

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

Engineers

Item number: 14/20/43

Title: 1st Field Company, Australian
Engineers

July 1918



AWM4-14/20/43

CONFIDENTIAL.

ORIGINAL.

~~DUPLICATE.~~

~~TRIPLICATE.~~

Australian Imperial Force.

WAR DIARY

OF

1st. Field Company Aust. Engrs.

FOR

July 1918

Signature of Officer compiling

A. E. Johnson Capt

Signature of Officer Commanding

A. E. Johnson Capt
Major, A.E.
of 1st Field Coy. Engineers

WAR DIARY
or
INTELLIGENCE SUMMARY.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
U.18.b.2.2	July 1		<p>At this period, the company was split up as follows:- Headquarters and Nos 1, 3 and 4 Sections at U.18.b.2.2 (Sheet 27), No 2 Section under 2/LT. KERSLAKE at EBBLINGHEM, and Mounted Section at V.20.b.4.3. The company was responsible for such works as might be required by the Brigade in Reserve, and Sappers who were not required for works were put through a course of Technical and Recreational Training. No 2 Section were engaged in carrying out necessary improvements to Reinforcement camp at EBBLINGHEM during the whole period the company was in Reserve. The other Sections provided parties for work on Desamille track for ammunition siding near HONDEGHEM. The hospital Section supplied transport for carrying salvaged R.E. material from forward area.</p> <p>On this date a cricket team from the company played and defeated a team from the 1st Battalion.</p> <p>Transport for forward area - 5 S.D. Limbers, 1 S.D. Wagon.</p>	
	2		<p>Works and training continued. Cricket match v Artillery won by this company - Transport forward area 3 Porton Wagons, 3 S.D. Limbers</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
U.18.b.2.2.	July 3!		Works and Training Continued. Transport forward area, 1 Pontoon Wagon, 4 S.S. Limbers	<i>[Signature]</i>
	4		8 N.C.O's proceeded to 3rd Field Coy billets at BORRE to go over reconnaissance works in hand, preparatory to 1st Field Company taking over works. LT KERSLAKE relieved from EBBLINGHEM with No. 2 Section - Transport forward area 2 Pontoon Wagons, 5 S.S. Limbers. - Enemy attack repulsed by 3rd A.D. Brigade.	<i>[Signature]</i>
BORRE.	5		Dismounted personnel moved from billets at U.18.b.2.2 and proceeded to billets vacated by 3rd Field Company. All works taken over in right sector of 1st Aust. Divisional Area. The work now distributed as follows:- No. 1 Section (LT. WRIGHT) working with 1st Bn on Right front No. 2 do. (LT. KERSLAKE) on road bridge mines and sapping from Magazine Station Dump. No. 3 do. (LT. EARLE) on BORRE with Y.M.C.A. Dugout, Bde H.Q. & rear trenches. No. 4 do. (LT. PETERSON) working with 4th Bn on left front. No Infantry working parties available. Transport forward 4 Pontoon Wagons, 5 S.S. Limbers	<i>[Signature]</i>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	6/1		LT. EARLE from furlough to England - works carried on in conjunction with Battalions. Transport forward area 3 Porton Wagons, 1 B.S. Wagon, 5 B.S. Limbers	<i>[Signature]</i>
	7		b.O., Capt STEVENSON and LT. WRIGHT siting posts for STRAZEELE STN. DEFENCES, also inspecting MOLEGHEIN FARM defences on the right - the latter very incomplete. Working carried ^{out} on front line - work commenced on BORRE SWITCH. 8 th R taken on strength from Base details - Transport forward area 6 Porton Wagons, 5 B.S. Limbers, 1 B.S. Wagon	<i>[Signature]</i>
	8.		At about 8.30 a.m. five enemy shells dropped in vicinity of billets and one 'dud' came through the roof of a Cookhouse - no casualties. Lt W. BATTEN left company to join Engineer Cadet School in ENGLAND. Works continued chiefly improvements to trenches - weather close and huggy with a little rain. Transport forward - 3 Porton Wagons, 1 B.S. Wagon, 5 B.S. Limbers	<i>[Signature]</i>
	9		b.O. approved LT. KERSLAKE'S proposal to mine abutments of bridges as well as girders. 4 th Bnt. on left, went out under Artillery Barrage and captured eight posts. Six sappers followed to consolidate, and 2 nd Lt. H. M'BRIDE was killed.	<i>[Signature]</i>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	July 9		<p>The following is an account of this operation as described by LT. PETERSON the officer in charge of party of sappers:-</p> <p>At 11.30 p.m. a successful attack was carried out by the right company of the 6th Bn. and the left company of the 4th Bn. under cover of Artillery, medium and light trench mortars. The line was advanced about 300 yards and new posts were established at F.I.C.1.6, F.I.C. 40.95, and F.I.W. 5.3 (Sheet 27). 6 Machine Guns, 14 un wounded and 5 wounded prisoners were captured. Stout opposition was met in several places, owing to machine gun posts not having been destroyed by the barrage and lively bombing encounters took place before these posts were hopped up. Three wiring parties, each of 3 sappers and 15 infantry were assembled in a series of shell holes at E.G.B. 4.3 (Sheet 27) with necessary material. On the objectives being gained these parties proceeded to their task, one party to each post. 120' of French wire (concertina) was placed in front of each post by daybreak. A quantity of German wire was found dragged bodily into position, secured and thickened.</p>	

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	July 10		Quiet day. weather stormy wet - Transferred forward area 3 Portboon Wagons 5 B.S. Limbers 1 B.S. Wagon	[Signature]
	11		1st Inf Bde commenced the practice of going out by daylight and bringing in prisoners. They could be seen among the crops far beyond our outposts looking for the Boches. By 3 p.m. about 80 prisoners had been taken and we had no casualties. Day work commenced on Derijst C.T. 2 Lieut F.G. MOFFITT, late sufferer of 3rd Bde Coy, taken on strength.	[Signature]
	12		Weather stormy showery. Our artillery active but no reply from the enemy. Enemy plane flying low over our front line before dark. Owing to Bn relief only small working parties available. Transferred forward area 3 Portboon Wagons 5 B.S. Limbers.	[Signature]
	13		Party of Engineers from American Expeditionary Force arrived were attached to 1st A.D. Bde for experience. - 3rd A.D. Bde ^{being} relieved. 2nd A.D. Bde on left Sector - Enemy plane again flying low over our front line towards dusk. Working parties as usual - Transferred forward area 3 Portboon Wagons, 1 B.S. Wagon 4 B.S. Limbers	[Signature]

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE.	July 14		<p>1st A.S. Bde Sector slightly reduced and 1st A.S. Bde^(Right) being relieved by 87th Inf Bde (of 29th Div). Company still under 1st Aust. Division. New company remaining in Sector and working parties are provided by 87th Bde. Transport forward area 4 Porton wagons, 2 S.S. Limbers, 1 S.S. Wagon.</p>	<i>[Signature]</i>
	15		<p>Two American Officers (Capt. G.A. NOSKA and Lt. K. ATKINSON) and 6 N.I.O's all of 303rd Engrs 78th Div. A.L.F. attached to company for experience. They were shown over works & given every opportunity of gaining necessary information. - Bde relief completed - Transport forward area 4 Porton Wagons, 1 S.S. Wagon, 3 S.S. Limbers.</p>	<i>[Signature]</i>
	16		<p>Thunderstorm in early morning. Major D.G. SINCLAIR left on 14 days leave to England. 3 of 2nd Army Rest camp at AUDRESELLES - Work proceeding as usual with heavy Brigade. - Transport 4 Porton Wagons, 1 S.S. Wagon, 2 S.S. Limbers</p>	<i>[Signature]</i>
	17		<p>Officers & N.I.O's of A.L.F. left us: They have shown great keenness in learning all they could in the few days and there is a strong feeling of comradeship between us. The 29th Division is to leave this area and the Reserve Bde of 87th Bde is being relieved by 1st Bde of the 119th Bde (40th Div)</p>	<i>[Signature]</i>

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INTELLIGENCE SUMMARY.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	July 17		Work as usual. Transport 5 Portbar Wagons, 1 B.S. Wagon, 2 B.S. Hinkers	<i>[Signature]</i>
	18.		At 1.40 a.m. Pt. Border Regt. made a small raid on a Boche post with aid of our Artillery. The boche damage appears to have been too severe as the post was found to be deserted. 87th Bde relieved by 119th Bde. All working parties cancelled except those for Salvage at STRAZEELE. - Weather closed & muggy. 10th transferred to M.G. Bn - 10th transferred to 113 Bombardier Battery. Transport 5 Portbar Wagons 3 B.S. Hinkers	<i>[Signature]</i>
	19		9th Division on our left captured METEREN and our 3rd Bde picked up about 100 prisoners. Transport forward area 5 Portbar Wagons 3 B.S. Hinkers	<i>[Signature]</i>
	20		S.O.B. 119th Bde considers the front line and support line too far apart and wants to get two companies between them, so we commenced work on accommodation in rear of 5 posts of the STRAZEELE STN DEFENCES.	<i>[Signature]</i>
			LT. McCONNEL took over all lines in Divisional Sector with a Demolition Section composed of 60% from each Field Company. Transport forward area 5 Portbar Wagons, 1 B.S. Wagon, 2 B.S. Hinkers.	<i>[Signature]</i>
	21		An alteration is to be made in the distribution of Field Coy work.	<i>[Signature]</i>

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in order

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	21		<p>in order to provide for a definite rest period. There will be one company on front and support lines throughout the Divisional Sector, one company on the Divisional Reserve line and Range lines and battle line switches; and one company out in rest. Third Field company consequently will take over the whole front and support system. Advance parties from the companies interchanged in view of above. Transport Forward Area 4 Portbar Wagons, 1 B.S. Wagon, 2 B.S. Timbers. Light parties available only for Reserve line</p>	<p><i>[Signature]</i></p>
	22		<p>Lt PETERSON commenced the instruction of crews for the new Lewis Guns now on our establishment. Working parties from new Brigade hotel all satisfactory in keeping their appointments. - 3rd A.S. Bde troops patrolled night round MERRIS and night guard occupied it, but orders were issued not to take it. Transport. 4 Portbar Wagons, 1 B.S. Wagon, 2 B.S. Timbers</p>	<p><i>[Signature]</i></p>
	23		<p>Parties for work on Range lines and battle line switches and light parties of Reserve line being drawn from 3rd A.S. Bde. Parties for light parties of Reserve line for taking from STRAZEELE drawn from 119th Bde.</p>	<p><i>[Signature]</i></p>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BOTRE	July 23		Kept at home. Transport 2 Portland Bagons, 1 B.S. Bagon, 2 B.S. Limbers	<i>[Signature]</i>
	24		Nothing of special interest - Transport 2 Portland Bagons, 2 B.S. Limbers 2 B.S. Bagons	<i>[Signature]</i>
	25		Suggestion that further work on accommodation in the Switch Line would be thrown away, approved by C.R.C. D.B.C. preparing a new Works Policy necessitated by forward movement of front LT. EARLE commenced instruction in wiring of the parties from the Reserve Bn. of 119 th Bde. - commenced reorganisation of a company concert party in view of our going out to rest in a few days Transport forward 2 Portland Bagons, 1 B.S. Bagon, 4 B.S. Limbers. - 1 st Bn. Hospital	<i>[Signature]</i>
	26		Instructions received from C.R. to re change of work - Work on Switch Lines to be discontinued and work on Support Line to be taken over from 3rd Bde. by the latter to commence a new Support Line further forward. New work commenced in evening. Transport forward Area 3 Portland Bagons, 1 B.S. Bagon, 5 B.S. Limbers	<i>[Signature]</i>
	27		Raining in morning - Transport 2 Portland Bagons, 2 B.S. Bagons, 4 B.S. Limbers.	<i>[Signature]</i>

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
BORRE	July 28.		<p>Mailed file - 1 L.B.O. proceeds to Engr. Insp Dept BRIGHTLINGSEA. Preparation of programme for concert Party on proceeding to Red Area Transport. 3 Portbar Wagons 4 S.S. Timbers, 1 S.S. Wagon.</p>	<p><i>[Signature]</i></p>
	29		<p>LT EARLE and S.S. reconnoitre new banking area at RACQUINGHAM Parties from 3rd Field Company shown over works preparatory to taking over - Working parties not left cut out owing to proposed attack on MERRIS. Transport. 3 Portbar Wagons 6 S.S. Timbers</p>	<p><i>[Signature]</i></p>
	30		<p>Artillery barrage commenced at 12.30 a.m. - 3rd A.S. Bde captured MERRIS. - All works handed over to 3rd Field Company and 1st Field Company marched from BORRE at 2.30 p.m. and proceeded to billets at U.18.b.2.2 (Sheet 29)</p>	<p><i>[Signature]</i></p>
RACQUINGHAM	31		<p>Company ^{Desmounted personnel} marched out from billets at U.18.b.2.2. and marched via <u>WALLON CRAPPEL</u> and <u>BLARINCHAM</u> to camp at B.19.b.8.4 RACQUINGHAM arriving at mid-day. As there was no accommodation ready, all hands set to work erecting tents and shelters.</p>	<p><i>[Signature]</i></p>

WAR DIARY

APPENDIX //

19

OF

1st Field Company A.E.

FOR

July 1918.

LIST OF APPENDICES.

- | No. | Subject. |
|-----|--|
| A. | <u>Strengths and Burials</u> |
| B. | <u>Summary of Work for Month.</u> |
| C. | <u>List of Salvaged Material</u> |
| D. | <u>Coastal Land Mines</u> |
| E. | <u>To accompany Original copy only -</u> |
| 1. | <u>The 'JOHNSTON' Showers.</u> |
| 2. | Disposition of Sections. 21 st to 26 th July |
| 3. | do do 26 th to 30 th July. |
| 4. | Method of Strengthening Building for H.D.S. |
| 5. | Defences in Second Zone Area. |
| 6. | Defences in Right Brigade Sub-Sector. |
| 7. | Parts of Sheet 27 S.E. and 36 A. N.E. |

J. H. Hurstson Capt.

Major, A.E.
of O.C. 1st Field Coy. Engineers.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			APPENDIX A. <u>STRENGTH.</u>	
			9 off. 232 $\frac{0}{R}$ at 30.6.18.	
			10 off. 235 $\frac{0}{R}$ at 31.7.18.	
			<u>Arrivals, departures, and casualties during month</u>	
			Reinforcements From Hospital	
			1 off. -	
			12 $\frac{0}{R}$	
			To Hospital	2 $\frac{0}{R}$.
			Killed in action	1 $\frac{0}{R}$.
			Transferred	3 $\frac{0}{R}$.
			Returned to Australia	1 $\frac{0}{R}$.
			To Engng Ing Depot B'SEA	1 $\frac{0}{R}$.
			To Engng Acad School, Eng.	1 $\frac{0}{R}$.
			APPENDIX A. <u>BURIALS.</u>	
			No 1921 LCpl. H.M. McBRIDE buried at Military Cemetery BORRE.	

APPENDIX A

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W. S. Emerson Capt.
Major, A.E.
Q.O. 1st Field Coy. Engineers

Summary of work done by 1st. Field Company for month of July 1918.

Front. Line.

1125 yards D.A.Fence erected.
 676 yards S.A.Fence erected.
 1030 yards French wire erected.
 270 yards existing wire strengthened.
 300 yards trench excavated.
 366 yards breastwork built.
 580 yards trench improved
 Excavations for 43 Shelters.

Reserve Line.

224 yards trench excavated.
 219 yards trench improved.
 28 Shelters completed.
 44 Shelters excavated.

Courte and Rouge Croix Switches.

67 yards trench excavated.
 16 Shelters completed.
 14 Shelters excavated.

Support Line.

420 yards D.A.Fence erected.
 30 yards S.A.Fence erected.
 210 yards existing wire repaired.
 120 yards trench excavated.
 2116 yards trench improved.
 376 yards trench revetted.
 11 Shelters completed.

Strazeele Stn Defences.

7 Strong Points excavated.
 5 do do extended 15 yards.
 150 yards trench revetted.
 100 yds revetment 50% complete.

2nd. Zone Defences.

120 yards trench excavated.
 484 yards trench revetted.
 1000 trench prepared for revetment.
 18 Shelters completed.
 32 Shelters excavated.
 285 yards paradoss built.

Accommodation.

E.6.b.1.1. Consolidation of Coy. H.Q.
 W.29.d.1.3. Strengthening Cellar for Coy. H.Q.
 E.5.b.8.3. Consolidating Bn H.Q. and making doors Gas Proof.
 W.29.c.4.2. Strengthening R.A.P. with S'bags and fixing Gasproof doors.
 E.3.c.08.75. Strengthening of Bn. H.Q. walls.
 E.4.d. 40.05 R.A.P. Entrance porch Strengthened.
 E.4.c. ~~W.29.d.1.3~~
 25.85 New Bn. H.Q. strengthened.
 W.25.a.4.8. Strengthening Bde. H.Q. Dugouts, building Bath-House
 and camouflaging walls.
 W.19.c.8.8. A.D.S. Wall strengthened with Sandbags. (See sketch Appendix E)
 W.27.b.9.4. Building Dugout for Y.M.C.A.
 V.24.c.7.4. 8 Shelters completed.
 V.24.d.5.7. 14 Shelters completed.
 W.26.b.8.1. Company H.Q. protected.
 W.27.a.5.0. 2 Dugouts completed and rendered gas-proof.
 W.26.d.4.4. R.A.P. strengthened.

Salvage as per Appendix C.

In addition Sappers were employed guarding and renovating mines,
 and guiding Transport.

J. H. Johnson
 Major, A.E.
 1st Field Coy. Engineers

List of R.E. Material salved from STRAZELLE DUMP by 1st. Fld. Coy Engrs.

Month of July 1918.

Adzes.....	10	Pipe Fittings Large.....	7.
Adze Heads.....	16.	Plates Loophole G.S.W'gon Lds	2.
Bolt Cutters, pairs.....	5.	Pickets Horse Line	4.
Ball Valves, boxes.....	1.	Pipes, Artesian Well.Sets...	27.
Bath House fittings, sets.....	3.	Picks.....	70
Broom Handles.....	100.	Push Picks.....	30
Blacksmiths Bellows (36")..	10.	Pick Handles, Bags.....	8
Bolts and Nuts., cwts.....	131.	Pickets, wood.....	50
Bars, pinch.....	167	Portable Forge.....	1
Brushes, paint.....	12.	Pipes Feet.....	6072.
Belt, power.....	1.	Pipe Flanges 4".....	105.
Bolts ring, cwts.....	1.	Pipe Fittings... ..	12.
Boards Switch.....	3.	Pipe Steel. Lenghts.....	9.
Bridging Material ,Inglis		Planking, Rough feet....	200.
Sections.....	9.	Rivets, cases.....	3.
Bridging material Inglis		Red Lead, cases.....	6.
G.S.W'gon Loads.....	6.	Rubber Tyred Wheels.....	55.
Bridges Trench.....	11.	Spikes, cases.....	9.
Barrows, wheel.....	4.	Staples, bags.....	86.
Couplings Pipe.....	1.	Saws, large Band.....	1.
Colour Dry, Drums.....	2.	Sleepers. Railway.....	568.
Crows Jim.....	3.	Steel Cable 1 1/2 ins.Coils..	9.
Dogs and Spikes, G.S.W'gon...	1.	Saws, Circular.....	2.
Dynamo.....	1.	Safety Fuse, cases.....	5.
Dogs, Railway cwts.....	20.	Sawn Timber mixed, G.S.W'gon Lds	7.
Engine Oil Blackstone.....	1.	Sign Boards Enamelled.....	25.
Grindstone and case.....	1.	Scrapers Road.....	60.
Gear Differential, cases.....	2.	Steel Cable G.S.W'gon Loads...	2
Glass, cases	10.	Shower Fittings, boxes.....	1
Glue, 1 cwt. bags.....	6.	Screws, Coachwt,....	21
Grindstone and fittings.....	2.	Spikes Dog, .cwt.....	48
Gas Alarm.....	1.	Steel Troughing., Sheets.....	30
Hammers, hand.....	20.	"T" Hinges, pairs.....	5
Hammers, 10 lbs.....	10.	Tacks, 1 cwt Boxes.....	13
Iron Wheels and Axle, pairs...	1.	Timber Light G.S.W'gon Loads..	1
Iron Corrugated, Sheets.....	310.	do Rough do	4
Iron Flat (3"x 1/4) cwts.....	8.	do Squared do ft.....	136
Joists, Steel Rolled, Lengths..	90.	Troughs Canvas Horse.....	220.
do do G.S W'gon Loads.	2.	Valves.Wheel.....	33
Lock Rim.....	1.	Washers, cases.....	1
Planks, Decking.....	12.	Wire, plain cwts.....	177
Maul Heads.....	133.	Wool Lead, bags.....	8
Metal Expanded G.S.W'Gon Loads...	4.		
Merewether Fire Engine.....	1.		
Marble Slab.....	1.		
Nails, cwt bags.....	431.		
Netting Wire, Geeman Rolls.....	1.		
Pick Heads.....	11.		
Pump Handles.....	46.		
Paint Drums.....	27.		
Pipe Fittings, Boxes.....	66.		
Plate Shears Pairs.....	2.		
Pumps.....	8.		
Pumps, L and F.....	36.		
Pumps Air.....	100.		
Pumps Suction, Roses.....	4.		
Planks. Crossing.....	13.		

Value of above material as
per 1st. Aust. Div. Routine Orders
dated 29.7.18. - { 8,393 - 2 - 2.

J. B. Thomson Capt.
Major, A.E.
O.O. 1st Field Coy. Engineers

19 Report of experiment in hasty land mines carried out
by 1st. Field Company 12/7/18.

By Lieut. S. McConnel.

The object of this was to blow suitable craters in roads and railway embankments, to obstruct an enemy advance.

A 2" auger was used and extension pieces made so that holes 20' deep could be rapidly bored in the clay of this district. Such a hole up to 20' can be bored in a few minutes, without any ~~existence~~ difficulty whatever by two men.

A charge of 1lb. of ammonal was blown at the bottom of the hole to "Bull it" to give a cavity large enough to hold several hundred pounds of ammonal which when exploded will form a large crater

A hole 12 feet ~~deep~~ deep was drilled and after "bulling" with ammonal, 100 lbs. of same explosive was dropped into the cavity thus formed. A good crater 33 feet in diameter and 12 feet deep was found in less than ^{an hour's time} from the time of commencement, and with some training such craters could be blown in less than half an hour by two sappers. Such craters would be invaluable during a retreat.

In wet holes blasting gelatine could be employed and such could be left in the ground for some considerable time.

Ammonal in narrow cylindrical tins and Cordeau fuse might be used, then the mines could be abandoned without any necessity of drawing the charge.

S. McConnel Capt.
of G.O. 1st Field Coy. Engineers.

1st Field Company Engineers
1st. Australian Division.
23rd. July 1918.

Description of Portable Hot-Water Shower.

Suction hose (1") . Canvas hose Delivery (1") from pump to connection on coil. Canvas hose Delivery (1") from coil to shower. Pump Semi-Rotary No.2. Showers $\frac{1}{2}$ " Water pipe in four sections and eight Roses as per sketch. Bars for supporting coil in fire-box $\frac{1}{2}$ " pipe rivetted outside box. Coils copper $\frac{3}{4}$ " . Fire-Box 12"x12"x12" 22 guage sheet iron. Fire grate 11 $\frac{1}{2}$ " square. Coil box 18 guage sheet iron. Four uprights 1 $\frac{1}{2}$ "x1" . Two cross pieces 1"x1" .

Box to carry Fire, Fittings complete 3'2"x14"x13'.
WATER CAPACITY.

~~Eight men 5 minutes. Water Hot or Cold Four Gallons.~~

Eight men can be bathed in three minutes, using hot or cold water.

W. H. Johnson Capt.
Major, A.E.
O.C. 1st Field Coy. Engineers

Reference " JOHNSTON " Shower, as per attached Sketch.

Owing to the difficulty that has often been experienced in procuring the use of baths in convenient places, for the men of this Company, the idea of obtaining a small portable bath, was taken up.

During Salvage operations at STRAZEELE, various parts were obtained which made it possible to give effect to the above and a bath was designed to give the troops a hot and cold shower, while using a minimum amount of fuel and water.

The weight of the complete bath is approximately 40 lbs.

It has been termed the " JOHNSTON " Shower owing to the fact that the whole idea first originated with C.S.M. JOHNSTON of this Company, and it is entirely owing to his energy and perseverance that the scheme has proved an entire success.

The Shower has now been in use for about three weeks and has proved a great boon to the entire Company.

W. H. Johnson Capt.
Major, A.E.
O.C. 1st Field Coy. Engineers

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APPENDIX

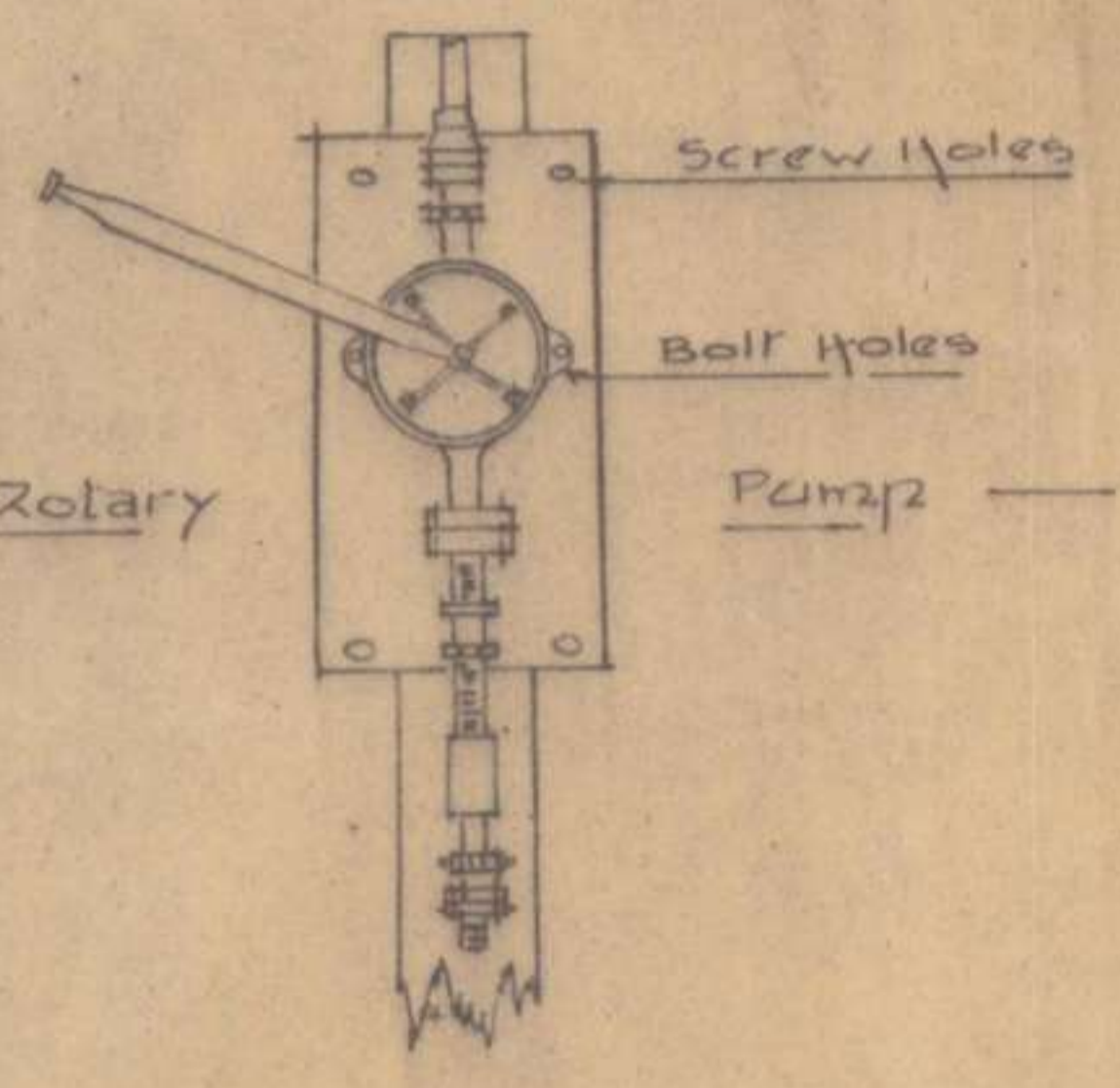
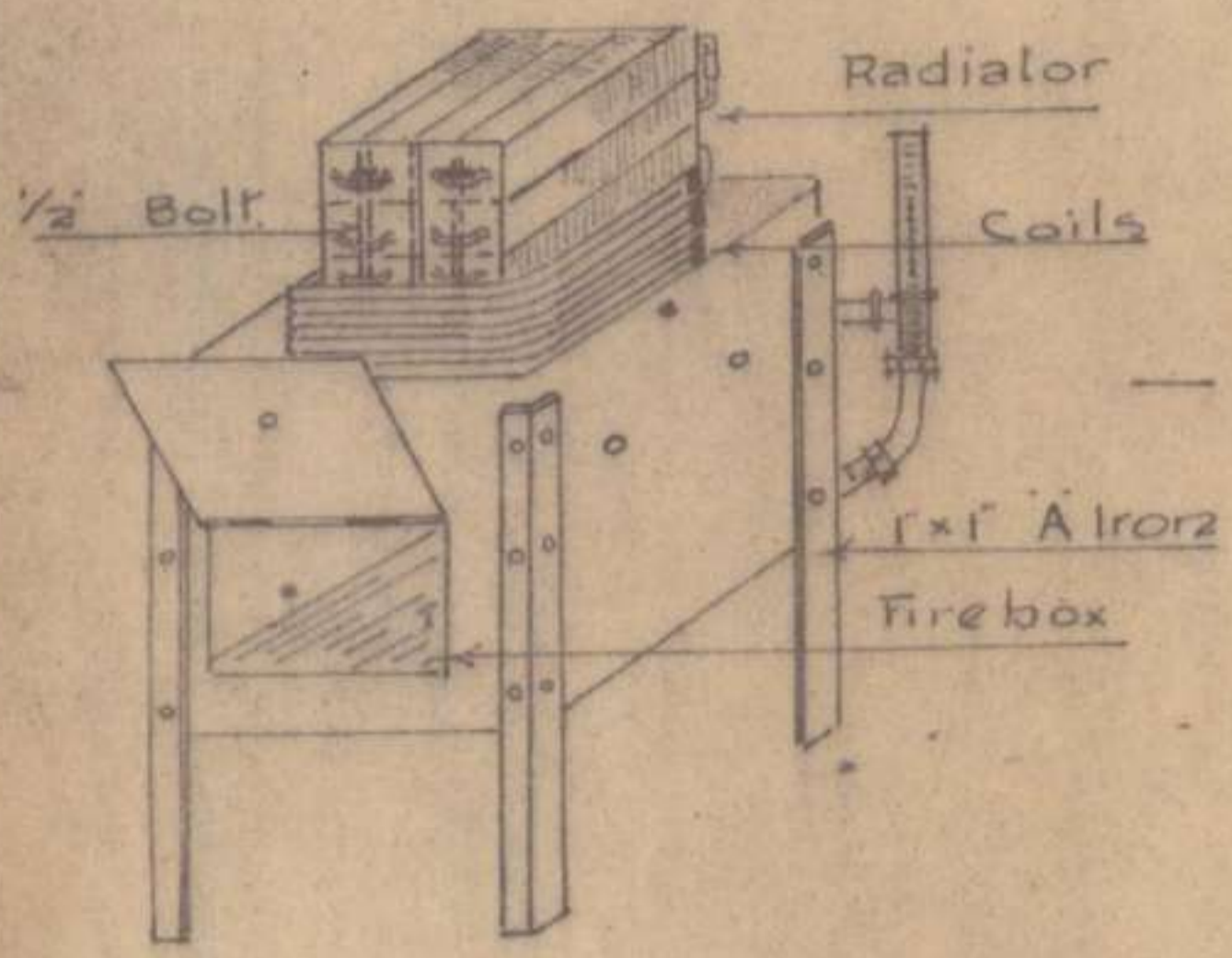
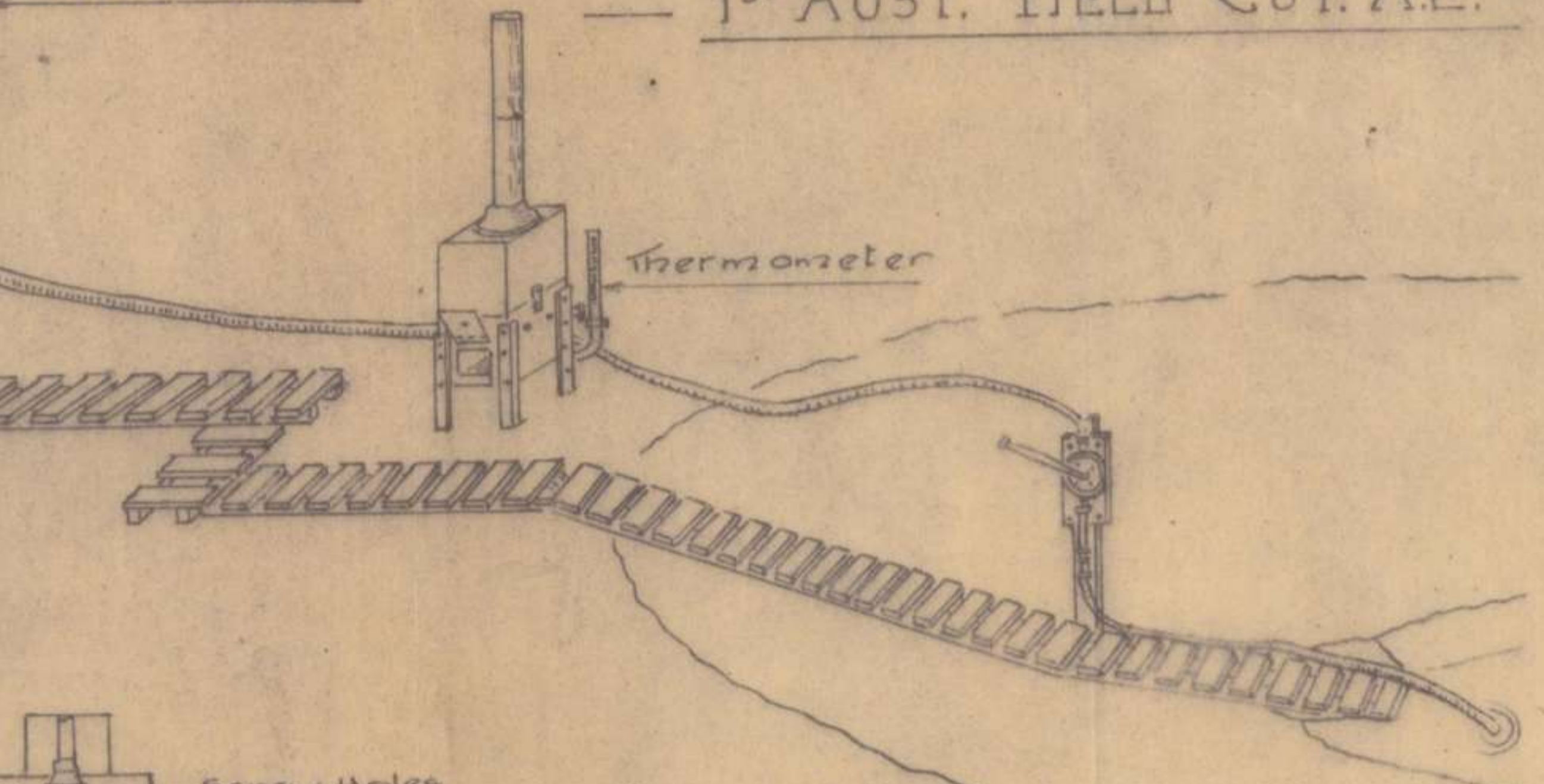
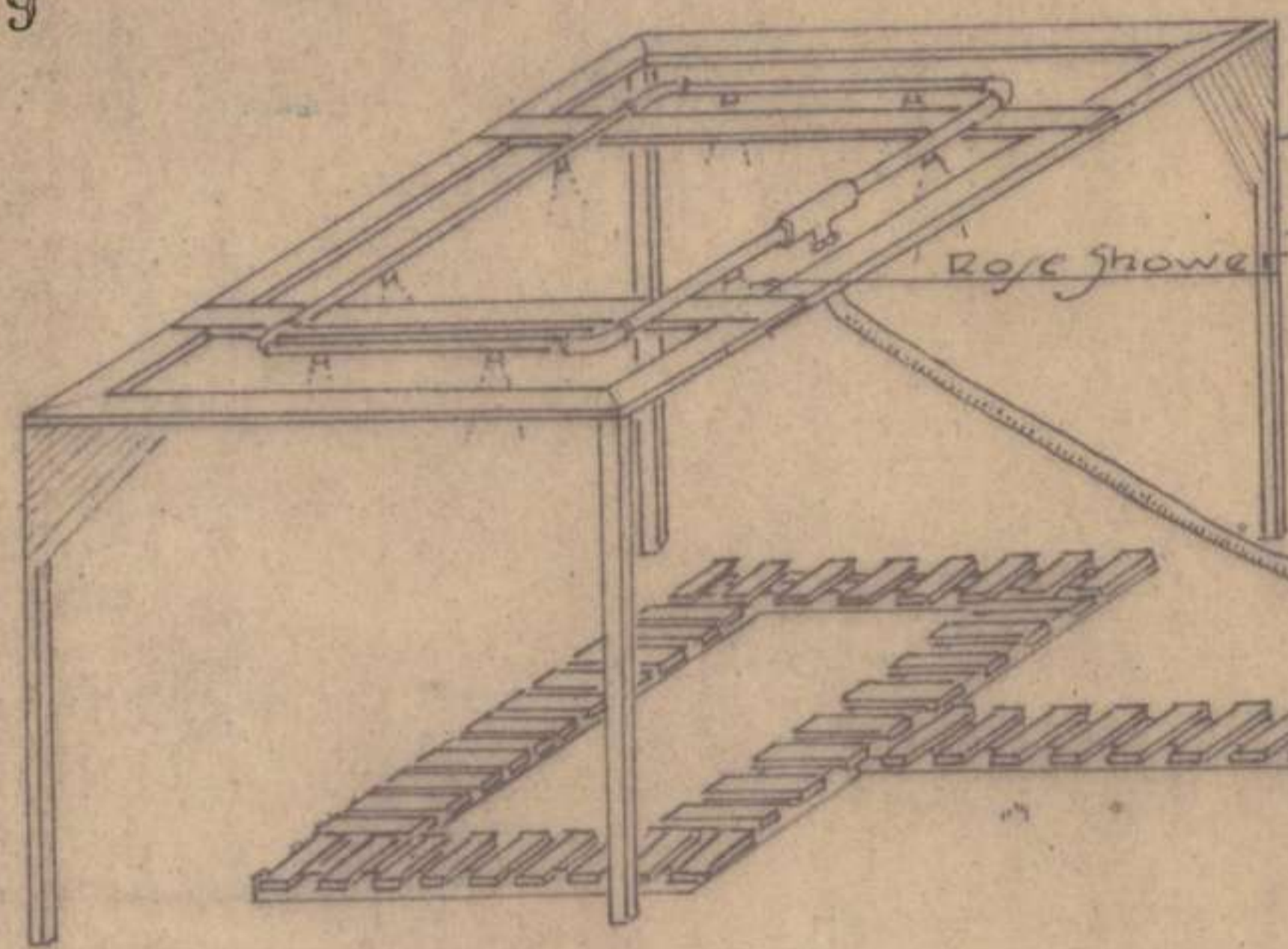
17

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"JOHNSTON" SHOWER

— as adopted by —

— 1st AUST. FIELD COY. A.E. —

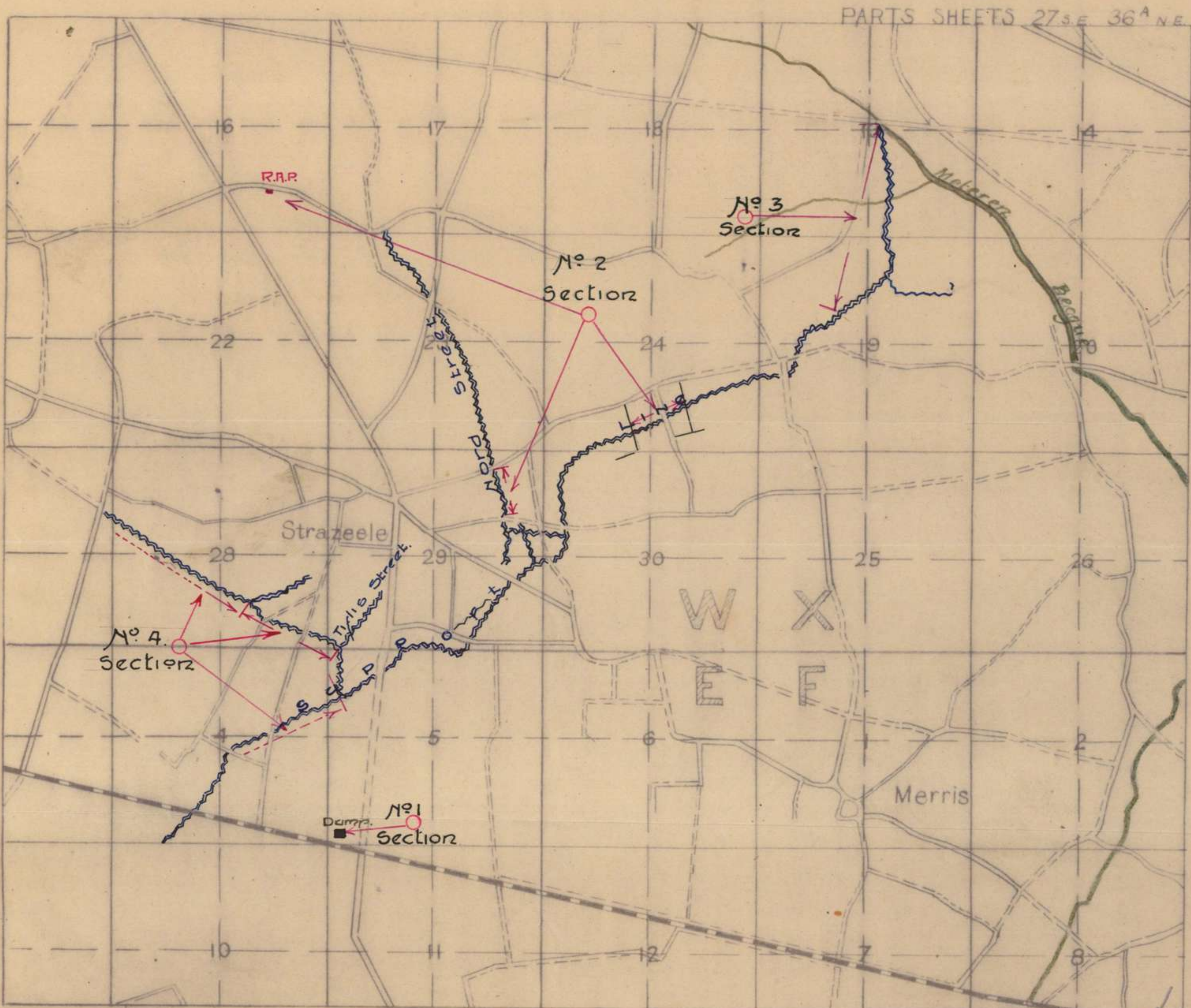


APPENDIX
17

SUPPORT FIELD COMPANY

Distribution of Sections

26th to 30th July 1918.



18

18

[Handwritten signature]

18

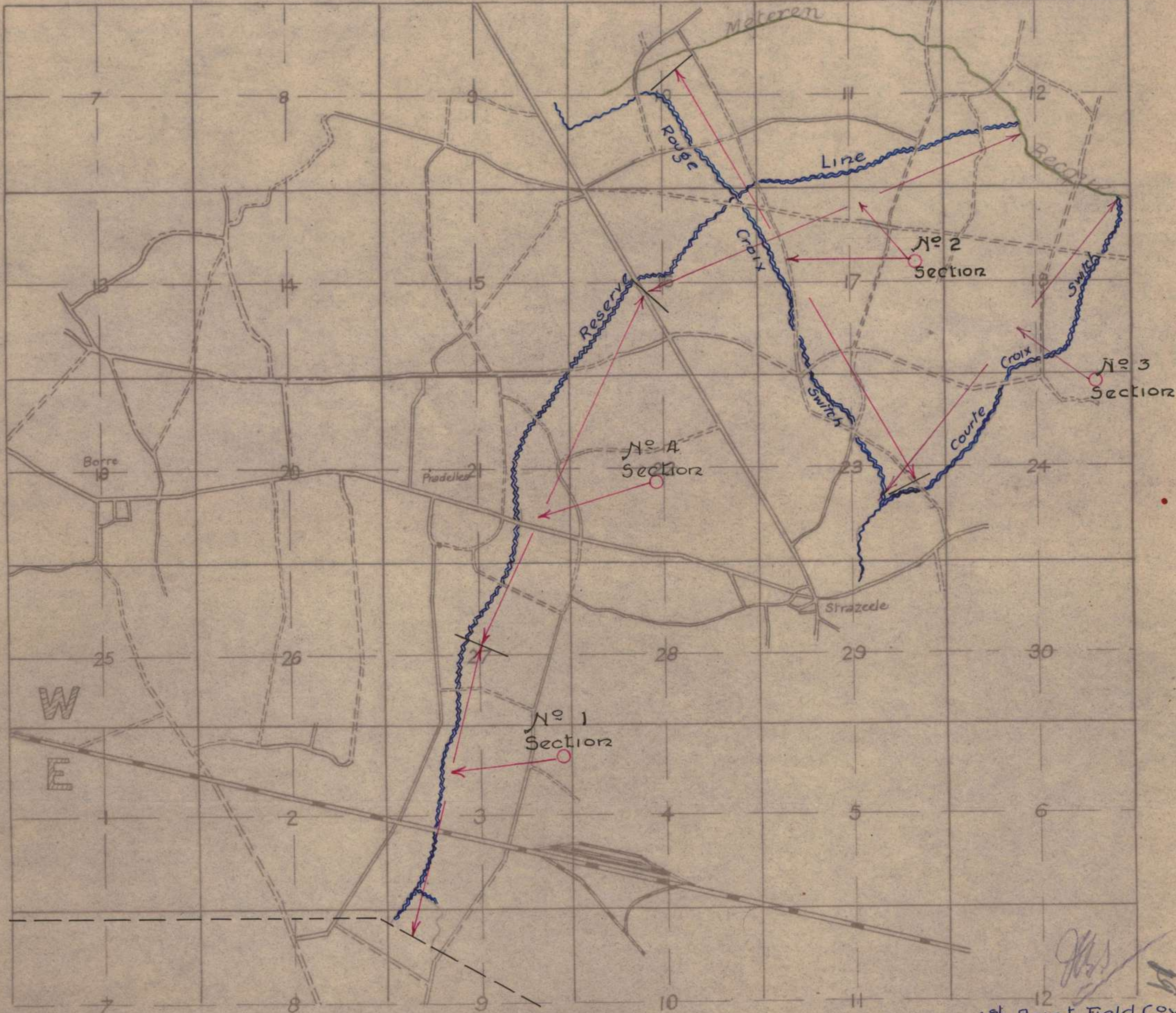
APPENDIX

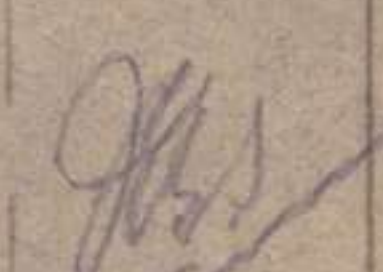
SECOND ZONE FIELD COMPANY

Distribution of Sections

21st to 26th July 1918

PARTS SHEETS 27 SE 36^A NE




 1st Aust Field Coy
 Errors.

1918

19

APPENDIX

2(3)

METHOD OF STRENGTHENING BUILDING FOR A.D.S.

As per attached sketch.

Method of strengthening an old Brewery Building on the Hazebrouck Strazeele Road at Borre.

The main room (the only one protected) to be used as A.D.S. 61feetx20feet, the old joists have been tommed by sleepers standing on 9"x5" sills resting on a concrete and tile floor, these uprights are placed 5feet apart, and in between the rafters 9"x 5" top sills were used and ^{supported} strutted in the same manner as the joists.

The outside wall is protected by 3'6" Brick and Sandbag wall 10' high and strengthened to a height of 4'6" with 9"x 4" timber strutted at intervals of 4' with 10"x 5" timber and expanded metal.

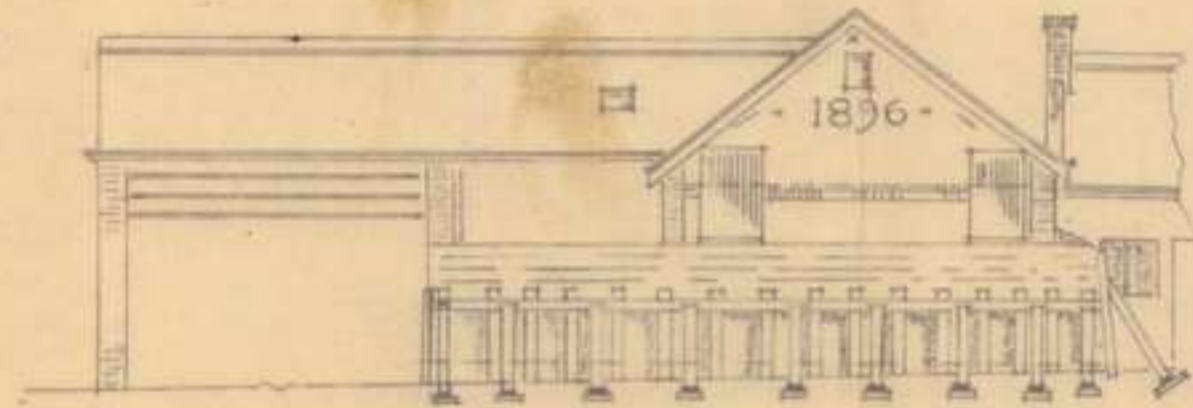
J. S. Hurman Capt.

Major, A. E.
9 O.O. 1st Field Coy. Engineers

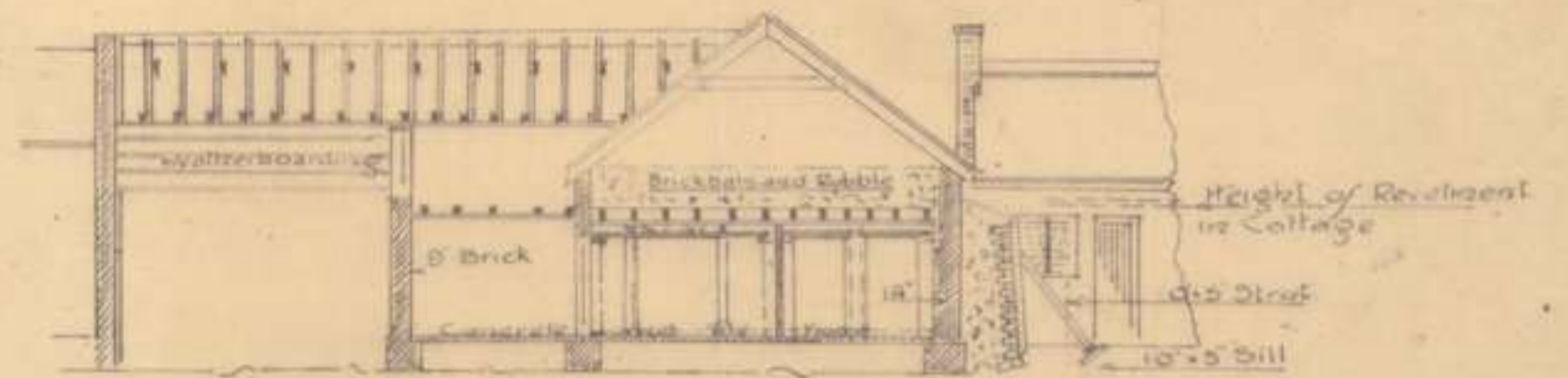
METHOD OF STRENGTHENING BUILDING FOR A.D.S.

As adopted by —

1st AUST. FIELD COY. A.E.

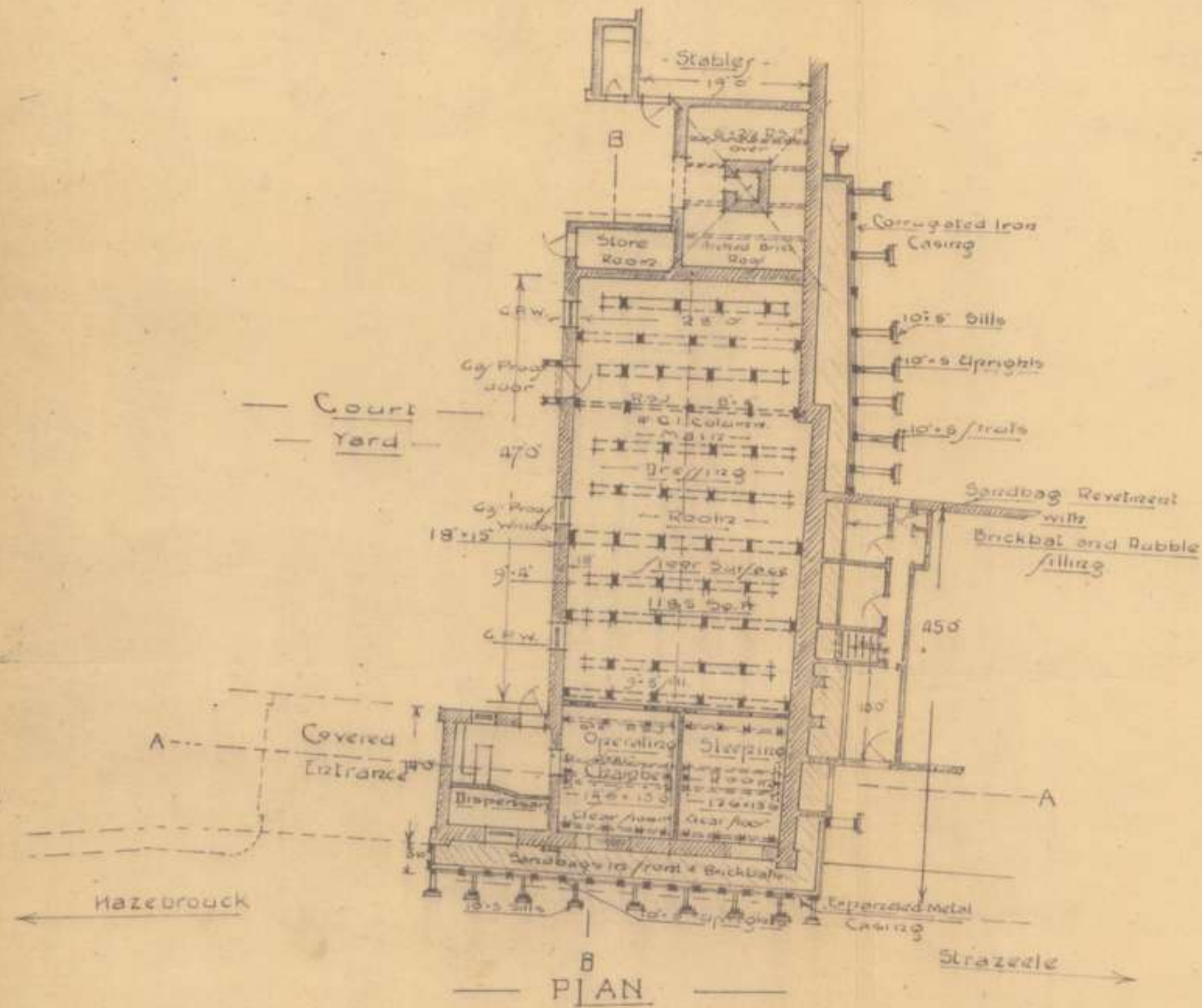


FRONT ELEVATION

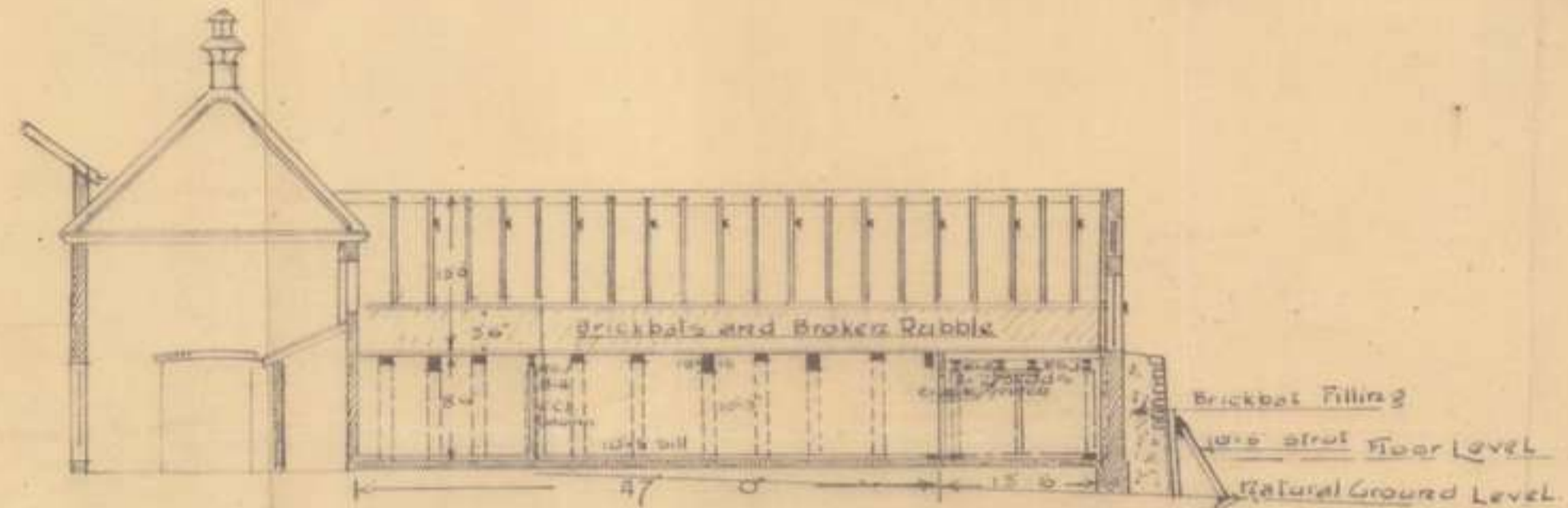


SECTION

A ——— A



PLAN



SECTION

B ——— B

Scale



24 July 1918

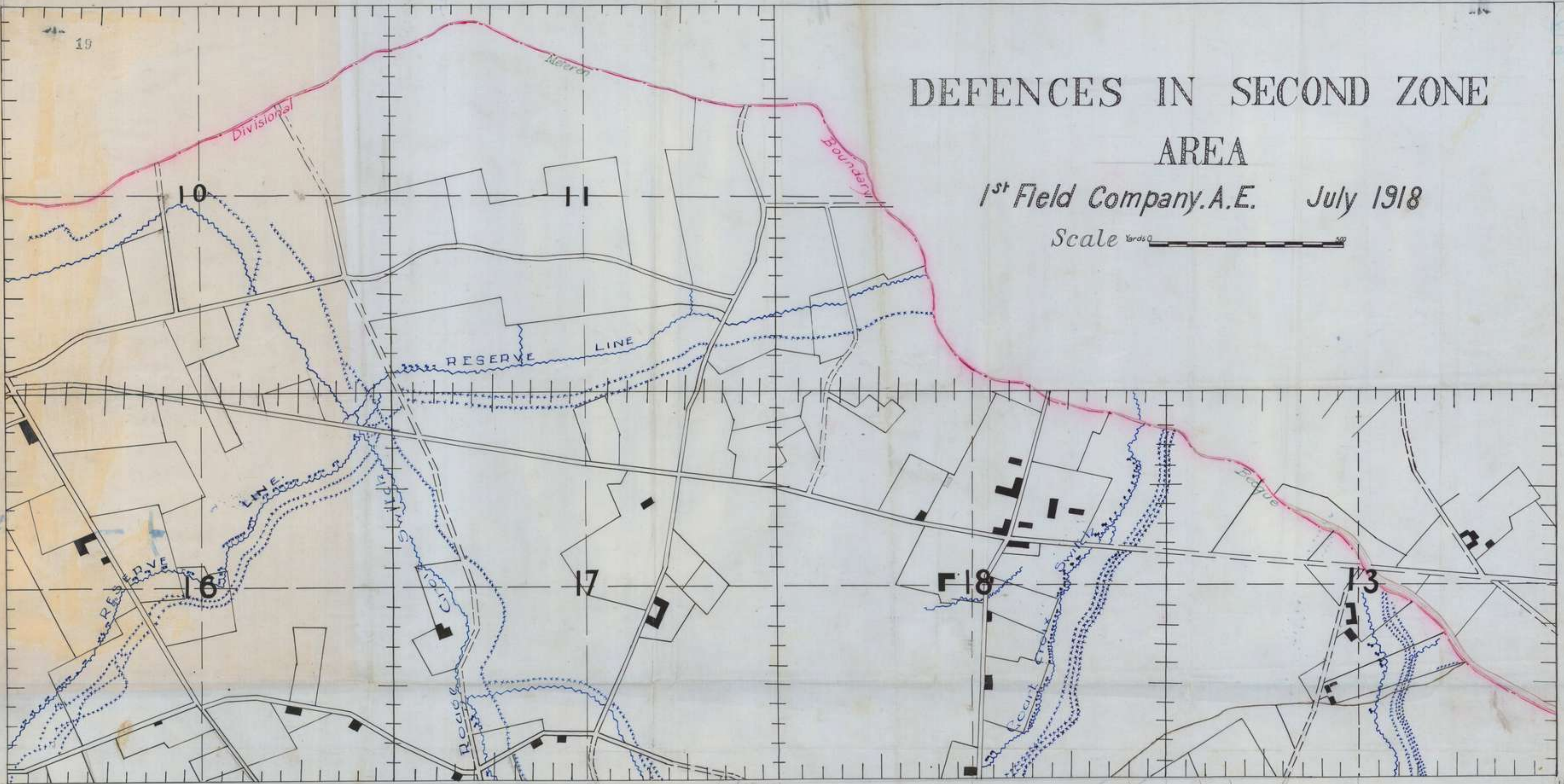
APPENDIX
64

21

DEFENCES IN SECOND ZONE
AREA

1st Field Company A.E. July 1918

Scale Yards 



29

DEFENCES IN SECOND ZONE

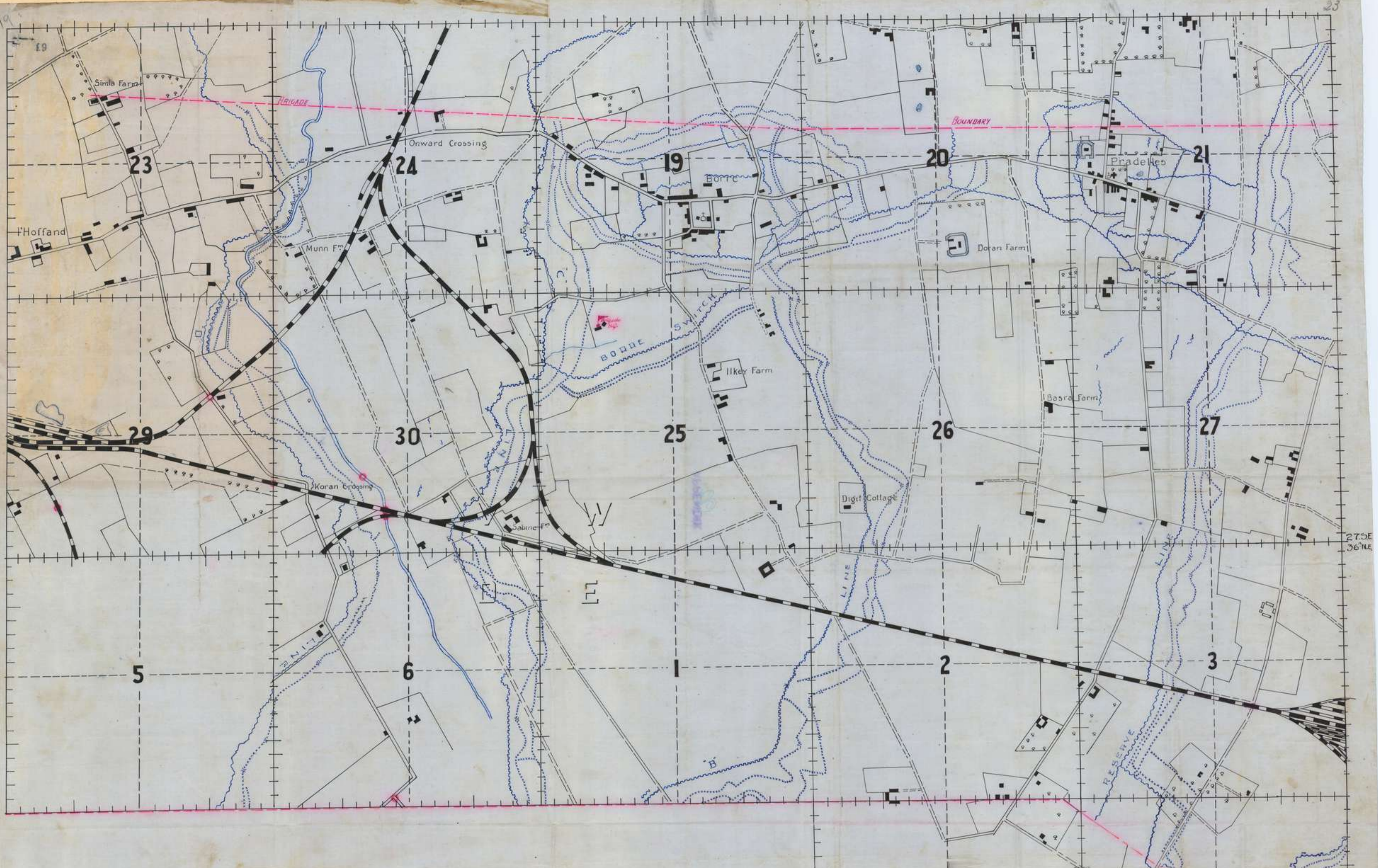
AREA

1st Field Company A.E. July 1918

Scale 1:50,000



22

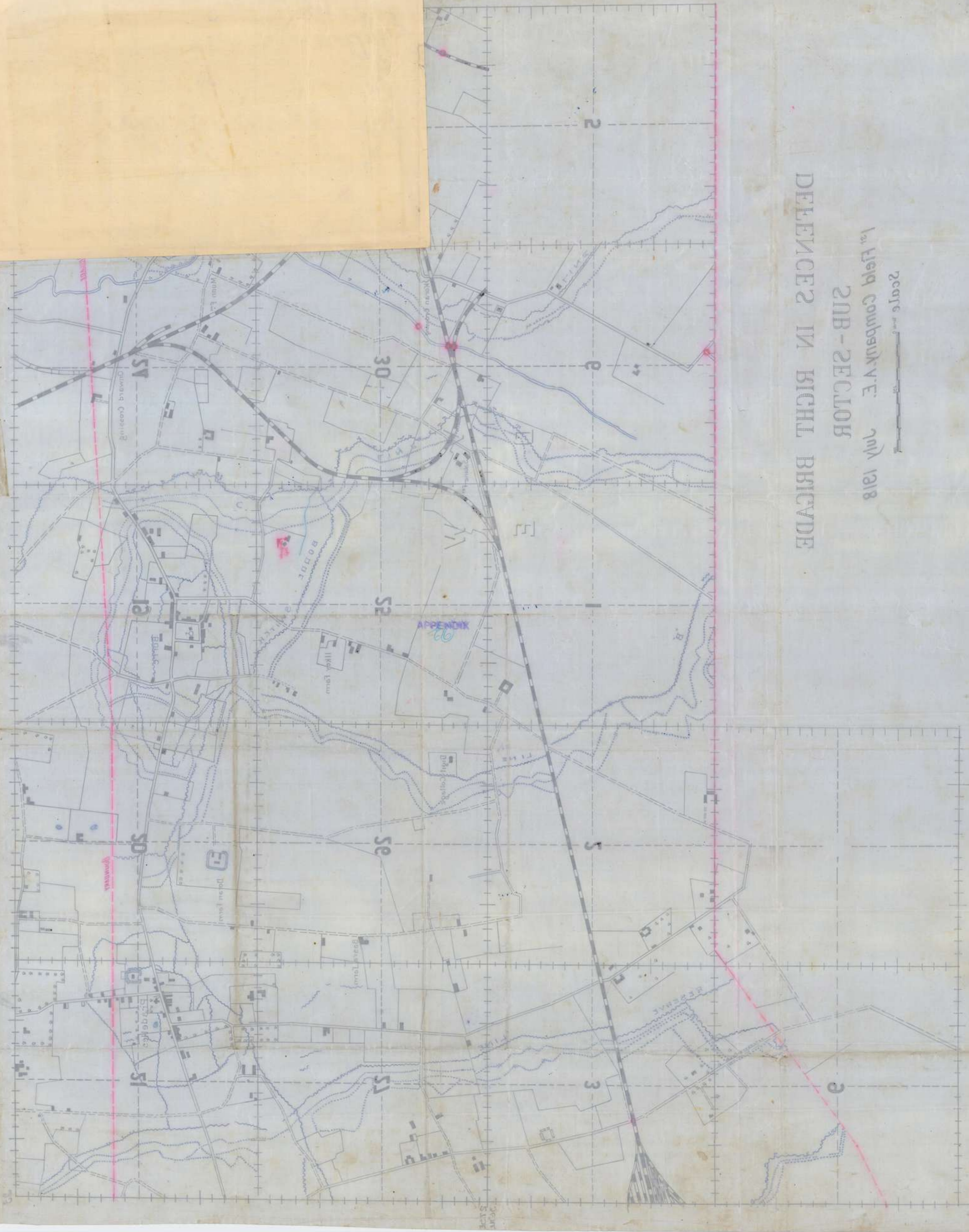


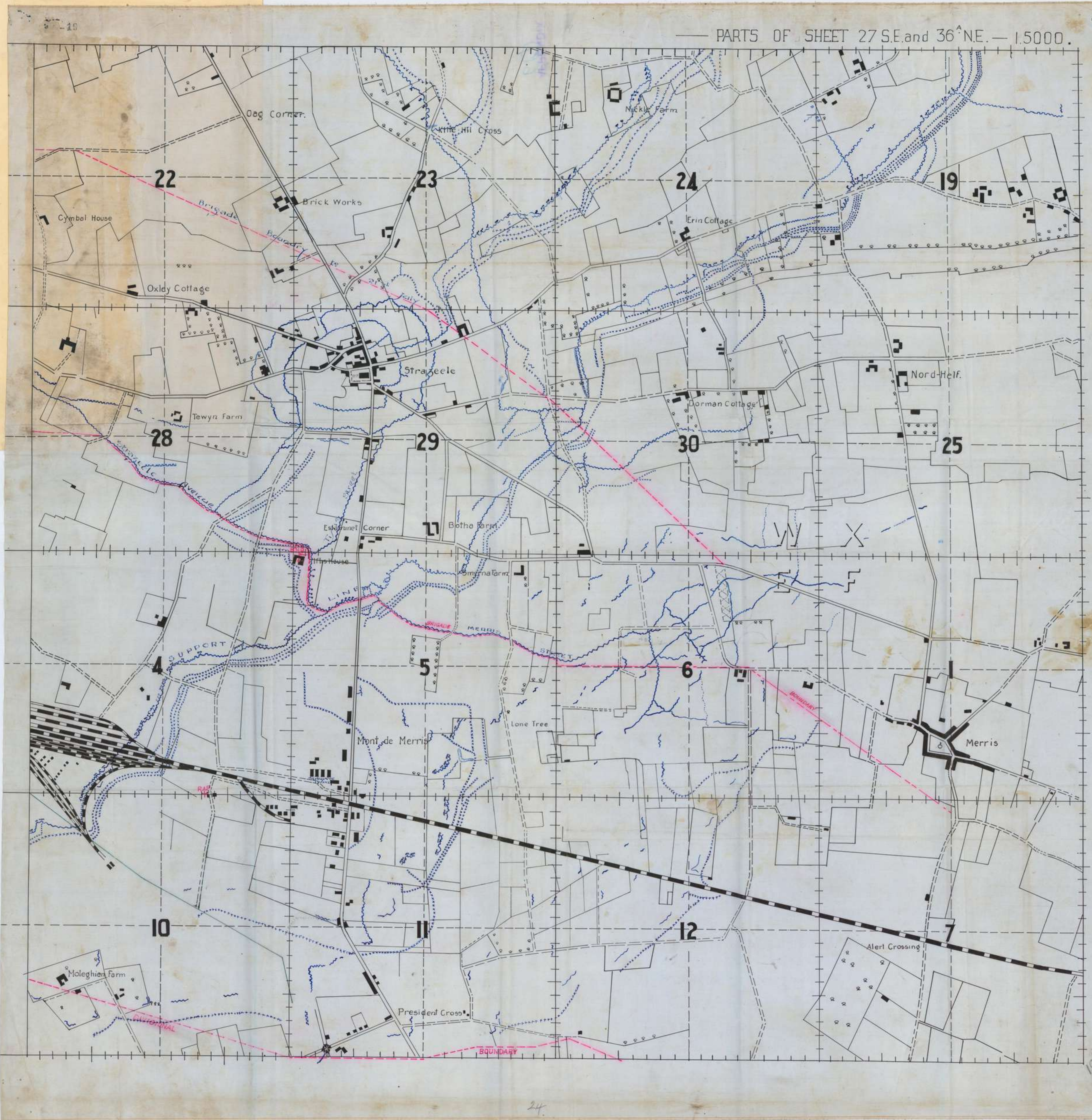
DEFENCES IN RIGHT BRIGADE
 SUB-SECTOR
 1st Field Company. A.E. July 1918
 Scale $\frac{1}{2500}$

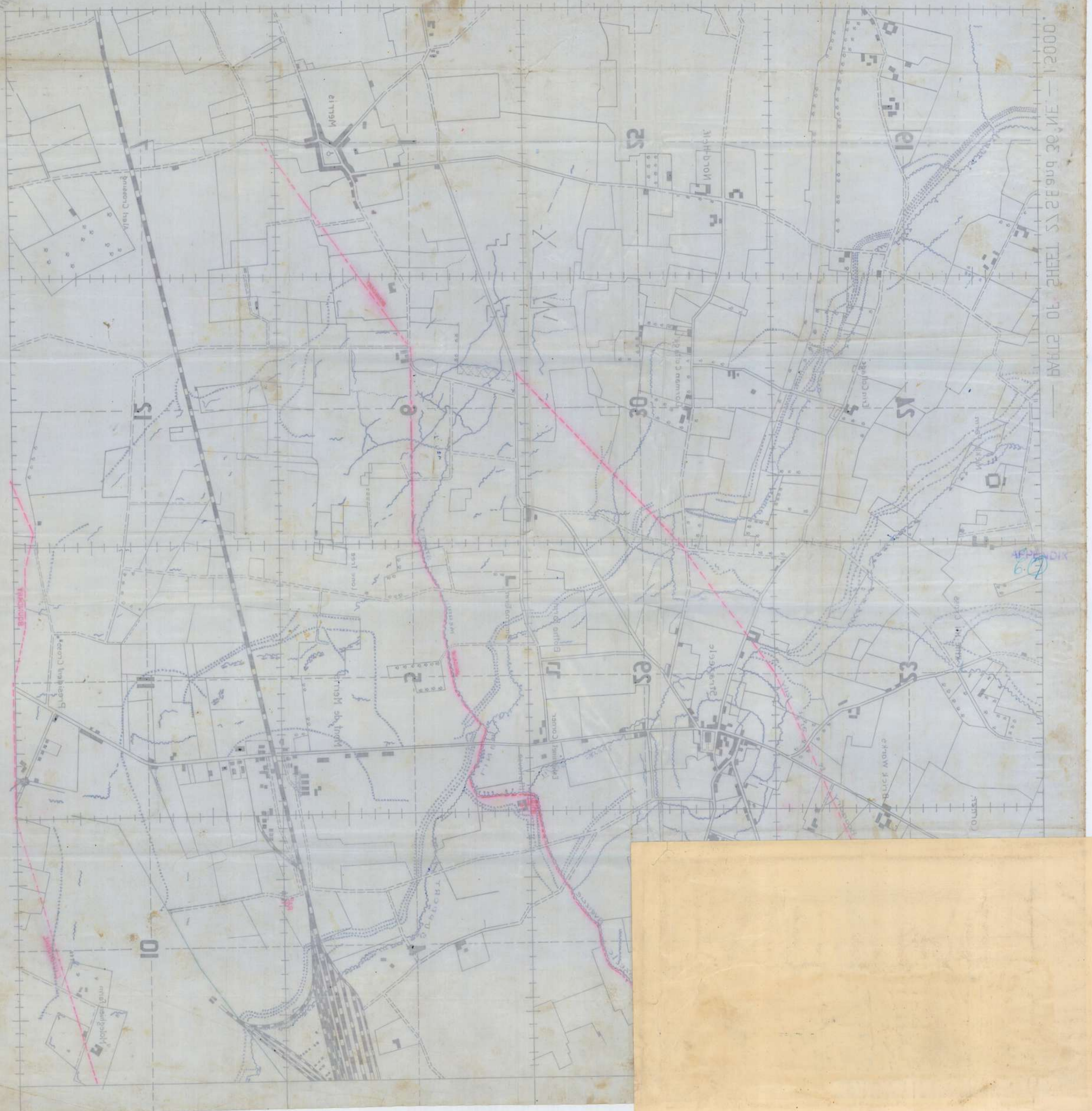
DEFENCES IN RIGHT BRIGADE

1st Field Combrk V.E. July 1918
2NB - SECTOR

Scale 1:50,000







— 12000 —