the night shift on February 16th. All other working parties will be relieved by 8 p.m. February 16th.
  6. Command of the Line will pass to G.O.C. 1st Canadian Infantry Brigade on completion of the relief.
  7. Completion of relief will be notified by wire to Brigade Headquarters, using the code word "WEDD".
  8. On relief, the 3rd Canadian Infantry Brigade will be in Divisional Reserve. Brigade Headquarters will be at LES BRUBIS.
  9. ACKNOWLEDGES.

*J. H. Kew*  
Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.

DISTRIBUTION:

- Copy No. 1 13th Battalion (ROYAL HIGHLANDERS OF CANADA).  
2 14th Battalion (ROYAL MONTREAL REGIMENT.)  
3 15th Battalion (48th HIGHLANDERS OF CANADA.)  
4 13th Battalion (CANADIAN SCOTTISH).  
5 3rd Can. Trench Mortar Battery.  
6 O.C. No. 4 Section 1st Div'l. Signal Coy.  
7 2nd Sig. Coy., C.E.  
8 33rd Infantry Brigade.  
9 2nd Canadian Infantry Brigade.  
10 3rd Australian Tunnelling Coy.  
11 1st Canadian Infantry Brigade.  
12 1st Canadian Division "G".  
13 1st Canadian Division "C".  
14 Canadian Corps "G".  
15 1st Canadian Div'l. Artillery.  
16 G.O.C., 1st Canadian Division.  
17 G.O.C.  
18 Brigade Major.  
19 Staff Captain "G".  
20 Staff Captain "I".  
21 Office.  
22-26 War Diary.



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RELIEF TABLE - issued with 3rd Canadian Infantry Brigade Operation Order No.224.

SERIAL	DATE	UNIT	FROM	TO	RELIEVED BY	REMARKS
1.	Night 16/17th	13th Battalion. (ROYAL HIGH <sup>S</sup> of CANADA)	Front Line Right.	BRACQUEMONT.	1st Cdn. Battn.	
2.	"	14th Battalion. (ROYAL MONTREAL REGIMENT)	Reserve.	BULLY-GRENAY.	4th Cdn. Battn.	
3.	"	15th Battalion. (48th HIGH <sup>S</sup> of CANADA.)	Left Front Line.	FOSSE 10.	2nd Cdn. Battn.	
4.	"	16th Battalion. (CANADIAN SCOTTISH)	Support.	HAZINGARIE.	3rd Cdn. Battn.	
5.	"	3rd Cdn. T. H. Battery.	Line.	BULLY-GRENAY.	1st Cdn. T.M. Battery.	
6.	"	3rd Cdn. Inf. Bde. H.Qrs.	PREVITE CASTLE.	LES BREBIS.	1st Cdn. Inf. Bde. H.Qrs.	

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APPENDIX 27



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SECRET.  
\*\*\*\*\*  
Copy No. 9.

1ST CANADIAN INFANTRY BRIGADE  
OPERATION ORDER NO. 196.

\*\*\*\*\*

Ref. Maps -

February 13th, 1918.

- Sheet 36E. 140,000
- LENS 36C S.W.1 1/10,000
- LOCS 36C N.W.3 1/10,000

1. (a) In accordance with 1st Canadian Division Operation Order No. 232, 1st Canadian Infantry Brigade will relieve the 3rd Canadian Infantry Brigade in the HILL 70 Section on the night of 16th/17th February, 1918.  
(b) Moves and reliefs will be carried out in accordance with attached March Table.
2. Details of relief including guides, etc., will be arranged direct between C.O.'s concerned.
3. Units will send forward Advanced Parties tomorrow the 14th instant to reconnoitre the line.
4. Disposition Sketches, Inventory of Stores will be forwarded to reach Brigade Headquarters by noon D.R. the 17th inst. and Trench and Wire Return by noon D.R. the 18th instant.
5. Defence Schemes, documents, maps, aeroplane photographs, etc., will be taken over from outgoing units.
6. Administrative Instructions will be notified separately by Staff Captain "Q".
7. The following permanent working parties will be taken over:-

Battalion.	Personnel	Report to.	Time.	Remarks.
1st	1 Off. 6 N.C.O's & 62 men.	3rd Australian Tun. Coy. at G.36.d.9.6.	8.00 p.m. Feb. 16th.	This party will start work at 10. p.m. Will be billeted and rationed by Tun. Coy.
2nd	1 Off. 6 N.C.O's.& 62 men.	do.	do.	Billeted and rationed by Tunnelling Coy.
3rd	1 Off. 6 N.C.O's & 62 men.	do.	do.	do.
4th	1 Off. 8 N.C.O's & 84 men.	2nd Field Coy. C.E. G.28.c.7.2.	6.30 p.m.	Billeted and rationed by Field Coy.

8. The G.O.C. 1st Canadian Infantry Brigade will assume command of the area on completion of the relief.
9. Completion of relief will be wired to Brigade Headquarters by use of Code Word "JOHN".
10. Acknowledge.

*D. L. Curran Ham*  
Captain,  
A/Brigade Major,  
1st Canadian Infantry Brigade.



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Issued through Signals at 7.00 p.m.

- Copy No. 1 - 1st Canadian Battalion.  
 2 - 2nd Canadian Battalion.  
 3 - 3rd Canadian Battalion.  
 4 - 4th Canadian Battalion.  
 5 - 1st Canadian T. H. Bty.  
 6 - No. 2 Sec. Div. Sig. Coy.  
 7 - No. 2 Coy. Div. Train.  
 8 - 2nd Field Coy. C.E.  
 9 - 3rd Australian Tunnelling Coy. X  
 10 - 1st Canadian Division G.  
 11 - 1st Canadian Division Q.  
 12 - D.H.G.C.  
 13 - Canadian Corps G.  
 14 - A.P.H. Canadian Corps  
 15 - 2nd Canadian Infantry Brigade.  
 16 - 3rd Canadian Infantry Brigade.  
 17 - Brigade on Left.  
 18 - G.C.C.  
 19 - Brigade Major,  
 20 - Staff Captain, I.  
 21 - Staff Captain A & Q.  
 22 - Orderly Officer.  
 23 - Brigade Warin. Officer.  
 24 - File.  
 25-27 - War Diary.



26/4

Parties going forward to reconnoitre the forward area will keep to the trenches East of the RIDGE VILLAGE LINE.

Serial No.	Date.	Unit.	From.	To.	Relieving.	Remarks.
1.	16th. Feb.	1st Cdn. Bn.	BULLY GREY.	Front Line	15th Cdn. Bn.	Head of column not to pass the square R.5.0.3.8. In Bully Grey before 5.00 p.m.
2.	do.	2nd Cdn. Bn.	BRAQUENONT.	Front Line	15th Cdn. Bn.	Head of column not to pass square, R.5.0.3.8. In BULLY GREY before 5.30 p.m.
3.	do.	3rd Cdn. Bn.	FOSSÉ 10	Support	16th Cdn. Bn.	Head of column not to pass square, R.5.0.3.8. In BULLY GREY before 6.00 p.m.
4.	do.	4th Cdn. Bn.	HAZINGARBE.	Reserve	14th Cdn. Bn.	Not to leave HAZINGARBE before 5.30 p.m.
5.	do.	1st C.T.L.N.B.	BULLY GREY	Line.	3rd C.T.L.N.B.	
6.	do.	1st C.I.B.	LES BRÉBIS	Line	3rd C.I.B.	

MOVE TABLE TO ACCOMPANY 1ST CANADIAN INFANTRY BRIGADE OPERATION ORDER NO. 186.

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Appendix 28-iv  
27a.  
51



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1st. Canadian Division.  
15th. February 1918.

G. 4-47

- 1st. Canadian Infantry Brigade.
- 2nd. Canadian Infantry Brigade.
- 3rd. Canadian Infantry Brigade.
- ✓ 3rd. Australian Tunnelling Co. (for information).



With reference to the permanent Working Parties attached as Spoil men to the 3rd. Australian Tunnelling Co., for work on the HYTHE and GANTERN Tunnels, In view of the great urgency of this work, and the fact that the number of Spoil men has been carefully estimated so that there are just sufficient to dispose of the Spoil each Shift, Brigades will replace men on these Working Parties who become Casualties, go sick, go on Leave or for any other reason are withdrawn, immediately.

*J. H. Harcourt*

Lieut. Colonel.  
General Staff.  
1st. Canadian Division.

*N.B. Sgt.*

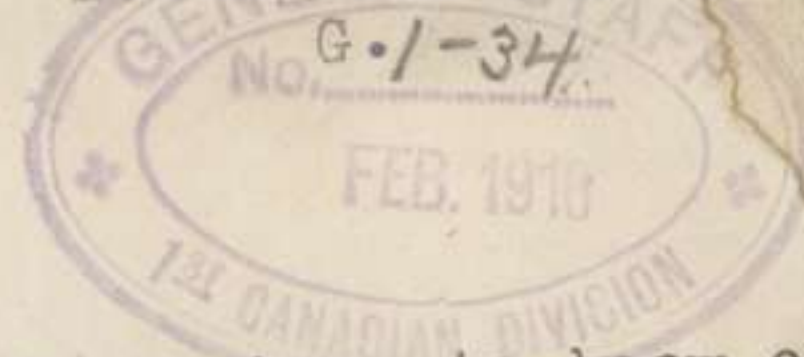




Secret.

*Appendix 29.*

1st. Canadian Division.  
16th. February 1918.



3rd. Australian Tunneling Co.  
-----

The Divisional Commander is anxious to know on what date you will begin the enlargement and strengthening of the cross walls in the southern end of the Gravel Pit with Spoil taken from the Tunnel.

Will you please state when this will be started.

The C.R.E. has been ordered to put up the necessary Camouflage and this should have been completed by now.

The D.M.G.C. has been ordered to stake the correct position for the Champagne Machine Gun Emplacement near the North East corner of the Gravel Pit, so that you will be in no way delayed in getting this important position completed.

Lieut. Colonel.  
General Staff.  
1st. Canadian Division.

*Sgt. M.B.*



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33rd Infantry Brigade No. 7/M3/2764.

16th February 1918.

Lincolns,	33rd L.T.M.Btty.	) For information.
Staffords,	68th Field Coy. R.E.	
Sherwoods,	3rd Australian Tunn. Coy. ✓	
33rd M.G.Coy.	33rd Brigade Supply Officer.)	
250th M.G.Coy.	11th Division Train.	

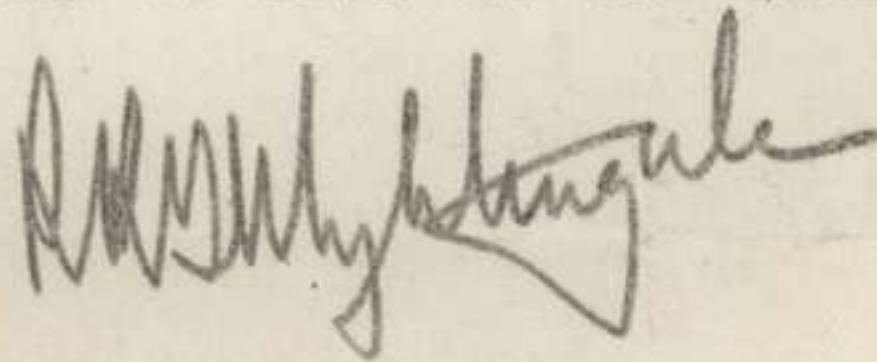
-----

Officers in many cases do not realise the necessity of concealment ~~of~~ in the present sector. The greater part of the line is overlooked by the enemy but because at present this is a quiet sector foolish liberties are taken daily which give away the position of H.Q. posts dumps etc.

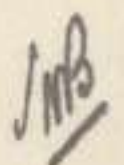
During daylight not only must unnecessary movement in the open be prevented but the practise of allowing smoke to issue from kitchens must be stopped. This does not matter so greatly in the case of the tunnels where there is sufficient cover from shelling but for kitchens in trenches to advertise their position daily to the enemy is only to ask for casualties.

The B.G.C. wishes C.Os. to take this matter up and hopes that he will no longer daily have to check some unit for carelessness in this matter. Although this may not have drawn down hostile shelling up to the present, it means however, that the enemy are noting down the various positions of H.Q. etc. and that when they wish they will carry out destructive shoots on these places.

The Supply Officer will issue as much coke in lieu of coal as units in Front Line wish to draw and only this nature of fuel will be used from dawn to dusk in the line in future.



Captain,  
Staff Captain,  
33rd Infantry Brigade.



t



2/26



*Appendix 31*

S E C R E T  
 1st Canadian Division  
 Feby. 17th 1918  
 G.4-48

3rd Australian Tunnelling Coy.  
 C.R.A. (for information)  
 -----



Ref. this office G.4-48/1 of 5th Feby.  
 The G.O.C. directs that the work of tunnelling to  
 this Tank Gun Emplacement shall be first in the list of priority  
 of inclines from the HYTHE Tunnel.  
 Please say when this work will be commenced.

*J. Parsons*  
 Lieut. Colonel,  
 General Staff,  
 1st Canadian Division.

*1/B sent:*



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SECRET.  
1st Canadian Division.  
February 17th 1918.



2nd Can. Inf. Bde.  
3rd Australian Tunnlg Coy (for information)

Owing to the increasing distance, which spoil has to be transported in the CANTREN TUNNEL, the number of spoil men is not at present sufficient.

Please detail 15 additional spoil men, per shift, (total 48) for this work.

ACKNOWLEDGE.

17/2/18.

Lieut-Colonel,  
General Staff,  
1st Canadian Division.

Lt. Mc Ardell

18/2/18.

For information and return

Alex. Sanderson  
Major

Lowes

N.B.



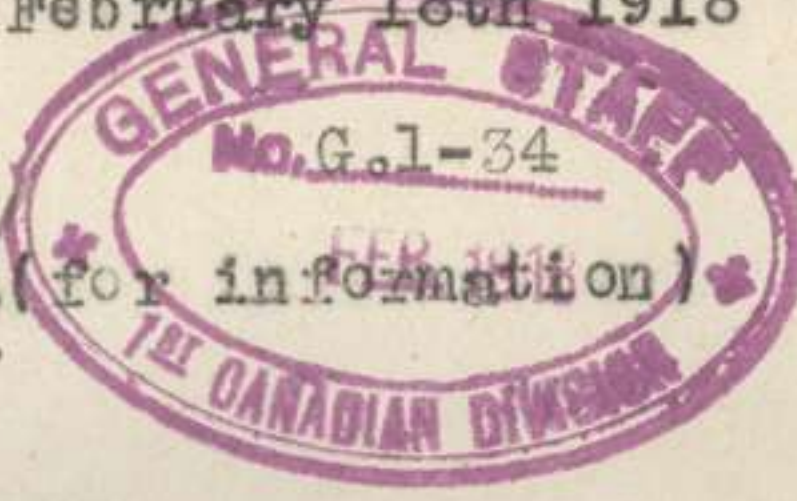
256.

Appendix 33.

Rec'd 28 Feb 1918

S E C R E T

1st Canadian Division  
February 18th 1918



3rd Canadian Inf. Brigade.  
3rd Australian Tunnelling Coy. (for information)

Owing to the increasing distances which spoil has to be transported in the HYTHE Tunnel the number of spoil men is not at present sufficient.

Please detail 16 additional spoil men per shift (total 48) for this work.

Please acknowledge. ✓

*L.P. Rowland*

Lieut. Colonel;  
General Staff,  
1st Canadian Division.

VNB.





C.E., I Corps No. 2881.

0.8356  
 O.C., 3rd Australian Tunnelling Coy. ✓  
 O.C., 170th Tunnelling Coy., R.E.  
 O.C., 428th Field Coy., R.E.  
 O.C., 429th Field Coy., R.E.  
 O.C., 468th Field Coy., R.E.  
 -----

Work on Defences.

Please forward a Report each week made up to Thursday evening so as to reach this Office by midday Friday, shewing the percentage of work completed.

*J. Morgan*

Captain, R.E.  
 for Chief Engineer, I Corps.

20.2.18.

*A. B. G. T.*

Appendix 34.

Canadian Corps.  
C.E. 103/16-2.

Corps Camouflage Officer:

The following letter has been received from O.C. 3rd Australian Tunnelling Company:

"Great difficulty is being experienced in camouflaging the chalk spoil from the tunnels.

I would like to experiment in spraying the spoil with some cheap form of dye.

Permanganate of Potash and brown ochre mixed with water and sprayed with a paint or vermonal sprayer have been suggested as suitable materials for the purpose.

Can a supply of these materials be obtained please?"

Will you please take this question up direct with this unit.

COPY TO:-  
 O.C. 3rd Australian Tunlg. Coy.

*J. G. G.*  
 for C.E., Canadian Major Corps.



*J. B. G. T.*



1/10/41  
Canadian Corps.

10:-

Dear Sir

Reference is made to your letter of the 2nd inst.

in relation to the proposed extension of the  
period of the contract for the supply of  
ammunition to the Canadian Corps. The  
proposal is being considered by the  
War Office and it is expected that a  
decision will be reached in the near  
future. The extension of the contract  
will be subject to the approval of the  
War Office and the necessary arrangements  
will be made accordingly.

Yours faithfully,  
The Director of Ordnance Services

10/10/41  
Director of Ordnance Services

10/10/41

1/10/41

Dear Sir

Reference is made to your letter of the 2nd inst.

- 1. The proposed extension of the contract for the supply of ammunition to the Canadian Corps.
- 2. The proposal is being considered by the War Office and it is expected that a decision will be reached in the near future.
- 3. The extension of the contract will be subject to the approval of the War Office and the necessary arrangements will be made accordingly.

10/10/41



Copy

Appendix 36.

A.M. 1/614

SECRET.

The Controller of Mines,  
Advanced 1st Army.

Herewith, please, a copy of some proposals re defence of Hythe and Canteen Tunnels.

I consider that the immediate defence of Mason's House against a small enemy mining offensive is urgent. It is a very important isolated tactical position within about 100 yds of the enemy front line, and sounds of work (Enemy mining-not definitely identified) have occasionally been heard from this point.

The mining defence of "The Gravel Pit", although, perhaps, not so urgent on account of the greater distance to the enemy front line, should also be commenced. This locality is being made a very strong point in the Hill 70 defence Scheme.

On account of the urgency of the work mentioned, would it be possible, please, to secure some tunnelling assistance?

Alex. Sanderson

Major,

O.C. 3rd Australian Tunnelling Company.

20/2/18.

VNB.



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Appendix 37. 60.

SECRET.

G.1809.

Headquarters,  
3rd Canadian Infantry Brigade,  
21st February, 1918.

- 15th Cdn. Battn.
  - 14th Cdn. Battn.
  - 15th Cdn. Battn.
  - 16th Cdn. Battn.
  - 3rd Australian Tunnelling Coy.
  - 2nd Canadian Infantry Brigade.
- 

Permanent Working Parties with 3rd Australian Tunnelling Company on CANTEREN and HYTHE Tunnels.

1. The following permanent working parties will be furnished by units of the 3rd Canadian Infantry Brigade, while in the ST.EMILE Section.

a.	15th Battn.	1 off.	3 N.C.O's.	58 O.R.	for CANTEREN TUNNEL.
b.	14th Battn.	1 off.	3 N.C.O's.	59 O.R.	" " "
c.	16th Battn.	1 off.	3 N.C.O's.	59 O.R.	" " "
d.	15th Battn.	-	1 N.C.O.	10 O.R.	" " "
e.	15th Battn.	1 off.	2 N.C.O's.	48 O.R.	" HYTHE TUNNEL.

2. These parties will relieve parties of 2nd Canadian Infantry Brigade before the night shift on February 24th.  
Parties will report at Tunnelling Company Advanced Headquarters before 9 p.m.

3. Officers detailed for this duty will visit 3rd Australian Tunnelling Company Advanced Headquarters on 23rd inst. to arrange details of relief.  
Headquarters for CANTEREN TUNNEL (will be notified by wire).  
Headquarters for HYTHE TUNNEL - LOC 6 - G.36.d.4.6.

4. The following orders from 1st Canadian Division with reference to parties attached to Tunnelling Companies, will be complied with, -

- (1) Parties detailed by each Brigade will not be changed during the Brigade tour.
- (2) Any men withdrawn from working parties, owing to sickness or to go on leave or courses, will be replaced at once by their units.

5. Please acknowledge. ✓

*Jenkins*

Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.

*a (above)*  
*d*  
*and 12 Sappers*  
*2 - of No 1 Section*  
} to go to Hythe on Thursday 28/2/18

*118*



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SECRET.1st. Canadian Division.  
21st. February 1918.  
G. 3-48.1ST. CANADIAN DIVISION.OPERATION ORDER No. 233.

1. The 3rd. Canadian Infantry Brigade will relieve the 2nd. Canadian Infantry Brigade in the ST. EMILE SECTION as follows:-  
On the night February 24/25th, 1918 - Left Sub-section and Reserve Battalion.  
On the night February 25/26th, 1918 - Right Sub-section and Support Battalion.  
Command will pass on completion of relief which will be wired to Divisional Headquarters using the Code Word "VAN".
2. All Maps, Papers, Aeroplane Photographs and Instructions will be handed over to the relieving Brigade.
3. Permanent Working Parties with the Tunnelling Company will be relieved before the night shift on February 24th.  
All other Working Parties will be relieved by 9 p.m. on the night of each Sub-section relief.
4. All details of relief will be arranged direct between Brigadiers concerned.
5. On completion of relief the 2nd. Canadian Infantry Brigade will be in Divisional Reserve, with Headquarters at LES BREBIS.
6. ACKNOWLEDGE.

*H. Parson*  
Lieut. Colonel,  
General Staff,  
1st. Canadian Division.

Issued through Signals 1.15 p.m.DISTRIBUTION -

Copy No. 1 - 1st. Cdn. Divl. Artillery.	20 - 21st. Brigade R.G.A.
2 - 1st. Cdn. Inf. Brigade.	21 - D.G.O.
3 - 2nd. Cdn. Inf. Brigade.	22 - War Diary.
4 - 3rd. Cdn. Inf. Brigade.	23 - War Diary.
5 - 1st. Cdn. Divl. Engineers.	24 - War Diary.
6 - 1st. Cdn. Divl. Signal Co.	25 - General Staff.
7 - 1st. Cdn. Divl. Train.	
8 - 107th. Cdn. En. (Pioneers)	
9 - D.M.G.C.	
10 - A. and Q.	
11 - A.D.M.S.	
12 - A.P.M.	
13 - Canadian Corps.	
14 - Canadian Corps.	
15 - 2nd. Canadian Division.	
16 - 11th. (Imperial) Division.	
17 - 3rd. Australian Tunnelling Co.	
18 - 1st. Canadian Tunnelling Co.	
19 - A.D.P.S. Canadian Corps.	



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3rd Canadian Infantry Brigade.  
Operation Order No. 225.

SECRET.

Copy No. 6

21st February, 1918.

1. The 3rd Canadian Infantry Brigade will relieve the 2nd Canadian Infantry Brigade in the ST. EMILE Section on the nights February 24th/25th and February 25th/26th.
2. Reliefs will be carried out in accordance with the attached table.  
All details, including arrangements for guides, will be arranged direct between Commanding Officers concerned.
3. Permanent working parties with the 3rd Australian Tunnelling Company will be relieved before the night shift on February 24th.  
All other parties will be relieved by 9 p.m. on the night of each sub-section relief.
4. All maps, aeroplane photographs, defence schemes and instructions will be taken over by incoming units.
5. Completion of relief will be notified to Brigade Headquarters by wire, using the code word "SILVER".
6. The G.O.C. 3rd Canadian Infantry Brigade will assume command of the ST. EMILE Section on completion of relief on the night February 25th/26th.
7. ACKNOWLEDGE. ✓

Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.

DISTRIBUTION.

- |          |       |   |
|----------|-------|---|
| Copy No. | 1     | 13th Battalion (ROYAL HIGHLANDERS OF CANADA.) |
|          | 2     | 14th Battalion (ROYAL MONTREAL REGIMENT.)     |
|          | 3     | 15th Battalion (48th HIGHLANDERS OF CANADA.)  |
|          | 4     | 16th Battalion (CANADIAN SCOTTISH).           |
|          | 5     | 3rd Canadian Trench Mortar Battery.           |
|          | 6     | 3rd Australian Tunnelling Company.            |
|          | 7     | 1st Canadian Infantry Brigade.                |
|          | 8     | 2nd Canadian Infantry Brigade.                |
|          | 9     | 1st Canadian Division "G".                    |
|          | 10    | 1st Canadian Division "H".                    |
|          | 11    | Canadian Corps "G".                           |
|          | 12    | 1st Canadian Divisional Artillery.            |
|          | 13    | D.S.G.C., 1st Canadian Division.              |
|          | 14    | G.O.C.  |
|          | 15    | Brigade Major.                                |
|          | 16    | Staff Captain "G".                            |
|          | 17    | Staff Captain "I".                            |
|          | 18    | O.C. No. 4 Sect. 1st Div. Sig. Coy.           |
|          | 19    | Office.                                       |
|          | 20-24 | War Store.                                    |
|          | 25    | 5th Canadian Infantry Brigade.                |

P.T.O.



## RELIEF TABLE, issued with 3rd Canadian Infantry Brigade Operation Order No. 225.

SERIAL NO.	DATE	UNIT	FROM	TO	RELIEVING	T. RS.	REMARKS.
1.	Feb. 24th	14th Batta. (R. R.)	BULLY-GREMY	Front Line Left Sub-section.	10th Cdn. Bn.	H. 7.5.40.05.	To leave BULLY-GREMY at 5.30 p.m.
2.	Feb. 24th	15th Batta. (48th I. of C.)	FOSSI 10.	Brigade Reserve	7th Cdn. Bn.	H. 17.2.43.99.	In rear of 14th Battalion.
3.	Feb. 24th	3rd I.T. Battery.	BULLY-GREMY	Front Line	2nd I.T. Battery.		
4.	Feb. 25th	15th Batta. (Cdn. Sect.)	HAZINGARIE	Front Line Right Sub-section	5th Cdn. Bn.	H. 12.1.99.75.	To clear HAZINGARIE at 5.50 p.m.
5.	Feb. 25th	15th Batta. (R.H.C.)	BRANVILLOTT	Brigade Support	8th Cdn. Bn.	H. 11.2.93.50.	In rear of 16th Battalion.
6.	Feb. 25th	3rd C.I. Bde. H. rs.	LES BRASSIS	CITE ST. PIERRE.	2nd C.I. Bde. H. rs.	H. 11.2.90.05.	Rear Bgde. H. Gns. will remain in LES BRASSIS.

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APPENDIX 39



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Copy

Appendix 40.

A.M.1/617.

C.E., 1st Corps No. 8881.

C.E.,

1st Corps/

Work on Defences.

Percentage of work completed up to end of 31/3/18.

Command Post Headquarters:-

G.23a	20.70	Howson's Post	50%	completed.
G.6d	6.5	Chapel Alley Post	45%	"
G.12b	5.1	Fosse 3 Post	35%	"
G.16a	9.5	Le Rucire Post	10%	"

M.G. Emplacements:-

G.23b	5.3	Near Pont St.	35%	"
G.17c	5.2	Near Lone Trench	35%	"

*Alex Summers*

Major,

31/3/18.

O.C., 3rd Australian Tunnelling Company.

MBV



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Appendix 40.

A.M. 1/644.

C.E. 1st Corps No 2881.

C.E.

1st Corps/

Work on Defences.  
-----

Percentage of work completed upto end of 28/2/18.

Command Post Headquarters:-

G.23a	20.70	Hewson's Post	75%	completed.
G.9d	60.50	Chapel Alley Post	75%	"
G.19b	50.10	Fosse 3 Post	60%	"
G.16b	20.50	Le Rutoire Post	50%	"

Machine Gun Emplacements:-

G.23b	50.30	Near Pont Street	75%	"
G.17c	50.30	Near Lone Trench	75%	"

28/2/18.

Major,

O.C. 3rd Australian Tunnelling Company.



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Appendix 41.

SECRET.

CANADIAN CORPS.  
G.757/20-7.  
Feb. 23rd, 1918.

4th Cdn. Div.  
1st Cdn. Div.  
3rd Australian Tunnelling Co.  
-----

1. In accordance with the wish expressed by the Corps Commander at the conference on Feb. 21st, the 4th Cdn. Div. will detail 64 O.R. from the 4th Cdn. Div. Engineers and 124th Pioneer Battn to be attached to the 3rd Australian Tunnelling Co. for work as Face men on CANTERN TUNNEL. The 4th Cdn. Div. will also detail 148 O.R. from the 124th Cdn. Pioneer Bn. to act as carrying party for work with the 3rd Australian Tunnelling Co. on CANTERN TUNNEL.
2. Details regarding the move will be made direct between 4th Cdn. Div. and 3rd Australian Tunnelling Co.
3. The above parties will be attached for administration and billets to the 3rd Australian Tunnelling Co. and will be under the 1st Cdn. Div. for tactical purposes.
4. The necessary complement of Officers and N.C.O's will accompany these parties.
5. Please acknowledge on enclosed form. ✓

*L. R. Burton*  
*1918*  
 B.G., G.S.,  
 Canadian Corps.

Copy to - C.E.  
D.A. & Q.M.G.

*MB.*



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S E C R E T.4th Cdn. Div.  
G.7-3

C.R.E., 4th Canadian Division.  
 124th Cdn. Pioneer Battn.  
 3rd Australian Tunnelling Coy. ✓  
 1st Canadian Division.  
 A.A. & Q.M.G.  
 -----

1. The 4th Canadian Division has been ordered to take over some work on CANTREN TUNNEL as Face men under the 3rd Australian Tunnelling Coy.  
 CANTREN TUNNEL is in the 1st Canadian Division Sector.
2. C.R.E., 4th Canadian Division will detail 64 other ranks from 4th Cdn. Div. Engineers and 124th Pioneers to be attached to 3rd Australian Tunnelling Coy for work as Face men. He will also detail 148 other ranks from 124th Pioneer Battalion to act as carrying party, and to work with the 3rd Australian Tunnelling Coy.  
 Both above parties to work on CANTREN TUNNEL.
3. All details regarding move to be arranged direct between C.R.E., 4th Canadian Division and O.C., 3rd Australian Tunnelling Coy.
4. The necessary complement of Officers and N.C.Os. will accompany these parties.
5. The above parties will be attached for administration and billets to the 3rd Australian Tunnelling Coy, and will be under the 1st Canadian Division for tactical purposes.
6. C.R.E. to acknowledge.

*Th. Bennett*

Major,  
 General Staff,  
 4th Canadian Division.

24th February, 1918.

*VWB.*



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Appendix 43.  
C.E. D-19/277

SECRET.

C.M. 762  
First Army.

O.C., 3rd Aust. Tun. Coy.  
(thro' C.E. Cdn. Corps).  
-----

Reference your A.M. 1/614 of 20.2.18 and subsequent discussions, I agree that the underground defence of Mason's House, by a limited and strictly defensive mining system, is desirable. Not only will this provide the protection that is necessary in view of the advanced position and tactical importance of this salient, but the results will also throw light on the question of a possible revival of enemy mining activity in this area as a whole.

It has been assumed that the enemy has given up offensive mining, but our evidence has been based on his policy when strictly on the defensive.

Alertness for signs of mining activity is now essential at all times.

I will take up the question of men required for this mining and for listening, direct with Chief Engineer, Canadian Corps.

First Army, H.Q.,  
25th Feb., 1918.

*R. Stokes*  
Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

*as*  
*pa.*  
*Jro*  
*Loac*  
*EPF*  
*26/2/18*  
*P.T.O.*  
*V.S.S.*  
*M.B.*



3rd Hussar Regiment Co.

O.M. 111  
First Army

Canad

W. H. ...  
W. H. ...

22  
2/2  
10

for CT

Major-General R. B. ...  
Controller of ...  
First Army

First Army ...  
...



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Appendix 44.

1st Canadian Division  
Feb. 26th 1918

3rd Canadian Inf. Brigade.  
C.R.E., 1st Can. Div.  
3rd Australian Tunneling Coy. ✓  
A. and O.

---

The 4th Canadian Division have been ordered to supply the personnel for the work on CANTERN Tunnel, under 3rd Australian Tunneling Coy.

The following party now working there will be transferred to HYTHE Tunnel:-

1 Officer, 3 N.C.O's. 58 men of 13th Battalion.  
1 N.C.O. 10 men of 15th Battalion.  
12 Sappers of 1st Field Coy., C.E.

The above mentioned parties will report at Noon, 28th Feby. at Hd. Qrs. for HYTHE Tunnel, LOOS G.36.d.4.6.

Parties will be billeted and rationed by the 3rd Australian Tunneling Coy. Any further arrangements as to time this party will cease work on CANTERN Tunnel will be arranged by the 3rd Australian Tunneling Coy.

*Col. Vandenberg*

Lieut. Colonel,  
General Staff,  
1st Canadian Division.

VNB



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Appendix 45.

SECRET

1st Canadian Division  
Feby. 27th 1918

C.R.E., 1st Canadian Division  
3rd Australian Tunnelling Coy.  
-----

The following are the proposals for the  
defence of the GRAVEL PIT at the head of the HYTE  
Tunnel:-

1. Close Eastern Tunnel Exit into Gravel Pit permanently.
2. Fill Gravel Pit with wire.
3. Permanently close exits from Dugouts into Gravel Pit.
4. Construct three additional exits from Western parts of Dugouts.
5. Construct camouflaged trench along West lip of Gravel Pit connecting all exits from Dugouts.
6. Construct C.T. from HYTE ALLEY to new Trench, and clean out HYTE Trench (old).
7. Construct Champagne Type M.G.E's. at N.E. corner of Gravel Pit connected with Tunnel.
8. Construct wall across South end of Gravel Pit with spoil from Tunnel and wire it on the South side.

Please acknowledge receipt. ✓

Lieut. Colonel,  
General Staff,  
1st Canadian Division.

NB



356.

APPENDIX

46



O.C. 3<sup>rd</sup> Aust. T. Coy *Appendix 46*

It is necessary  
to consider the question  
of delaying a possible  
break through by the  
enemy by means to  
form craters in  
railways, crossroads  
& other obstacles.

Will you please give  
me your views on  
your sector.

$\frac{1}{2}$   
 $\frac{1}{8}$  H. H. Hull  
Maj. R. R.  
for C.O. 1st. First Army





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APPENDIX

72  
47

Appendix 47.

11th Div'nl. Arty.  
No.-----

H.Q., 11th DIVISION.	
No. G.N. 565	
Date 31-1-18.	

ROYAL ARTILLERY, 11TH DIVISION.	
No. Bm. 1684	
Date 31-1-18.	

11th Division.

The D.T.M.O. 11th Divisional Artillery is desirous of obtaining the assistance of a Tunnelling Company in the construction of a new Gun-pit for 6" Trench Mortar, in the Right Group Section.

Will you be good enough to inform me if this assistance may be rendered, please.

*H.P. Thomson*

31-1-18.

Lieutenant R.A.,  
a/Staff Captain, 11th Divisional Artillery.

Appendix 47

O.C. 3<sup>rd</sup> Australian Tunnelling Coy.

G.N. 565.

Will you please arrange this direct with D.T.M.O.

11<sup>th</sup> D.A.

*A. Thomson*  
Major  
R.A.  
11<sup>th</sup> Division.

1.2.18.



APPENDIX 47

928

ROYAL ARTILLERY 11th DIVISION	H.Q. 11th DIVISION
.....	.....
.....	.....

The 11th Divisional Artillery is desirous of obtaining the assistance of a travelling company in the construction of a new gun-pit for 8" French howitzers in the 11th Group battery area.

Will you be good enough to inform me if this assistance can be rendered, please.

Major-General H.A. ...  
11th Divisional Artillery

- I Corps Cyclists.....
- I Corps Schools..... 5
- I Corps Reinforcement Camp... 5

*for* *Elwyn*  
Brigadier G  
General Staff

Copies to:-  
A.D.C. to G.O.C.  
B.G.G.S.  
.....



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IN REPLY PLEASE QUOTE



Appendix 48.

TELEGRAPHIC ADDRESS:  
"ADMINAUST, LONDON."CABLE ADDRESS:  
"ADMINAUST, LONDON."TELEPHONE:  
VICTORIA 8860 (10 LINES).

## AUSTRALIAN IMPERIAL FORCE.

Administrative Headquarters, A.I.F.,

130, HORSEFERRY ROAD,

LONDON, S.W. 1.

February 2nd 1918.

R.T.O.  
Victoria.Embarkation Commandant,  
Folkestone.

The following member of the A.I.F.  
has over-stayed short leave from France:-

No. 5370 Pte. Manning O.R. 3rd Tunn.Coy. ✓

Necessary disciplinary action has  
been taken by the O.C., A.I.F. Troops in London and he  
is now reporting to you to be returned to France with  
other leave details.

Will you please arrange accordingly.

*J. W. Smith*  
for Lt.  
Staff Captain.  
for COMMANDANT.

*ms*



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## Appendix 48

4<sup>th</sup> 2. 18

On 30.1.18. I stayed at Private house. I ~~was~~ asked to be woken early as I had to catch the train for France next morning. I know I was late so they asked to see my pass. so I did so they told me I wasn't due till the 1.2.18 I stayed in till three o'clock and went to Victoria Street and had something to eat and went to pictures till half past 6. had my tea and went for a walk and at Victoria Street. Near Station. I was asked for my pass. I showed it. to the A.P. he said come with me. so I did without saying any more. ~~31.1.18~~ was taken to lock up. on 31.1.18. and searched my pay Book and all belongings were taken on 1.2.18 was taken to Horseferry Road and taken back to lock up. till 2.2.18 and put aboard the Train for France. arrived Calais 2.2.18. left Calais 3.2.18.

Sapper. W. R. Manning



c/286 E. in C.

G. H. Q. 1st Schelon

Feb. 3<sup>rd</sup> 1918

My dear Sanderson,

Will you and our brother  
Officers and No 3 Company in general  
kindly accept my sincerest  
sympathy with you all in the  
loss of our fine brave comrade  
Russell. It will be hard indeed  
to replace him. Every one speaks  
most highly of him.

I sympathise deeply with you all  
in his loss.

With many thanks for your last  
kind letter I am

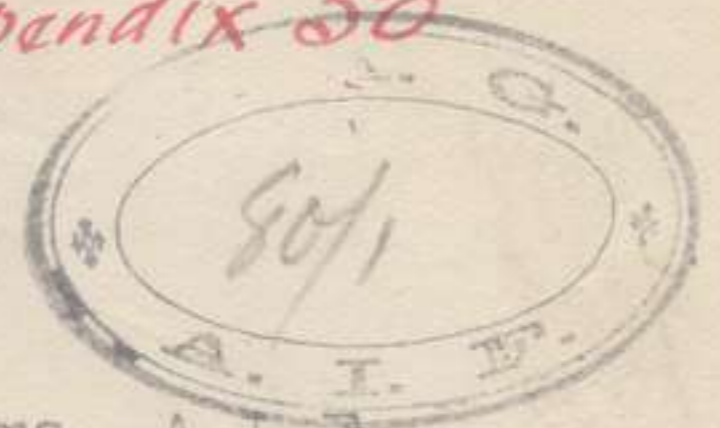
Yours very sincerely  
J. W. Edgeworth David.



256.

AUSTRALIAN IMPERIAL FORCE.

*Appendix 50*

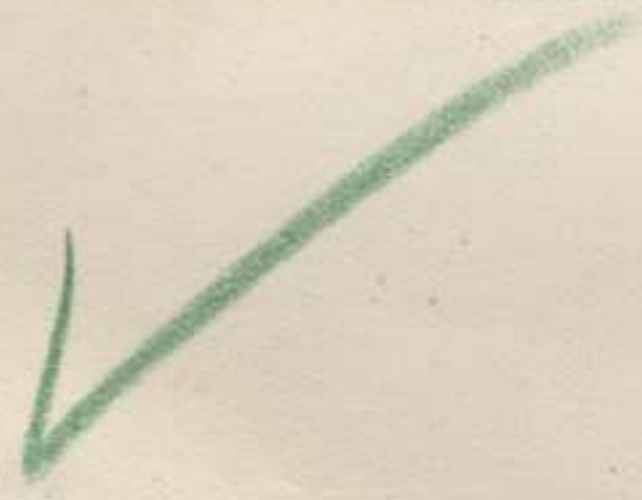


Headquarters, A. I. F.,  
att. Australian Corps,  
4th February 1918.

O. C.,  
3rd Aust. Tunn. Coy.

Will you please confirm the entry in  
your "Joined and Gone" Return dated 27.1.18, that Lieut  
H. RUSSEL, M. C., died of wounds on 22.1.18.

Australian Section, 3rd Echelon,  
have reported that he died at the 7th Casualty Clearing  
Station on 23.1.18.



*Alboman*

Colonel,

D. A. G. A. I. F.





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SECRET  
D-18

Canadian Corps.

1st Canadian Tunnelling Coy. C.E.

Herewith list of proposed Champagne Machine Gun Emplacements in order of priority to be constructed by you in First Canadian Division Area.

Please get in touch with 1st Canadian Division at once with reference to this work and make all arrangements to commence work with the personnel relieved from the work you are now on to the extent of one section.

Regarding WOODSINE N.S.c. 1.0.9.0 and PLAYERS N. S.c.0.5.8.0., these will not be commenced until details are settled with 1st Canadian Division as to exact location.

PALL HALL N. S.a.7.0.3.0. and ABDULLAH N. S.a.8.0.4.0. will be done by 3rd Australian Tunnelling Coy. in connection with the CANTEN tunnel work.

COPY To:-

- Canadian Corps "G" )
- 1st Canadian Division "G" ) For information.
- C.E. 1st Canadian Division )
- 3rd Australian Tunnelling Coy.)

*E.P. Jetherton*

captain.  
for C.E., Canadian Corps.

5/2/18  
EPP/RCR



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Op. 5178

SECRET.

Canadian Corps.

LIST OF PROPOSED MACHINE GUN EMBLACEMENTS of the  
 CHAMPAGNE TYPE in order of PRIORITY, TO BE  
 CONSTRUCTED in 1st DIVISIONAL AREA.

R.	3	PALL MALL	N.8.a.70.30.
	4.	ABDULLA	80.40.
	5.	GOLDFLAKE	80.90.
	6.	BLACK CAT	N.2.g.85.10.
	2.	WOODBINE	N.8.c.10.90.
	1.	PLAYERS	05.80.
	11.	W.D. & H.O.	N.7.d.20.60.
	13.	TURF	N.7.c.80.75.
	15.	Hedges	N.7.a.72.32.
	14.	BENSON	72.30.
	16.	BRIDGE	60.85.
	10.	HIGHBALL	N.1.b.15.00.
	9.	BOOZE	N.2.c.00.90.
	17.	DYNAMITE	N.1.c.85.65.
	18.	CORDITE	75.65.
	19.	POKER	N.1.a.15.35.



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Appendix 52

A.M.1/685.

SECRET.

Brigade Major,  
33rd Infantry Bde.  
& 34th Infantry Bde./

In regard to the action to be taken by Tunnellers and attached spoil parties in the event of an enemy attack.

It seems advisable that the greatest use should be made of the Tunnellers for defence and counter attacking underground.

I recommend that, in the event of an enemy attack the Tunnelling Officer on duty shall detail a picquet of 10 O.R's to defend each post under the Reserve line in HULLUGH, ST.ELIE St. GEORGE's and MANNING Tunnels. (A traversing loop-holed block is situated at each of the points mentioned). Also a reinforcement party of fifteen (15) O.R's should be sent to the OVAL (Intersection of HULLUGH and St.ELIE Tunnels) and a party of five (5) O.R's to the incline from O.B.9 in MANNING Tunnel. Any additional men available to be employed in defence of the Reserve line or as instructed by the nearest Battalion commander. The picquets at the points mentioned above would be available for counter attacking, if necessary, in the event of the enemy penetrating the forward parts of the tunnels.

In my opinion it is only under the gravest circumstances, e.g., if the enemy were gaining the Reserve Line, that, the demolition of the tunnel, where charged, would be justified.

6/3/18.

Major,  
O.C., 3rd Australian Tunnelling Company.

*Cap't Hillman*

*For information and return*

*6/3/18.*

*A. Major*

*O.C. 3<sup>rd</sup> Aust. Tun. Coy.*

*Noted: thank you*

*H. Hillman Capt.*



SECRET.

Brigade Major,  
33rd Infantry Brigade/

Replying your S7/118 of 4/3/18.

1. The Block should be placed in position before firing the charge and the double gas doors behind the block should be closed.
2. The exploder will be situated in the fan chamber near the oval.
3. In case of attack, the Tunnelling Officer will immediately report with a N.C.O., or send an N.C.O., to the Battalion Commander in 10th Avenue Tunnel. The N.C.O., detailed must thoroughly understand full particulars of the charges and method of ~~planting~~ firing them.

6/3/18.

Major,  
C.C., 3rd Australian Tunnelling Company.



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*Appendix 54.*  
SECRET.

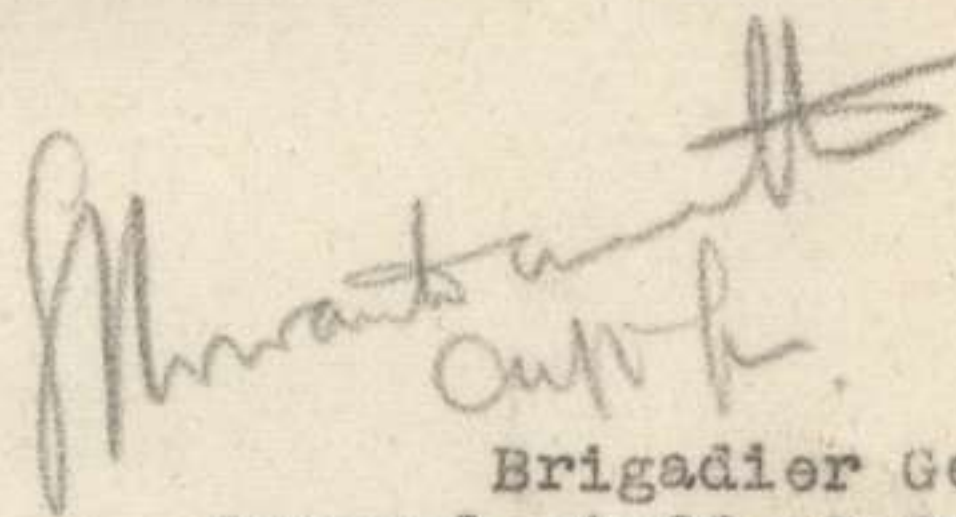
170th Tunnelling Company, R.E.  
251st Tunnelling Company, R.E.  
3rd Australian Tunn: Coy: R.E. ✓  
31st A.T. Company, R.E.  
560th (Hants) A.T. Company, R.E.

-----  
No. 450. (G.O.) 6th February, 1918.  
-----

The attached instructions "Employment of Corps Troops in the event of a serious hostile attack" issued as Appendix III of Part III, I Corps Defence Scheme, is forwarded for your information and necessary action.

The above cancels I Corps No.134 (G.O.) dated 1st November, 1917, which should be destroyed.

Please acknowledge.



Brigadier General,  
General Staff, I Corps.

Copy to:-  
C.R.E., I Corps Troops.



APPENDIX III.

Employment of Corps Troops in the event of a  
 Serious Hostile Attack.

-----

1. In the event of a serious attack the following units will be in Corps Reserve:-

1st Cyclist Battalion.  
 170th Tunnelling Company, R.E.  
 1 Section 3rd Australian Tunn: Coy: R.E. ||  
 251st Tunnelling Company, R.E.  
 31st A.T. Company, R.E.  
 560th (Hants) A.T. Company, R.E.

2. Table 'J' shows the probable destination of the above units. No move will take place without orders from Corps H.Q., but units will at once make the following arrangements:-

(a) Concentrate all available personnel.

(b) Arrange for all ranks to be equipped with 120 rounds S.A.A., rifle, steel helmet, small box respirator, iron ration, unconsumed portion of the day's ration and 1 pick or shovel (75% shovels, 25% picks).

NOTE:- 1st Cyclist Battalion will not be equipped with tools.

Units will arrange for above stores to be available for issue if required.

3. O.C., 1st Cyclist Battalion will arrange for guides for Localities and M.G. emplacements to be at Battalion H.Q. ready to move at short notice. In the event of the remainder of the Cyclist Battalion being moved the above guides will remain at the Battalion H.Q., VERQUIN.  
 The personnel employed on observation will not be withdrawn.
4. Personnel of the Tunnelling Companies actually working in the trenches and who cannot therefore be concentrated, will come under the orders of the Brigade Commander in whose Section they are working.
5. All officers and a proportion of the I.C.O's., of the above units will reconnoitre the localities laid down as their probable destination and the routes to them.
-



TABLE 'J'

Unit.	Present Location.	Probable Destination if ordered to move.	Route.	Remarks.
170th Tunnelling Company, R.E.	NOEUX-LES-MINES	NOEUX-LES-MINES Locality.	Any	
1 Section 3rd Aus: Tunn: Coy.	BRAQUEMONT	- do -	-do-	
251st Tunnelling Company, R.E.	BETHUNE	SAILLY LABOURSE Locality (F.21.d).	Main BETHUNE - BEUVRY Rd.	
31st A.T.Coy: R.E.	VERQUIN	-do- (F.27.d).	Shortest.	
560th (Hants) A.T. Company, R.E.	NOYELLES	NOYELLES Locality.		
1st Cyclist Battalion.	VERQUIN	Any Locality.		

NOTE:- The order to move will state under whose orders the above units will come on arrival in Localities.

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Op. 54 83



APPENDIX 55  
84

Appendix 55

A.M.1/717.

333  
The Controller of Mines,  
First Army/

Application is made for 14 days Leave to  
South of France for:-

- (a) A. SANDERSON.
  - (b) Major.
  - (c) O.C., 3rd Australian Tunnelling Company.
  - (d) From 16/3/18 to 24/10/18.
  - (e) In lieu of ordinary leave to United Kingdom.
  - (f) Monte Carlo - Hotel Windsor.
  - (g) Date of Last Leave 3/10/17.
- Submitted for approval, please.

Major,

1/18.

O.C., 3rd Australian Tunnelling Company.



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T

356.

Appendix 56

SECRETC.E., I Corps No. 2881AI Corps.  
-----

Reference your 873 (G.b.) 28th January, 1918.

A suitable place for a second exit from DEVON TUNNEL would be G.12.d.06.55., about 25 yards S.W. of the present exit.

(sgd) A.G. BOWIE,  
Major, G.S.  
for Major General,  
Commanding 11th Division.

8.2.18.

- 2 -

C.E.  
-----

This seems all right. If you approve will you put it down on programme of work.

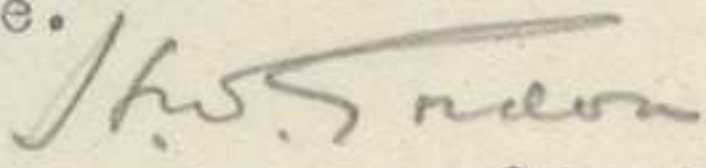
Int/ G.V.H.

9.2.18.

- 3 -

O.C., 3rd Australian Tunn. Coy.  
-----

This can be added to work which is to be put in hand as soon as labour is available.

  
Brigadier General,  
Chief Engineer, I Corps.

10.2.18.

M



SECRET.

11th Division No. 95/Q/12.  
I Corps No. Q.O.1395.

86

*Appendix 57.*

Headquarters,  
I Corps "Q".

May authority be given for the issue of 198 Hurricane Lamps for use in tunnels in the Divisional Sector in case of a break-down of the electric light?

They would be in charge of the Tunnelling Coy. and would only be used in case of a breakdown of the electric light.

The Tunnelling Coy. are already in possession of a certain number of oil lamps but the number is insufficient. The proposed additional oil lamps would bring up the total of available oil lamps to the same as the electric bulbs.

Sd. W.F.GORDON. Lt.Col.,  
for Major General,  
Commanding 11th Division.

8/2/18.

2.

Headquarters,  
11th Division.

Reference your Secret Memo. 95/Q/12 dated 8-2-18; the Tunnelling Company concerned should be instructed to communicate direct with Controller of Mines, First Army on this subject.

H.Q. I Corps.  
9th February. 1918.

Sd. H. MALET. Lieut.Colonel.  
A.Q.M.G. I Corps.

3.

170th Tunnelling Coy. 32nd Bde.  
3rd Australian Tunnelling Coy. 33rd Bde.  
"G" (for information). 34th Bde.

*for information*

Reference <sup>above</sup> ~~attached~~ correspondence, please arrange to keep sufficient Hurricane Lamps in store to replace electric globes, light for light, in case of breakdown of the Electric Supply.

HEADQUARTERS  
11TH DIVISION  
"A & Q"  
10 FEB. 1918  
No.

10/2/18.

*W. Bray*  
Major.  
D.A.Q.M.G., 11th. Division.

CONTROLLER OF MINES  
No. 5371  
Date  
1st ARMY

*Controller of Mines,  
1st Army.*

*Ref. above, please.*

*In order to have sufficient kerosene lamps in store to replace electric lights, light for light, and additional 120 lamps will be required.*

*As we have a standby generator it is unlikely that a breakdown of the electric supply would occur except perhaps for a couple of hours in a small section of the tunnels. At the same time, a gas attack would force us to stop the generators. May authority be granted for the issue of the lamps, please.*  
*Alexander*  
*11/2/18.*



Appendix 58.

HEADQUARTERS,
33rd INFANTRY BDE.
No. <u>S7/40</u>
DATE.....
BY.....

S.7/40.

356  
3rd Australian Tunnelling Coy,

Herewith copy of a letter written to  
11th Division.

Item 3 was not mentioned to you when you saw General Spring the other day, but it is presumed that you have no objection to undertaking the work when you have finished the new Battalion H.Q. for the Right Battalion.

The above Co.H.Q. is for one of the Companies in the same Battalion. *Subsections.*

*S. J. Howes*  
Major.  
Brigade Major.  
33rd Infantry Brigade.

12th February 1918.



356.

## Appendix 59.

11th Division.

SECRET.

33rd Inf. Bde No. S. 7/39.

May the 3rd Australian Tunnelling Co  
be asked to undertake the following work:-

1. There is a disused mine rescue Station  
near the water tanks in the Hulluch Tunnel <sup>can this be</sup> converted  
into a kitchen to cook for 250 men.

We should like places for boiling  
8 degchies at a time, one oven and room for two Soyers  
Stoves.

2. A bath-room near the Power House in  
St. Georges Tunnel.

3. The making of a Company H.Q. where  
the Reserve Line joins POSEN ALLEY at G. 30. b. 35/95.  
At present there are just two shafts leading down.  
They require to be made deeper and chambers made at the  
bottom of them. This particular site for a Coy. H.Q.  
is rendered necessary by the new distribution.

(Sa) W. B. Thornton

Lt. Colonel.  
Comdg 33rd Inf. Brigade.

12th Feby. 1918.





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S E C R E T

C.E., I Corps No.2098

11th Division  
42nd Division  
55th Division

-----  
No. 490 (G.O.) 12th February, 1918  
-----

Owing to the urgency of the work in and in rear of the VILLAGE LINE, no new work will be undertaken by Tunnelers forward of the VILLAGE LINE.

(sgd )G.ROWAN HAMILTON,  
Capt., for  
Brigadier General,  
General Staff, I Corps.

Copy to:-  
C.E.

- 2 -

O.C., 170th Tunnelling Coy.  
O.C., 3rd Australian Tunnelling Coy. ✓  
-----

For information.

Brigadier General,  
Chief Engineer, I Corps.

13. 2.18.



356.

Appendix 61.

O.C., 3rd Aust. Tun. Coy.  
-----

C.M. 625  
First Army.

Reference your estimate of Appendix "B" Stores,  
herewith authority to draw 6 Geophones (Sets) from  
First Army Mine School.

First Army, H.Q.,  
14th Feb., 1918.

*W.H. Gill*  
Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

Copy to :- O.C. Mine School.  
For information.





356.

Appendix 62

~~356~~ SecretC.M. 631  
First Army.O.C., 3rd Aust. Tun. Coy.

Further to my wire C.M.57 of to-day, authorising you to draw 90 Subway Lanterns for this service, the balance will be obtained for you as soon as possible.

The supply is limited and close control of these Lanterns is therefore essential.

*R. E. ...*

First Army, H.Q.,  
15th Feb., 1918.

Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.





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## Appendix 63

O.C., 170th Coy., R.E.  
 O.C., 176th Coy., R.E.  
 O.C., 185th Coy., R.E.  
 O.C., 251st Coy., R.E.  
 O.C., 3rd Aust. Tun. Coy. ✓  
 O.C., 1st Cdn. Tun. Coy.  
 O.i/c. Mine School.

-----

C.M. 629  
 First Army.

A lecture on "Camouflage" will be delivered by Major T. RHODES, D.S.O., O.C. Northern Special Works Sub Park, at LE BRA SAT Theatre, Army Headquarters, to-morrow 16/2/18, at 3 p.m.

There will be accomodation for three officers from your unit, if any are able to attend.

First Army, H.Q.,  
 15th Feb., 1918.

*R. Rhodes*  
 Lieut.-Colonel, R.E.,  
 Controller of Mines,  
 First Army.



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Headquarters,  
3rd Canadian Infantry Brigade,  
16th February, 1918.

3rd Australian Tunnelling Coy.  
O.C.Reinforcements, (1st Cdn.Div.Wing.  
C.C.R.C.)  
107th Canadian Battalion (Pioneers).  
-----

The following extracts from 3rd Canadian Infantry  
Brigade Defence Scheme dated February 15th, 1918, for the  
HILL 70 section, are forwarded for your information:-

- Right Front Line Battalion H.Qrs.....H.31.d.13.
- Left Front Line Battalion H.Qrs.....H.30.d.7.2. (LOOS Trench)
- Support Battalion H.Qrs.....G.36.a.8.9. (TOSH ALLEY)
- Reserve Battalion H.Qrs.....G.29.a.2.7. (VILLAGE LINE).

ACTION IN CASE OF ATTACK.

9. Movement of troops in case of attack.

(c) The following parties working in the area will come  
under the Brigade:-

- 1st Div'l. Wing,.....25 men in MAZINGARBE.
- 3rd Div'l. Wing.....250 men in MAROC.
- 3rd Field Company (less )
- 1 section).....120)
- and 1st Div'l. Wing ) MAROC.
- attached..... 60)
- 3rd Australian Tunnelling
- Company.....110 LOOS.

Major,  
Brigade Major,  
3rd Canadian Infantry Brigade.



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First Army No. 1573/(G.).

3/

Confidential *Appendix 65.*  
C.E. I Corps No. 1374/113. *94*

I Corps.  
-----

Reference First Army Bo. C.E. 1786/135 of 28.1.18.

Will you please forward your views as to whether it is considered that machine guns could be brought up from the Champagne type of Machine Gun Dug-outs in time, and whether the splinter proof chamber near the dug-out is not necessary so that teams could stay in close proximity to the firing point during the shrapnel barrage.

SD/ H.M.McNachten, Lt.Col. G.S.  
for Major General,  
General Staff, First Army.

4.2.18.

First Army.

4/

-----  
No. 519 (G.O.) 16th February, 1918.  
-----

Reference First Army No. 1573 (G.) dated 4.2.18.

1. The type of Champagne emplacement constructed in this Corps has a combined incline and vertical shaft, the vertical shaft being about 7 ft.
2. A test was carried out to get a gun into action from one of these dug-outs 25 ft. in depth, the time taken was 1 minute, 30 seconds.
3. In view of the speed with which the gun was mounted it should be sufficient to provide the sentry at the top of the shaft with splinter proof shelter. I think that shelter is essential. It is expecting too much of ordinary human nature to expect men to keep a vigilant outlook during heavy shelling without some moral support.

SD/ A.Holland, Lt.General,  
Commanding I Corps.

- O.C. 170th Tunnelling Coy., R.E.
  - O.C. 3rd Australian Tunnelling Coy., A.E.
  - O.C. 31st (A.T.) Coy., R.E.
  - O.C. 560th (Hants) A.T. Coy., R.E.
- 

For information, especially with  
reference to memo & para 3.

*Stirling*  
Captain, R.E.  
for C.E. I Corps.

17.2.18.



C.E. First Army No.1786/135.

C.E. I Corps. No.1374/113.

R.E. F.F./118.

356

C.E. First Army.  
-----

The " Champagne" Type of Machine Gun Dug-out as usually constructed consists of a small living chamber with 20 - 30 ft. of cover, and a gallery terminating in a vertical or combined incline and verticle shaft to the Machine Gun position on the surface.

It is considered that the gun crew, if sheltering in the dug-out, might not be able to get the gun in ~~pa~~action sufficiently rapidly. It is therefore necessary to provide a small splinter-proof chamber, just sufficiently large to shelter the crew, as close as possible to the gun position. This is especially necessary in the case of vertical shafts.

In exposed sites the chamber could probably be most simply made by driving a short length of 5' x 4' gallery off the shaft, with about 3' of head cover only. Additional protection could be given later if circumstances permitted.

G.H.Q.,  
26.1.18.

SD/ D.S.MacInnes, Brig.General,  
for Engineer-in-Chief.

2.

C.E. I Corps.  
-----

For information.

28.1.18.

SD/ H.H.Wheatley,  
Captain, R.E.  
S.O.R.E.



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No 4 Section

Appendix 67.

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Utilisation in case of attack.

Hulluck SideNormal  
Distribution

Approx 16 Sappers and 8 attached  
resting in Dump Tunnel and about 6  
Sappers & 6 attached at work in tunnels.

Say 36 to 40 in all.

Use in Defence.  
1<sup>st</sup> Stage.

It is recommended that these be  
divided into 4 parties of about 9 each,  
one party to each tunnel system i.e.:-

No 1 Party. Hulluck tunnel

No 2 " Dudley including Store & K.

No 3 " St Elie - Devon

No 4 " St Georges.

These parties should be employed in assisting  
in the defence of those tunnel exits  
in front of the Reserve line which  
are not held strongly by the Infantry.  
Such exits are notably those used by the  
Trench Mortars. Should the hostile  
attack make good to the extent that the  
T.M.'s were no longer able to work their guns  
their tendency would be to withdraw  
& find emplacements in Reserve line.  
In which case the tunnelling

Personnel would immediately  
proceed to block or demolish the  
exit, so as to deny access to the enemy.

It is recommended that all tunnel exits  
in front of Reserve line be wired to the  
same extent as are the infantry posts.

It is recommended therefore that our Stand To  
positions be 4 in number on the Hulluck  
side, one in each tunnel system to be  
selected.

S. J. Hillman. Capt.  
18-2-18



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APPENDIX

97.  
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*Appendix 68.*

S E C R E T.

✓ O.C., 170th Tunnelling Coy: R.E.  
O.C., 3rd Australian Tunnelling Coy.

-----  
No. 53/. (G.O.) 18th February, 1918.  
-----

The attached copy of Part IV, I Corps Defence Scheme, is forwarded for your information and necessary action.

Please acknowledge.

*J. Mansfield  
Cath*

Brigadier General,  
General Staff, I Corps.



Ap. 68

S E C R E T.

11th Division.	(Copy No.1 & 2.)
42nd Division.	( : : 3 & 4.)
46th Division.	( : : 5 & 6.)
55th Division.	( : : 7 & 8.)
H.A., I Corps.	( : : 9.)
1st Cyclist Battalion.	( : : 10.)

-----  
 No. 525 (G.O.) 17th February, 1918.  
 -----

1. Herewith I Corps Defence Scheme, Part IV, cancelling I Corps No.189 (G.O.) dated 22nd November, 1917, which together with maps issued therewith should be destroyed.
2. New Maps A & B are issued herewith.
3. Please acknowledge.

*Howan to am the  
Capt. Gen.*  
 Brigadier General,  
 General Staff, I Corps.

Copy No.11	First Army.
: : 12	Canadian Corps.
: : 13	Portuguese Corps.
: : 14	D.A. & Q.M.G.
: : 15	G.O.C., R.A.
: : 16	C.E.
: : 17	No.2 Squadron, R.F.C.
: : 18	A.D. Signals.
: : 19	B.G.G.S.
: : 20	Office.



Op. 68. 99.

Copy No. 23

356

S E C R E T.

I CORPS DEFENCE SCHEME.

P A R T IV.

INSTRUCTIONS IN THE EVENT OF AN ENEMY RETIREMENT

OPPOSITE I CORPS FRONT.

1. POSITION TO WHICH ENEMY MAY RETIRE.

(a) The enemy may be forced to withdraw from his present position by offensive action in the neighbourhood of LENS or elsewhere, or he may withdraw voluntarily.

In either case the line to which he would probably withdraw in the first place may be taken as:-

VITRY-EN-ARTOIS - IZEL-LES-EQUERCHIN - DROCOURT - MONTIGNY - HARNES - ANNAY - VENDIN-LE-VIEIL - HAINES - AUCHY or HAINES-LA BASSEE.

(b) Should the enemy decide to make a further withdrawal the case of his pivoting on LILLE and holding the general line of the high ground East of the LILLE - SECLIN - PHALEMPIN - DOUAI railway has to be considered.

Such a withdrawal might be carried out by moving back firstly, on the South to the line VITRY-EN-ARTOIS - IZEL-LES-EQUERCHIN - HARNES - ANNAY. Then a withdrawal North of ANNAY to the line via PONT A VENDIN - HAUTE DEULE Canal to DON - HAUBORDIN - LILLE, behind which we already know he has concrete emplacements: subsequent movements being to the continuation of the HAUTE DEULE Canal between PONT A VENDIN and DOUAI, and finally to the high ground East of LILLE - SECLIN - PHALEMPIN - DOUAI railway.

2. PREPARATION OF PLANS FOR FOLLOWING UP THE ENEMY.

Plans must be prepared and orders issued for following up the enemy vigorously should he show signs of withdrawing.

Those plans and orders must be known to all Battalion and Company Commanders in the line so that there may be no delay when the moment arrives.

The rapidity and success of the advance will depend on a good system of patrolling, observation and intercommunication and on the care with which the plans have been drawn up and made known to all concerned.

3. PRINCIPLES ON WHICH AN ADVANCE WILL BE CARRIED OUT.

The advance will be by bounds.

Each successive objective will be secured by consolidating tactical points while strong patrols are pushed forward to the next objective and Artillery is brought up if necessary to cover the further advance.

Patrols so pushed forward must be fighting patrols not less than a platoon strong with Lewis gun. The fact that fire is opened on the patrol does not necessarily imply that the position is strongly held. The strength of all such positions must be tested immediately and encircling tactics developed against them.

Stokes mortars, with not less than 30 rounds a gun, must be got forward at once. These weapons have been found invaluable during semi-open warfare against hostile strong points, machine gun emplacements, &c. Arrangements must, therefore, be thought out before the advance takes place for pushing forward these guns at all costs.

Lateral communication between patrols and between supporting units is all important and touch must be established before proceeding to the next bound.

Similarly Headquarters of Battalions and Brigades must keep in close touch with those on their right and left, and all units

must.....



must be prepared to form a defensive flank should their neighbouring units be held up and unable to advance abreast of them.

The next positions to which Battalion and Brigade Headquarters will move should be decided approximately so that communications may be established as quickly as possible.

It should also be possible to determine approximately suitable positions for observation posts.

4. BOUNDS - Approximately as follows:-

First Bound - Enemy's front line system.

Second Bound - N.27.a.5.0 - HULLUCH - CITE ST. ELIE - FOSSE 8 - AUCHY - CANTELEUX - S.29.a. central (all inclusive).

5. BOUNDARIES BETWEEN DIVISIONS AND THE N. & S. CORPS BOUNDARY.

Boundaries are shown on map B.

6. ARTILLERY.

The Artillery will cover the advance of the Infantry by pushing forward in successive bounds to positions from which counter-attacks can be dealt with, the enemy's lines of retreat engaged, and counter-battery work carried on.

Forward positions should be reconnoitred and the approaches thereto thoroughly known to all Officers and Nos.1. Means of communication must be thought out and positions for likely O.P's. considered. Further, Maps must be carefully studied and Battery positions behind the enemy lines decided upon.

The object to be attained is that there should always be an organised line of Artillery and Infantry defence during each successive advance.

7. SIGNAL COMMUNICATIONS.

(a) Buried Cable -

Cable Heads on Corps Buried System are established as follows:-

H.25.c.55.90 ..... 3 pairs.  
H.25.a.48.75 ..... 1 pair.

Connected to point G.30.b.34.73 - 9 pairs. Direct lines from these can be provided to PREVITE CASTLE (G.28.b.3.5), GERRARD Exchange (G.27.a.5.0) and MAZINGARBE as required.

G.24.b.15.15 ..... 40 pairs.  
G.25.b.4.5 ..... 4 pairs.  
G.18.c.83.85 ..... 6 pairs.

Direct lines from these to Battalion H.Q. at BOIS CARRE, RUTOIRE and PHILOSOPHE.

The following Cable Heads are in tunnels:-

G.18.d.83.97 ..... 10 pairs.  
G.12.f.40.24 ..... 10 pairs.  
G.12.d.05.65 ..... 10 pairs.  
G.12.c.43.54 ..... 5 pairs.  
G.11.b.63.43 ..... 6 pairs.  
G.11.b.30.92 ..... 6 pairs.  
G.10.b.91.42 ..... 5 pairs.

These connect to PHILOSOPHE and VERLELLES.

G.4.a.32.34 ....



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G.4.a.32.34 ..... 8 pairs.  
A.28.c.25.00 ..... 8 pairs.  
These connect to Battalion H.Q. at G.3.b.30.05 & G.3.a.75.34.

A.27.b.10.00 ..... 8 pairs.  
A.27.a.34.20 ..... 8 pairs.  
A.21.c.05.75 ..... 38 pairs.  
These connect to CAMBRIN and ANNEQUIN.

A.15.c.5.1 ..... 38 pairs.  
This connects to CAMBRIN, ANNEQUIN, and CANAL HOUSE.

A.9.c.7.2 ..... 21 pairs.  
A.9.c.4.7 ..... 21 pairs.  
These connect to FANSHAWE CASTLE (A.14.a.5.5) and CANAL HOUSE.

S.25.d.55.15 ..... 30 pairs.  
This connects to TUNING FORK and LOISNE.

(b) Wireless -  
In addition, Trench Wireless Sets are established at:-

- |               |               |
|---------------|---------------|
| L.23.c.76.05. | F.29.a.82.82. |
| X.28.a.7.8.   | F.11.a.1.1.   |

These Sets will accept messages, which must be either in Cipher or Code (vide I Corps Instructions No.5) for transmission to Corps Directing Station at SAILLY LABOURSE (F.27.d.50.25) and thence to Divisional H.Q.

(c) Pigeons -  
Carrier Pigeons will be issued as required. Application should be made through O.C., Division Signals to O.C., Pigeons, I Corps.  
Birds can be supplied for Corps Observers and F.O.O's.

(d) Visual -  
Divisions are responsible for their own Visual communication. Schemes should be prepared in advance and as far as possible suitable Signal Stations in the enemy lines decided upon. The new Stations should be permanently manned until telephonic communication is established.

8. CONTACT AEROPLANE PATROLS.  
No.2 Squadron, R.F.C. will be prepared to send out Contact Patrols at short notice. These patrols will call for flares to be lit by sounding Klaxon Horns and firing White VERY Lights.  
The leading Infantry units must be supplied with flares and be ready to respond to the aeroplane calls.

9. ENEMY TRAPS AND RUSES - INVESTIGATION PARTIES.  
(a) There will be 5 investigating parties - A, B, C, D, & E.  
Generally each party will consist of 1 Officer and 12 Tunnellers with 1 Officer and 12 Tunnellers in reserve, but these may be altered at the discretion of Os.C., Tunnelling Companies.  
The Divisions or Brigades to which they are attached will detail 40 Infantry to each party.

Party A - working with Right Bde., Right Division.	}	3rd Aus: Tunnelling Company.
: B - : : Centre : : :		
: C - : : Left : : :		
: D - : : Right : Left : :	}	170th Tunn: Coy.
: E - : : Left : : :		

(b).....



(b) Preliminary.

Os.C. parties will get into touch with the Infantry Commanders they are to work with, discuss all details, and fix assembly posts for their parties and attached infantry. They will not move up to assembly posts until ordered to, but will make depots of all stores and rations required.

Parties will only move forward for investigation on the order of the Brigadier, who will give that order when he is satisfied that the line ahead is held by posts and protected.

Investigation will be first made of main roads, road junctions, railway embankments, bridges, tunnels and Squares, and afterwards in detail of cellars and dug-outs.


(c) Marking of Traps &c.

The following measures will be adopted by the investigation parties from Tunnelling Coys: when searching captured enemy territory for mines and traps.

Each member of the party will wear a distinguishing badge, (consisting of a red strip of cloth one inch wide extending from the point of the shoulder to the cuff), on both sleeves.

Dug-outs which have been passed at the first examination will be marked at the entrance with green chalk the word "examined" and the date and signature of the Tunnelling Coy: concerned.

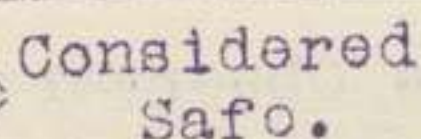
e.g.



Examined  
(date)  
Blank Company R.E.

(Green).

After the final examination for delayed action mines has been completed, a white tin sign will be nailed up, lettered in black as follows:-



Considered  
Safe.

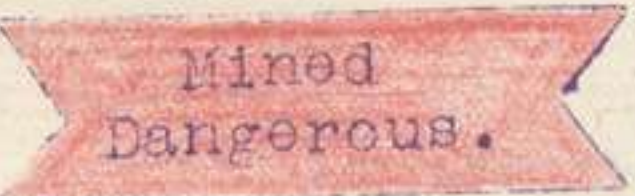
Dug-outs in which booby traps are found, or which are considered dangerous, will be marked either in red chalk as follows:-



Mined-Dangerous  
(date)  
Blank Company, R.E.

(Red).

or will have a red tin sign nailed up, lettered in black as follows:-

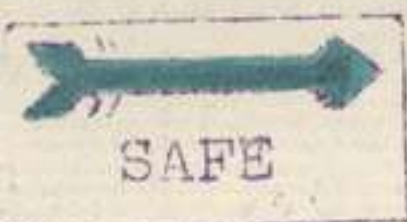


Mined  
Dangerous.

Roads will be marked as follows:-



DANGER.



SAFE

Moveable  
arrow.

White letters on red board. This board to be erected if road has not been inspected or has been found mined.

This board will be erected when road has been inspected and found safe for traffic.

The procedure and signs mentioned above are the same as those in force in the Canadian Corps.

The necessary sign boards will be obtained from Corps R.E. Yard, MINX.



10. <sup>356</sup> ROADS.

(a) Map 'A' shows -

Roads suitable for all traffic in ..... BROWN.  
 Roads suitable for horse traffic  
 and easily repairable ..... YELLOW.  
 Roads which require remaking ..... BLUE.  
 Roads used by enemy and presumably  
 easily repairable to take all traffic ..... RED.

(b) The roads shown are those selected by the Corps as the main roads to be made good in the event of an advance.  
 Special attention is drawn to the last para: of Corps Routine Order No. 1646 which states that "During an advance Divisions will be responsible for making the selected roads passable for horse transport, when the Chief Engineer and afterwards the Corps Roads Officer will follow up and make them fit for lorry traffic."

(c) Divisions will detail R.E. Officers to make reconnaissances of the BLUE roads immediately after the advance. These Officers will report whether the selected BLUE roads are the best possible or whether neighbouring roads are more suitable, taking into consideration the state and foundation of the road and the material available on the spot for repair.

Copies of reports of all reconnaissances will be forwarded to Corps Headquarters without delay.

11. LIGHT RAILWAYS.

One main Light Railway will be pushed forward on each Divisional Front.

In order that this may be done quickly it is proposed to connect two British Light Railways with two German Light Railways as shown on Map 'B'.

12. WATER SUPPLY.

(a) Map 'B' shows existing Water Supply mains.

The LE RUTOIRE Plain main is suitably placed for forward extension when required.

(b) The LE RUTOIRE Plain scheme includes storage tanks for 36,000 gallons near the LENS - BETHUNE Road in G.34.a., thence a 4" main to G.17.d. This main will be extended to the HULLUCH district when required.

(c) During an advance Divisions should report to Corps H.Q. the location of all Wells or other sources of supply which may be discovered.

17<sup>th</sup> February, 1918.

*John W. Smith*  
 Brigadier General,  
 General Staff, I Corps.



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O.S. 8/192/3 18th Feb. 1918.

Canadian Corps

With reference to your A.D.O.S. 27/7 dated 17-2-18 and in continuation of O.S. 8/192/3 of 17th inst. Lewis Guns complete with magazines, carriers, etc. for the following Units are available and will be issued from Ordnance Gun Park No. 1.

1st Cdn. Division.  
3rd Australian Tunnelling Co. 1

Sgd. C. Routh Jones Lt Col. for  
Colonel D.D.O.S., First Army

Hqrs. First Army.

-2-

Q/10/132



D.A.D.O.S. 1st Cdn. Div.  
3rd Aus. Tunnelling Co. (for information) ✓

Please draw from Gun Park and issue to Unit as above.

*Heenan*

Captain, D.A.Q.M.G.  
1st Canadian Division.

Feb. 21, 1918.



\*\*\*\*\*  
S E C R E T .  
\*\*\*\*\*

Appendix 70

34th Brigade No. II, 143.

To :-

3<sup>rd</sup> Australian Signalling Co.Reference Centre Brigade Defence Scheme, Part III (e)

"ACTION IN CASE OF ATTACK", para: B. (3) :-

Delete "dug-outs at the junction of CROSSWAY and  
CHAPEL ALLEY, G.10.c.3.4."

and road -

"dug-out at G.10.c.05.70. in CROSSWAY (V.36 old M.G.  
dug-out). Brigade Signalling Officer will lay  
cables to this dug-out."

ACKNOWLEDGE. ✓

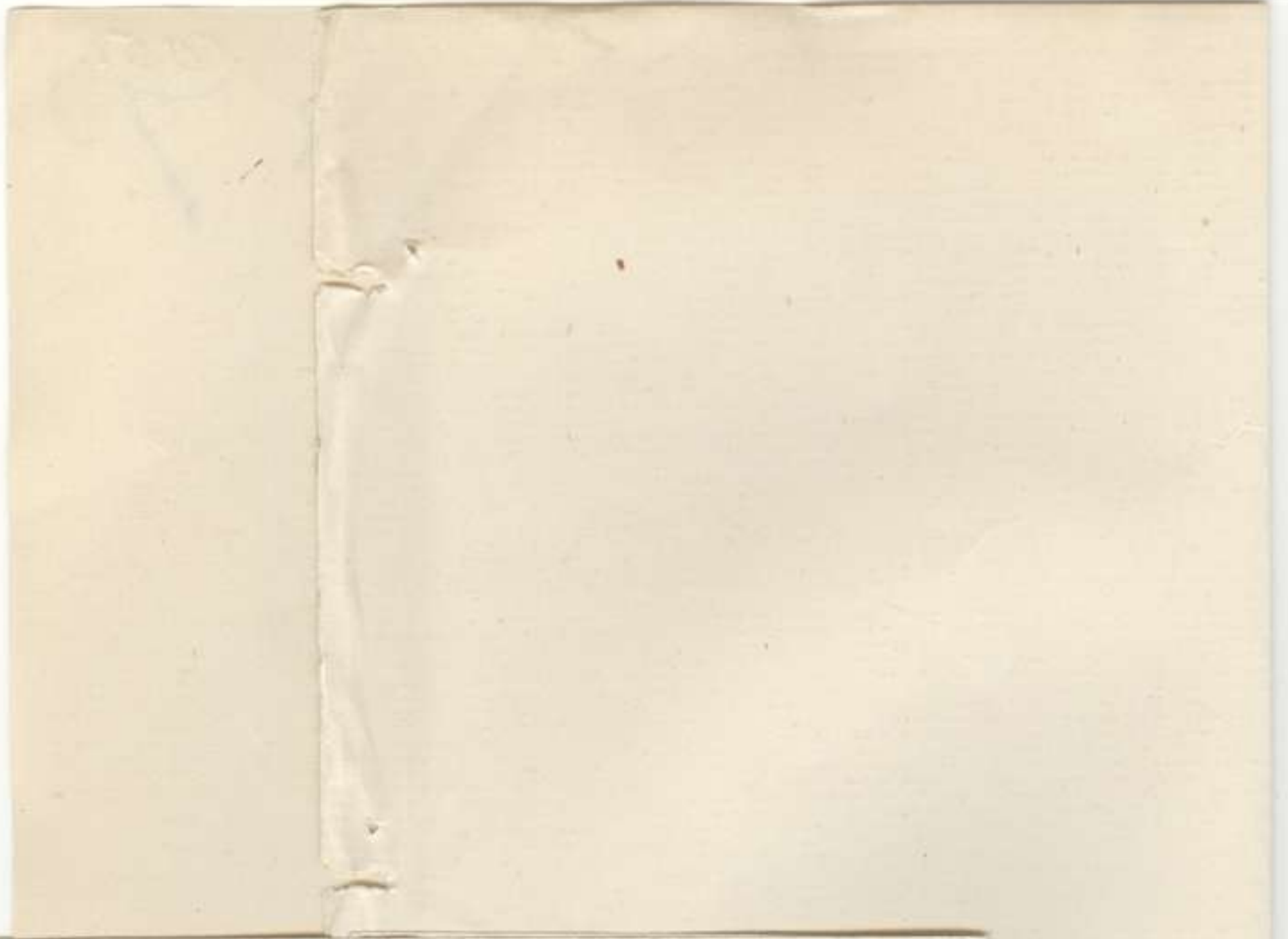
F. G. Turner, Captain,

28th. February, 1918.

Brigade Major, 34th Infantry Brigade.








Appendix 7

THE PROPOSED JUNCTION OF THE RAILWAY AND  
 THE RIVER AT BIRKENHEAD, PART II. (S)



THE PROPOSED JUNCTION OF THE RAILWAY AND  
 THE RIVER AT BIRKENHEAD, PART II. (S)

THE PROPOSED JUNCTION OF THE RAILWAY AND  
 THE RIVER AT BIRKENHEAD, PART II. (S)





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106.

APPENDIX 71

Appendix 71.

AUSTRALIAN IMPERIAL FORCE.



Headquarters, A.I.F., I. I.  
Attached Australian Corps,  
28th February, 1918.

O.C.,  
3rd Aust. Tunnelling Coy.

In order to afford officers and N.C.Os of your Company an opportunity of undergoing a course of military training vacancies have been allotted at the Australian Corps School for 1 officer 2 Sergts (or W. or N.C.Os of higher rank) and 2 Corporals at the course commencing on 6th April, 1918.

Further instructions on this matter will be issued later.

Lt Wentworth

W.O. Rogers  
Supt. McKay  
Corpl Butcher  
Corpl J. Taylor

D.H. Woods Colonel.  
D.A.G., A.I.F.



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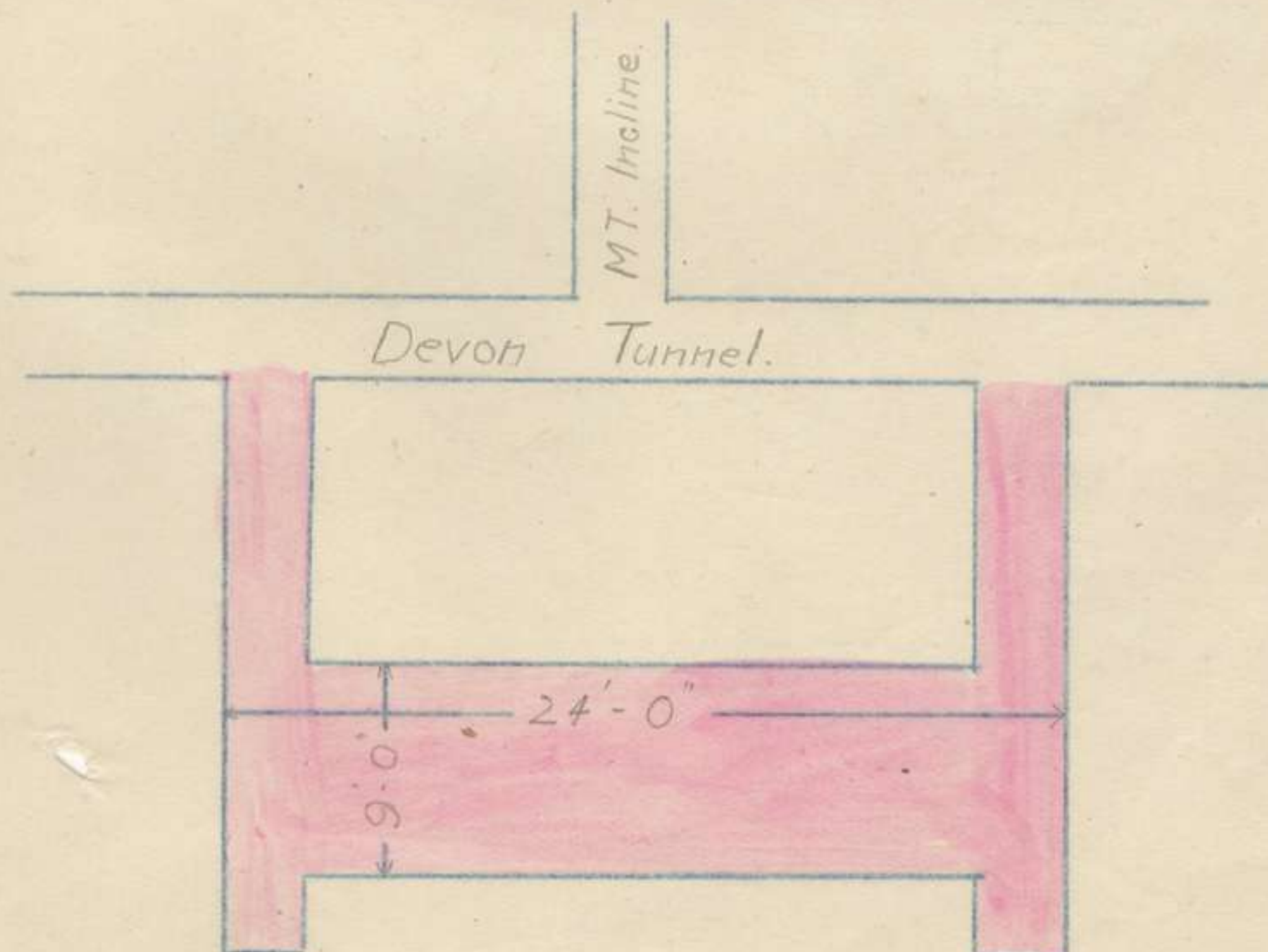
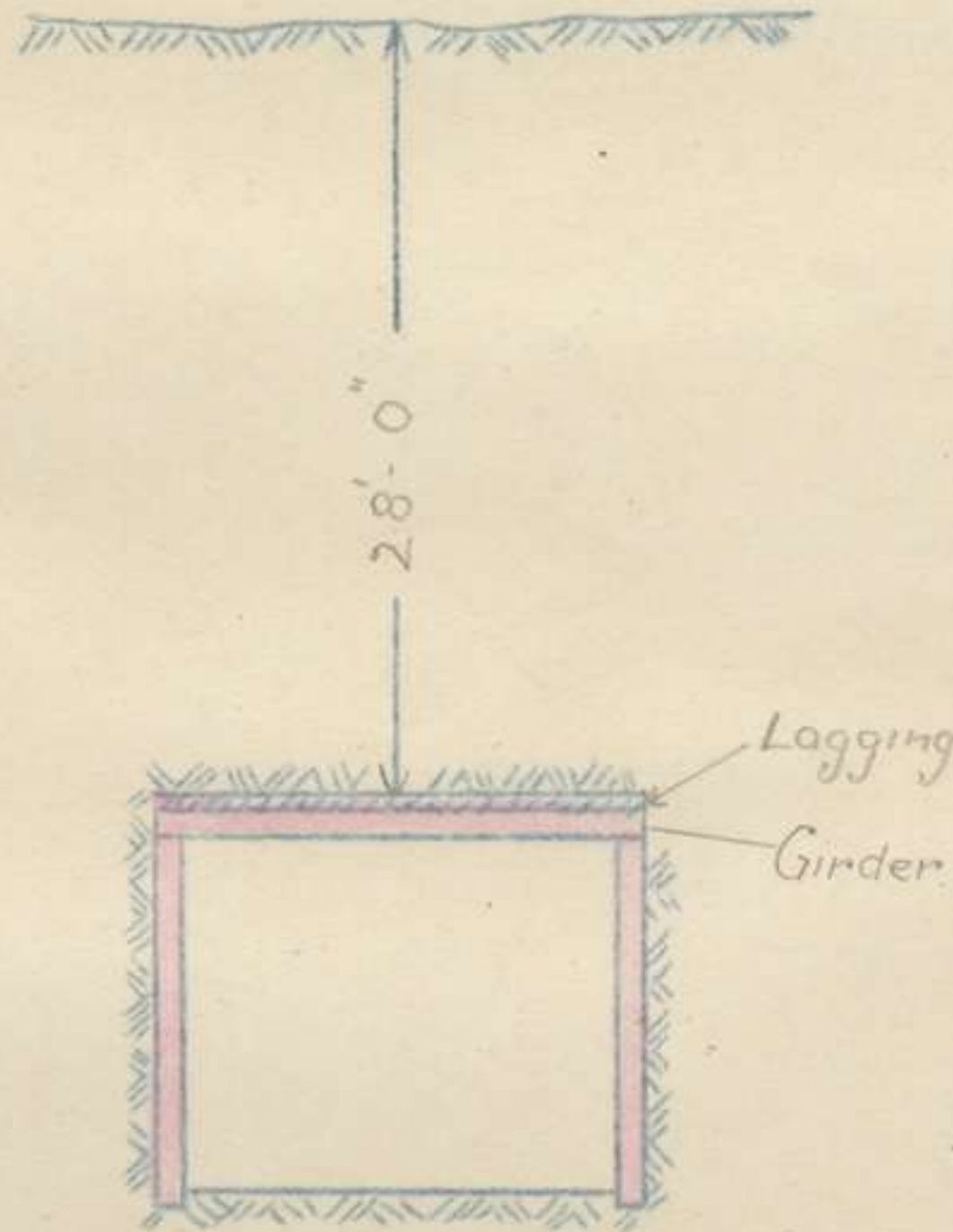
107.  
APPENDIX

3<sup>rd</sup> Australian Tunnelling Coy.

Devon Tunnel Dug-out. Sheet. 44<sup>A</sup> Ref: G12d. 03.17

Cover 28'-0"

Sketch A





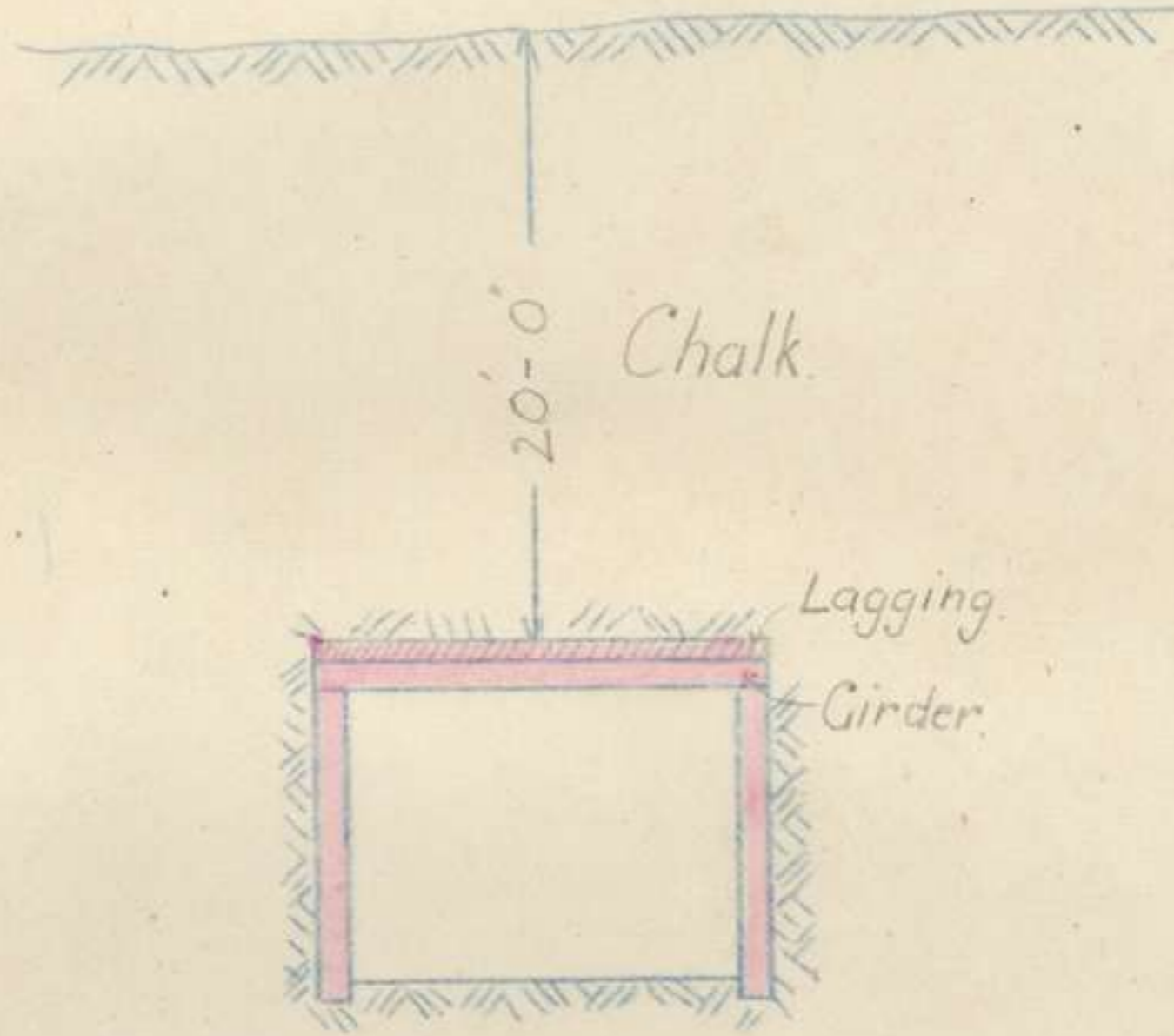
356

108.

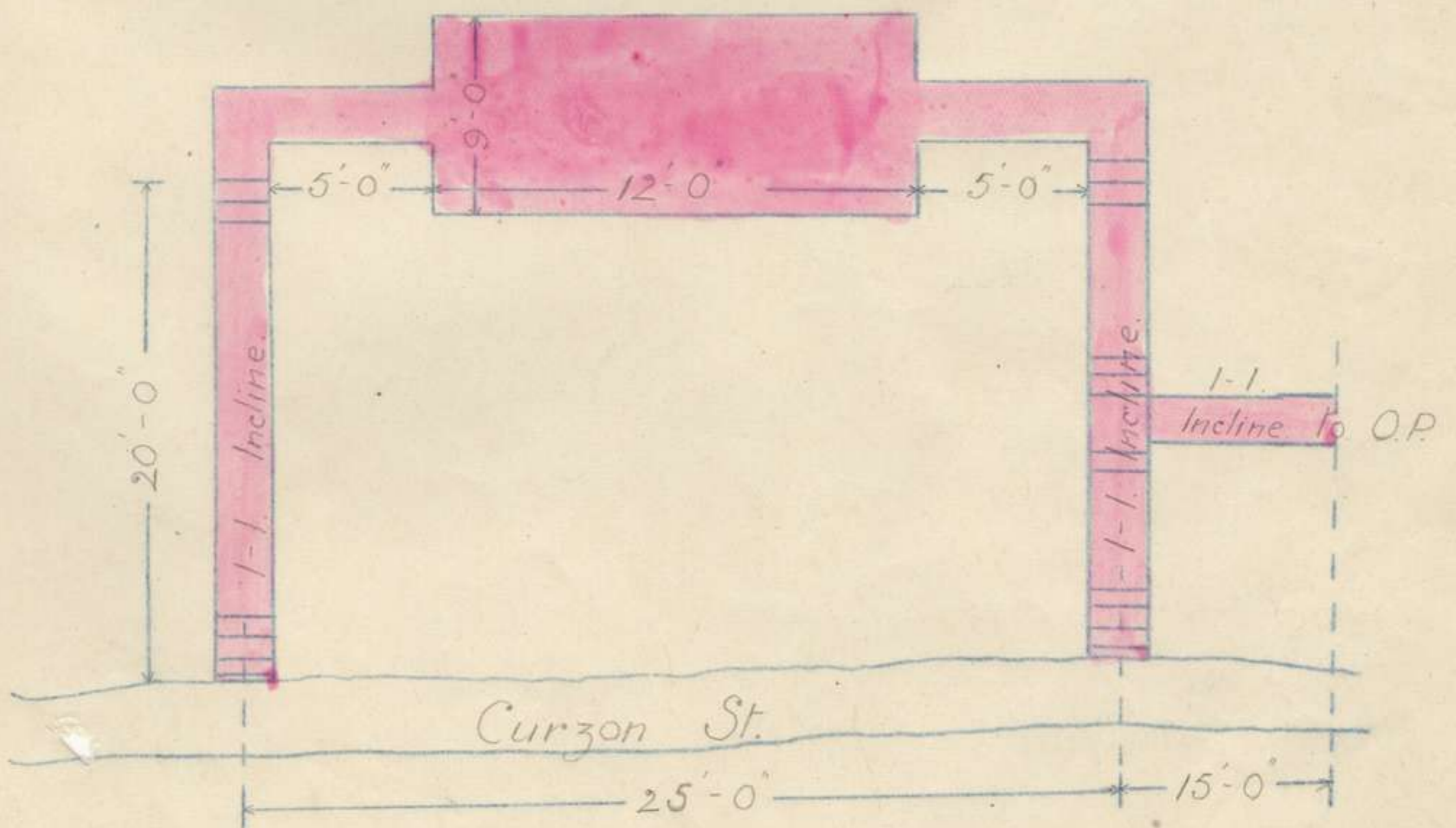
# APPENDIX

## 3<sup>rd</sup> Australian Tunnelling Coy.

Curzon St. Dugout. Magpie O.P. Sheet. 44<sup>A</sup> Ref: G24c. 05.90.  
Cover 20'-0"



Sketch "B"

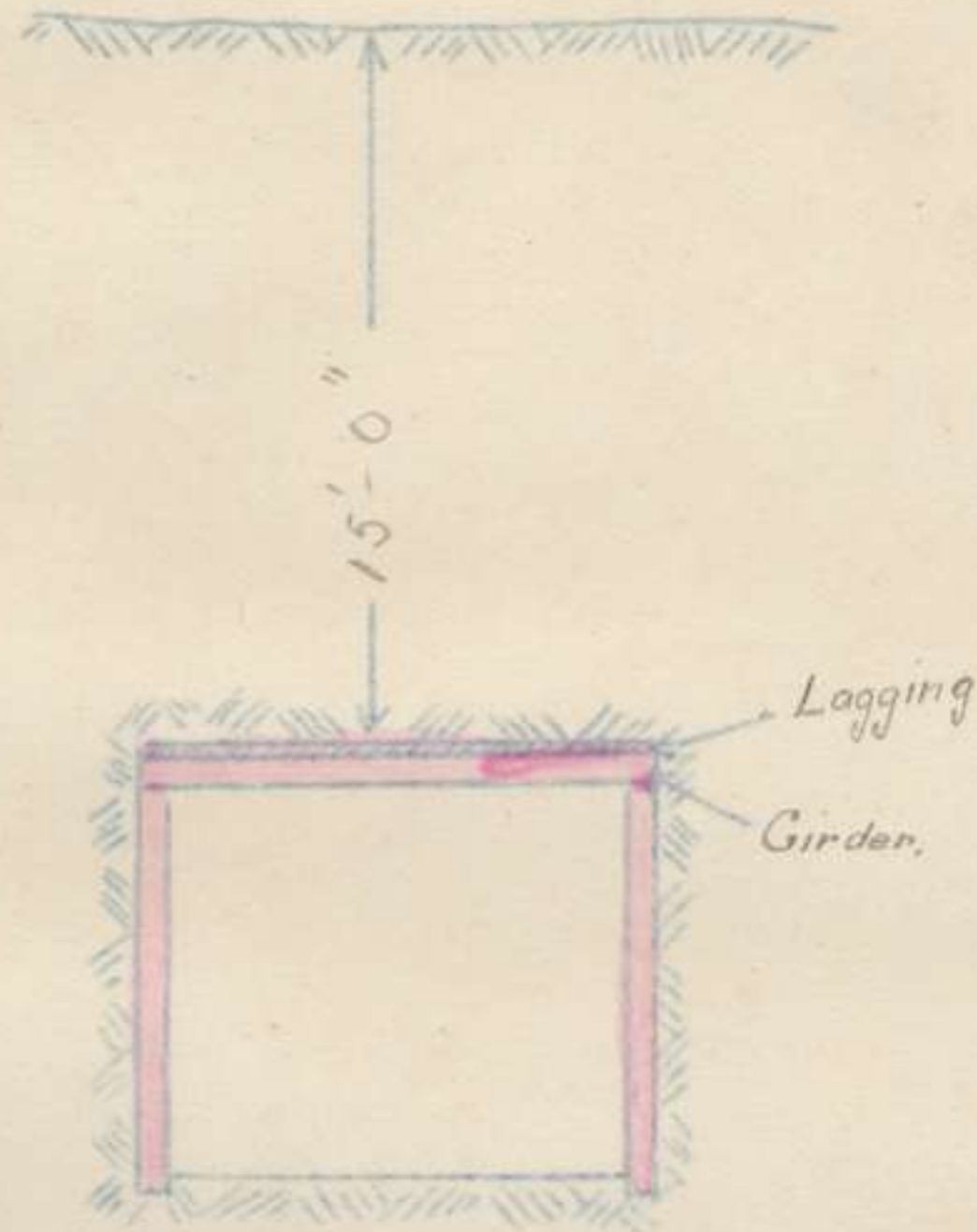




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3<sup>rd</sup>. Australian Tunnelling Coy.  
T.M. Emp<sup>t</sup>. in Cut-off Trench. Sheet. 44<sup>A</sup>. Ref. N8c-30-75  
Cover 15'-0"

Sketch "c"



Section A-B

