

AWM4

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

Signals

Item number: 22/1/18

Title: Assistant Director Signals, 1st
ANZAC Corps and Assistant Director
Signals, Australian Corps

October 1917



AWM4-22/1/18

WAR DIARY

or

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Month ended 31st October,
1917.

Army Form C. 2118.

A.D.Signals, I Anzac Corps.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
HOOGRAAF	1st Oct; 1917.		<p>4th Australian Division handed over to 2nd Australian Division at 10 a.m. Former opened at Steenvoorde same time.</p> <p>5th Australian Division handed over to 1st Australian Division at 10 a.m. Former opened at Scottish Lines (G.23.a.7.7) Sheet 27, at same time.</p> <p>Buried Cable route ID - JT through; 19 pairs working. ID - WK route very much improved by cutting out faults caused by shell fire.</p> <p>2nd Lieut. F. Morrow with AR Cable Section - 15 other ranks - reported and were sent on to Belgian Chateau.</p> <p>2nd Lieut. A. McLeod joined 1st Anzac Heavy Artillery Section to-day.</p> <p>Persomel and apparatus for 1 contact aeroplane wireless patrol station reported to II Anzac Corps from 1st Anzac to-day.</p> <p>Artillery Headquarters detachment and 1 Cable section of 4th Australian Divisional Signal Company under an officer left in line with 4th Australian Divisional Artillery at the disposal of the 2nd Australian Division.</p> <p>Code Names of the 111th Heavy Battery changed owing to its similarity to that of the 118th Heavy Battery.</p> <p>Buried Cable route HI - ZB completed to-day, 14 pairs.</p> <p>R.F.C. Wireless Sets and operators withdrawn from line and resting at Headquarters Wireless Section.</p> <p>Buried cable route of 42 pairs from GP to AL dug to-day.</p>	
	2/10/17.		<p>Headquarters 1st Australian Division moved from H.27.b.7.7 to Advanced Headquarters I.14.b.2.9. (Lille Gate, Ypres) at 4 p.m.</p> <p>Headquarters 2nd Australian Division moved to Advanced Headquarters at Ramparts 4 p.m.</p> <p>Poled cable route from ZB to Y commenced to-day.</p> <p>Some confusion was caused by the time of the moves of the 1st and 2nd Australian Divisions being altered from 10 a.m. to 4 p.m. after the orders had been given to make the necessary changes, but lines were restored, and all communications to forward Headquarters were through within 5 minutes of the units arriving at their destinations.</p>	App. I.

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HOOGRAAF	2/10 1917.		7 pairs through and working on the buried route from WK to AL, and an alternating route of 42 pairs is being laid. Buried cable route of 42 pairs from AL to TK and AZ - AW of 28 pairs dug to-day.	
	3/10 1917.		A return of Wireless and Earth Induction Sets in the Area to-date is attached. Signal Instructions No.2 (Series 3) were issued; copy attached. Instructions No.2 for the maintenance of the large enlarged buried system were issued. Copy attached with a colored tracing. O.C. Signal Company, 4th Austn. ^{Division} asks that arrangements may be made for the training of Pigeon men. Matter referred to D.D.Signals, 2nd Army, for courses to be arranged at 2nd Army Signal School. The 4th Battn. New Zealand Rifle Brigade, who have been employed on digging work in connection with the buried cable system left the forward area to-day on completion of the work. A letter of appreciation of the excellent work done by the 1st, 3rd and 4th Battns. in this connection was forwarded to the Corps Commander. Copy attached.	App. 2. " 3. " 4.
	4/10 1917.	3.30 p.m.	Lines were reported by 2nd Aust. Divn. to be through to the Left Brigade Forward Station at MOULIN FARM by 12.15 p.m. and visual fair on that sector. Right Brigade forward station visual working well. O.C. Signals, 2nd Aust. Division reports - "Amplifier Station with Left Forward Brigade Station went up about 10 a.m. 7 of the carrying party were either killed or wounded and the two operators came back. Corporal Long of the Divisional Wireless Section collected these two men, took them forward again, collected the equipment which was scattered about and took the party over to Right Bde. Forward Station to establish same. 'The whole amplifier station sent up to Right Bde. Forward Stn., carriers, operators, and equipment has appeared disappeared and no trace can be found. A new outfit has been collected at Advanced Div. H.Q. and sent up to Left Bde. Fwd. Stn." 2nd Lieut. G.S.Sharp and 2nd Lieut. V.J.Lewis reported to 4th Australian Division Signals for duty and were taken on the strength as supernumerary to establishment on 3rd October, 1917.	App. 5.

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HOOGRAAF	4/10 1917.	5.10 p.m. 5.15 p.m.	<p>Amplifier and Power Buzzer working was established from Sans Souci to ^{de}Knoet Farm.</p> <p>Buried cable route from Y to RB broken near the Moat, YPRES, by shell fire. Repair party sent out at once and temporary repairs made. Fortunately the emergency post poled cable route to ZB, connected with new bury ZB - HH, was completed last night, and by this means all the important circuits were restored quickly.</p> <p>2nd Lieut. R.H.McNicol reported for duty with 1st Aust. Div. to-day.</p> <p>Contact Aeroplane dropping station which had been selected for Advanced Right and Left Divisional Headquarters at I.14.c.6.9. was reported by R.F.C. to be unsuitable as messages fell into shell holes and moat, and could not be recovered.</p> <p>As result of a conversation with the O.C. 4th Squadron R.F.C. about 12.30 p.m., it was decided to discontinue the use of this station and for all messages to be dropped at Corps Headquarters and telegraph from there to Divisional Headquarters.</p> <p>A draft letter was written to the Corps Staff with reference to an increase in personnel for the Heavy Artillery Signal Section, at the request of the Corps Commander, a copy of which is attached.</p> <p>With the exception of the breakdown of the route Y - RB, the buried cables stood well during the action to-day and gave no further trouble.</p> <p>2nd Lieut. Summers, wireless officer, reported to 3rd Australian Division Signal Company for duty to-day.</p>	App. 6.
	5/10 1917.		<p>Buried Cable route of 28 pairs AW - RF dug to-day.</p> <p>Corps Wireless Officer reports - 4818 Sapper H.T.J.KITTO evacuated to hospital sick.</p> <p>Corpl. LENSSENS to 1st Aust. Div. as Interpreter Operator and a/Cpl BROWN and Sapper VAVAJENSKY to 2nd Aust. Divn. as interpreter operator to-day temporarily.</p> <p>2nd Lieut. F. Morrow with AR Cable Section left for 14th Corps to-day.</p> <p>Notification received to-day that the Corps Commander has awarded the Military Medal to 16650 Sergt. H. Hammond - AA Cable Section. 75800 Cpl. J.C.Saunderson and 27135 Sapper A.E.Gumm - AT Cable Section. 44949 Cpl. J.J.Hodgson, 558018 Sapper H.P.Furzer and 74899 Sapper E.V.Cooke of 7th Divisional Signal Coy.</p>	

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HOOGRAAF	5/10 1917.		Notification that Summer time will cease on night 6/7 Oct. at 1 a.m., and all concerned notified. Code times M to MLX will be duplicated when the clock is put back at 1 am, the letters "ST" being signalled after the codes of the first hour. Authority D.D.Signals, 5-10-17.	App. 7.
"	6/10 1917.		Capt. W.S.Rollo, R.E. of 'Y' Corps Signal Company, who has been attached to I Anzac Corps for some time as Officer i/c new buried system, left to-day to assume command of the 66th Div. Signal Company temporarily. Authority; D.D.Sigs. wire CF.105 of 5/10/17. 2nd Lieut. J.R.J.BURROWS reported to 1st Aust. Div. Signal Co. for duty to-day. Summer time ceased at 12 midnight 6/7 October. Codes from M to MLX repeated with the addition of the letters 'ST' after the first hour. Urgent messages were received to-day from 1st Aust. Division to say that faults were occurring on the lines "since the Corps working party commenced work". These were later cancelled, as apparently the faults were found not to be due to the operations of the working party. 9 Other Ranks of No.16 area party reported from 2nd Army for work in this area. 2nd Lieut. T.V.SMITH reported to 3rd Aust. Div. Sig. Coy. for duty.	
"	7/10 1917.		2nd Lieut. P.F.GARNER reported here for duty from 2nd Army and posted to ID vice 2nd Lieut. CHUBB. 2nd Lieut. E.C.OVERTON reported here for duty from 2nd Army and posted to HO as O.C.16 Area Detachment. These officers arrived here too late to proceed at night, and were given accomodation and forwarded to destination on 8th October. No.152092 Pioneer L. REID of "N" Cable Section awarded the Military Medal by the Army Commander. Buried Cable/route of 42 pairs from TK to RF dug to-day.	App. 7a.
	8/10		1st Australian Division Signals report their Brigade Forward Station amplifier picking up enemy code signals sent on a Power Buzzer. All units were warned to take special precautions to prevent leakage of information. Interpreter operators from Corps Wireless Section had been previously attached to amplifiers with Bde. Forward Stations. No messages could be distinguished or signals of any value.	

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HOOGRAAF	8/10 1917		Special Instructions for Maintenance of lines from 6 p.m. 8th October. to 5 p.m. 9th October were issued to day by O.C. "K" Corps Signal Company. Copy attached. Buried cable route of 44 pairs from RF to KF dug to-day. Lieut. L.W.FRASER evacuated wounded from 2nd Aust. Div. Signal Co. to-day.	App. 8.
	9/10 1917		Signal Instructions No.1 (Series 5) for next operations prepared and sent out to all concerned. Copy attached with map. Arrangements made for continuing the buried cable system from TK to KF and MF, also from AW to RF and CR. During the operations to-day buried routes held up satisfactorily, and there was no particular incident as regards communications.	App. 9.
	10/10 1917		Lieut. CHUBB proceeded to 2nd Army Signal School to-day. Buried cable route of 28 pairs from RF to CR dug-to-day. Maintenance Instructions for buried cable system have been somewhat revised and issued as Maintenance Instructions No.4; copies sent to all concerned. Copy attached.	App. 10
	11/10 1917		4th Australian Division opened at the Ramparts at 10 a.m. to-day. Lieut. T.J.PARKER of 4th Australian Divisional Signal Company killed in action to-day. Return of all Wireless and Earth Induction Sets in the area for week ending 9th October, 1917, attached.	App.11. App.12.
	12/10 1917.		The following Other Ranks arrived from Signal Depot as Wireless reinforcements and were attached to Headquarters Wireless Section :- 3652 L/Cpl. ACKWORTH A.V., 2922 Pte.PEARCE,L.W., 4439 Pte. HARVEY, N.K. No.6513 Sapper HAUSER, F.B. returned after re-enlistment leave. No.3520 " BOYCE, E. arrived and posted to 5th Aust. Div. pending transfer. 2nd Lieut. BEAVER, W.A.A. with 'OO' Cable Section left to-day for XIV Corps. Wireless Station at BX - Birr Cross Roads - withdrawn to-day.	

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HOOGRAAF	12/10 1917.		<p>Orders received from Corps Headquarters that the synchronization of watches by means of a "Time Officer" ceases as from 6 p.m. to-day, and Time Signal will be sent by wire as from 13th October, at noon daily.</p> <p>5th Australian Division opened at YPRES to-day.</p> <p>HO - HH Cable route cut by shell fire in several places, all wires except 3 pairs 'dis'.</p> <p>BX Test point. - Water flooding box owing to heavy and continuous rain.</p> <p>Communications during operations on this day worked as shewn in report from O.C. 4th Aust. Div. Signal Coy., attached as Appendix 13 (see below).</p>	
	13/10 1917.		<p>Repairs of HO - HH route in hand, but great difficulty owing to the state of the ground and number of shell holes on the route.</p> <p>A report received from 4th Australian Division Signals upon their communications during the operations of the 11th to 13th October is attached.</p> <p>Unable to keep pace with flow of water in BX Box with hand pumps, 2nd Australian Tunnelling Company called in to assist by provision of large pumps, but no progress made owing to lack of drainage and ceaseless rain. Decided to fix two culverts across main road to allow water pumped out and box and accumulated water to drain away. No work done to-day towards getting the culverts in. Four large pumps ready for work when drainage arranged.</p>	App.13.
	14/10 1917.		<p>Lieut. F.J.TUCKETT of 3rd Australian Divisional Signals killed last night.</p> <p>New buried cable route of 28 pairs completed by 5th Australian Division Signals.</p> <p>Buried Cable routes AZ - PG and PG - WK damaged extensively by shell fire, so much so that it is found to be beyond repair and abandoned.</p> <p>Very little progress made by C.E's men with culverts at BX, preventing any work being done to clear the water out of dug-out which is now flooded to the roof.</p> <p>Parties under 2nd Lieut. Overton, HO Sub-area Officer, and 2nd Lieut. McMurray made a careful investigation of the HO - HH route and find that it is impossible to do anything to the route for two sections on the HH side of HO, as it is too badly damaged. To restore the route it will therefore be necessary to re-dig these two sections. Reported accordingly to G.S., 1st ANZAC, and ask for the necessary labour to re-dig these two sections. Copy attached. B.G.G.S. informs me verbally that it is impossible to provide labour at present, and that if we can carry on communications it will be better to let the work stand over for the present until things quieten down and till a party of sufficient strength to do the work in two digs can be made available.</p>	App.13a.

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HOOGRAAF.	14/10 1917.		It was therefore decided to fit 2 test boxes at the ends of the broken section to bring the wires from HH and HO respectively on to terminal boards in these boxes and number them out. Divisions concerned and Heavy Artillery Signals informed of what was to be done and advised that they can if necessary run overland cables between these boxes, but that the difficulty in maintaining any such cables is likely to be great.	
	15/10 1917.		A party of 12 other ranks from 1st Australian Division arrived at Kruistraat for area work in connection with buried routes. Lieut. J. SMITH of 2nd Australian Divisional Signal Co. wounded to-day. Some progress made with work on Culverts across road at BX. No pumping yet possible.	
	16/10 1917.		New buried cable route RF to CR of 28 pairs completed by 5th Australian Divisional Signals. A new 3 kilo watt Lister Set (No.18043) received to-day from Second Army and taken to Corps Wireless Section Headquarters. The present set to be returned to the Army when new one brought into use. BX Test point - Culverts not yet completed across road. The dug-out at EN.3 in which the Wireless Directing Station is established, having become very damp, it has been decided to erect a station specially for this purpose at H.21.d.4.7, consisting of small "Elephant" shelter covered with sandbags for the apparatus room, and an 80 ft. collapsible mast. The building of the Hut commenced to-day.	
	17/10 1917.		Weekly return of Wireless and Earth Induction sets attached. Two horse drawn Pigeon Lofts - Nos. 62 and 63 - sent from Second Army to day to EN.1. Cpl. J. HILTON and Cpl. E.E.Sanders in charge respectively. Lieut. S.F.M.HUMBERT of W.18 Motor Airline Section left for 10 days leave. Very little progress made with culverts across road at BX.	App.14.

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HOOGRAAF	18/10 1917.		Arrangements made to build a 40-wire open line from DH to I.16.a.8.9, thence 12 wires to 'Y' Box. Poles also to be erected from I.16.a.8.9 to BX for wiring at a later date. Lieut. C.H.SIMPSON of 3rd Aust. Div. Signals wounded to-day. Culverts across road at BX nearly completed. Hope to commence pumping to-morrow.	
	19/10 1917.		Signal Instructions No.1 (Series 6) with Corps Wireless Scheme as an addendum issued to-day. Copy attached. Culverts across road at BX completed and large pumps, electrical and mechanical, at work all day and night. It was found that the damage to the HH - HO route was practically continuous from HO to the point where it was proposed to place the temporary test-box, and consequently it was decided to only fix one new test box instead of two - at the HH end of the break - and to fix additional terminal strips in HO box on to which ground cables laid by Divisions and Heavy Artillery Signals might be led.	App.15.
	20/10 1917.		Lieut. Coryn and party arrived from 2nd Army Signal Coy. to-day for the purpose of clearing up poled cables in the Dickebusch and Halifax areas. 2nd Lieut. OVERTON with No.16 area detachment was to-day transferred to "X" Corps under authority D.D.Signals 8229 of 20/10/17. A report on the work done by Wireless and Power Buzzer detachments for the week ending 18th October is attached. Water all pumped out of BX and fires started to dry the box.	App.15a. App.16.
	21/10 1917.		All wires in BX Box have been cleared, tested, and joined through as a temporary measure off the test board. When sufficiently dry new terminal strips will be fitted and the wires restored. Lieut. H.J.A. FERGUSON of 1st Aust. Div. Signals killed to-day. Horse drawn Pigeon Lofts Nos. 62 and 63, belonging to the Second Army, moved to-day to J.15.a.1.3 (Sheet 28). A copy of the weekly Pigeon Report is attached.	App. 17.

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HOOGRAAF.	21/10 1917.		Survey completed to-day for new 40-wire route DH - Y. Orders received to-day from I Anzac "G" that synchronization of watches will again to-day be undertaken by the Staff.	
	22/10 1917.		Drying out of BX Box proceeding satisfactorily. Wires working well. Maintenance party moved from D Box to EN.3, and maintenance of buried route E to D taken over by X Corps on and from to-morrow. Linemen of 'P' Cable Section left behind until X Corps take over. Buried cable route TK - RF blown out by shellfire. Maintenance party got out and restored sufficient wires to maintain communication by night. Work on new 40-wire route progressing well. Work being carried out by No.2 Telegraph Construction Company. O.C. 4th Australian Divisional Signal Company reports dug-out for cablehead at MF completed to-day.	App. 18
	23/10 1917.		Good progress made on new 40 wire route DH - Y. All poles erected and some wiring done. Leading in completed at DH. Revised Instructions for Maintenance of the buried cable system and open routes forward from EN.1, sent out to-day. Copy with plan attached. Trench wireless set installed at RF to-day. The erection of the 80 ft. mast for the new Wireless Directing Station was commenced to-day.	App. 19.
	24/10 1917.		1st Australian Division office opened at YPRES Ramparts at 10 a.m. 4th Australian Division office opened at Scottish Lines (G.23.a.9.6) at 10 a.m. 40-wire open route from DH to I.16.a.8.9, and 12-wire route thence to 'Y' Box completed to-day so far as outside work is concerned. Leading in at Y being completely overhauled and new test frame fitted. The erection and staying of the mast at the new Wireless Station was completed to-day. The construction of the hut is practically completed and fitting up of the station commenced.	

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HOOGRAAF.	25/10 1917.		<p>DH - Y route led in and handed over at noon.</p> <p>Return of Wireless and Earth Induction Sets for week ended 22/10/17 attached.</p> <p>No.2 Signal Construction Company commenced building a new 64 wire route from AUO to JP Test pole Busseboom, to replace two existing lines between these points which are in need of replacement.</p> <p>New 40-wire line from AUO to BF Pole (L.17.b.2.1) and railway pole (G.25.d.8.9) completed, replacing existing lines in bad condition.</p> <p>X Corps route from SW - HO cut. Several lines of this Corps in that cable stopped in consequence.</p> <p>Box car from 2nd Army Signal Company which was supplied for the use of the officer in charge of buried cable routes withdrawn to-day and sent to Canadian Corps Signal Company.</p>	App.20.
	26/10 1917.		<p>During the day a fault developed on the ID - JT route, 12 pairs being faulty. Sufficient good spares remain to enable all working circuits to be got through whilst the working party is locating and clearing faults.</p> <p>4th Australian Division opened at BOMY at 12 noon to-day.</p> <p>Faults on ID - JT cleared during the day.</p> <p>HO - CJ route entirely 'dis' by shell fire at 7 p.m. Owing to heavy rain the ground is flooded and it is impossible to do anything to clear the faults.</p> <p>The new test strips and leading in at BX is completed.</p> <p>Heavy enemy bombing during the week has caused many faults on the Heavy Artillery lines. The H Cable route was replaced by an open route during the week. The route from C to the Canal was blown down by shell fire last night, also the new DH - Y route.</p> <p>5th Australian Division amplifier relay station at J.4.b.1.5. removed as not being required.</p> <p>A bomb dropped near No.63 Pigeon Loft last night - situated at I.15.a.1.2 - caused considerable damage to the woodwork of the loft. One bird was killed, or died from shock, and one was blinded and had to be killed. None of the men were hit as they took cover in the dug-out.</p> <p>Lieut. CORYN and party left to-day having completed the work for which they were sent.</p> <p>The new Wireless Directing Station at H.21.d.4.7 was completed and opened to-day.</p> <p>Major R.G.HAMILTON^{M.C.} reported to the 3rd Australian Divisional Signal Company to take over the command on promotion from the 5th Australian Divisional Signal Company, vice Major T.C.WILSON seconded to Training Centre, ENGLAND.</p>	

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HOOGRAAF	27/10 1917.		<p>'P' and 'AA' Sections to go to Second Army; 'BN' and 'F' Sections to relieve them</p> <p>'P' Cable Section moved out and was relieved by "F" Section to-day.</p> <p>Following transfers of officers notified by D.D.Signals wire CF.1044 to-day.</p> <p>2nd Lieut. A.C.HARE to command 'AA' Cable Section.</p> <p>2nd Lieut. Cyril HEDDERWICK to command 'P' Section vice Lieut. J.F.SMITH sick.</p> <p>2nd Lieut. P.F.GARNER to command "F" Section.</p> <p>Arrangements for moves embodying these changes sent out. Copy attached.</p>	App.21. App.22.
	28/10 1917.		<p>Weekly Carrier Pigeon report sent in. Copy attached.</p> <p>Contact aeroplane wireless receiving set installed at the Ramparts this morning.</p> <p>In accordance with instructions from Second Army, 4 R.F.C. operators sent for manning two Contact Aeroplane wireless Receiving Stations, already in position, during operations of the 30th. The B.G.G.S. was consulted and it was decided to utilise only one of these sets and to place it at the Headquarters of the Left Division at the Ramparts.</p>	App.23.
	29/10 1917.		<p>Buried cable route of 25 pairs JT - SS dug to-day.</p> <p>Lieut. E.A.EDWARDS left to-day for tendays leave commencing 30th October.</p> <p>2nd Lieut. R. MCMURRAY from No.37 Area Detachment at EN.1 arrived at Headquarters to take charge of buried cable maintenance during the absence of Lieut. Edwards.</p> <p>JT - AZ Buried Cable route damaged by shellfire. Efforts made by 1st Australian Divisional Signals to locate and repair the damage, but owing to heavy shell fire, causing 10 casualties to working parties party, the work was not proceeded with. 32 pairs were made good - 29 working and 3 spares.</p> <p>Lieut. Comport of D Sub-area instructed to give any assistance possible in order to get this route repaired when conditions permit.</p> <p>Contact Aeroplane Wireless Receiving Set installed at Ramparts this morning.</p>	

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A.D.Signals, I ANZAC.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
HOOGRAAF.	30/10 1917.		<p>Weekly return of Wireless and Earth Induction sets for w.e. 29-10-17 attached.</p> <p>Lieut. Comport reports unable to do anything further at present towards repairing the JT - AZ route owing to the heavy shelling which still continues.</p> <p>Captain Williams, No.2 Signal Construction Company, who has been revising the leading in arrange ments at Y Box and fitting on Test Boxes and cables there, reports that damage has been done caused to the armoured and other cables running along the inside face of the wall at Ramparts, between the Sally Port and Y Box, owing to several stove-pipes having been fitted against the wall from shelters being constructed at the foot of it. He suspects much of the trouble on the C - Y buried cable is due to the insulation of the cables having been melted and destroyed by this means. Report to Staff and ask that steps be taken to stop this practice. Letter attached.</p> <p>Arranged with Captain Williams for the leading in cables to be cut and tested and if found faulty to be replaced by new cables run along the bank at the top of the wall. Following arrangements made for leading in at Y Box. 28 pair cables run from a separate terminal board in Y Box to the Left Divisional office and 4 seven-pair cables suspended on poles to be run from Y Box to Right Divisional Office at Lille Gate.</p> <p>This should provide all the circuits required by Divisions in front of Y Box and enable the existing untidy cables to be cleared away. In addition a 30-pair strip to be fitted outside Y Box and connected to the terminal board there so that miscellaneous units requiring communications to and from Y Box can bring their cables and fix them to this board, and not bring them inside Y Box.</p> <p>Buried cable route of 25 pairs from SS to LR dug to-day.</p> <p>Party of one N.C.O. and 24 men from Infantry Battalions of the 5th Australian Division reported at Second Army Signal School, ZUYTPEENE, for training as Pigeoneers. The course will last three working days and will be followed by other courses as required.</p>	<p>App.24.</p> <p>App.25.</p>

WAR DIARY

Army Form C. 2118. 13

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.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

A.D.Signals, I ANZAC.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
HOOGRAAF	31/10 1917.		<p>A.D.Signals Order No.9 re changes of Cable Sections attached.</p> <p>O.C. Signals, 2nd Australian Division, who has been reconnoitring WK - PG and AZ - PG routes with a view to getting them restored reports definitely that it is impossible to repair or make use of any parts of the existing routes as they have been too badly destroyed. If they are required it will be necessary to re-construct them completely. O.C. 2nd Division Signals instructed not to take any steps towards re-digging these routes at present until plans for the winter are more definite, and until the Corps on our right have got their buried routes definitely planned.</p> <p>A report is attached giving a brief summary of the state of the Wireless, Amplifier, and Power Buzzer Communications on the 1st Anzac Corps front.</p>	<p>App. 26.</p> <p>App.27.</p>

R. G. S. G. W. L.
LIEUT. COL. R.A.
A.D. SIGNALS,
1 ANZAC CORPS

SECRET.

Have been

A. D. SIGNALS,
<i>1st Anzac</i> CORPS.
No. <i>T.S. 180/13.</i>
Date.....

First ANZAC Corps.

1st October 1917.

CODE NAMES.

1. The following amendment to Code Names of First ANZAC Corps Heavy Artillery (issued 14-9-17) will be taken into use forthwith :-

111th Heavy Battery

For "HANTON"

Read "HAVOC"

2. ACKNOWLEDGE.

Ch. J. J. J. *Limit Col*
 Brigadier-General,
 General Staff,
 First ANZAC Corps.

DISTRIBUTION.

<u>Copy No.</u>	<u>To.</u>
1 & 2	Second Army
3 - 100	B. G. H. A.
101 - 115	1st Australian Division.
116 - 130	2nd Australian Division.
131 - 145	4th Australian Division.
146 - 160	5th Australian Division.
161 - 165	Second ANZAC Corps.
166 - 167	X Corps.
168 - 177	G. O. C. R. A.
178 - 179	A. D. Signals.
180 - 210	Retained.

①

CONSOLIDATED RETURN.
Australian Divisional Signal Company.

Return of all Wireless and Earth Induction Sets.

Mondays.

To be rendered IN DUPLICATE to A.D. Signals, I. Anzac Corps, weekly (up to and including ~~Sundays~~).

Formation.	No. of Map.	Map square.	Type of set.	Wave length.	Call.
<u>WIRELESS.</u>					
H.Q. Stn	28	G.35b2.8.	Press		
Directing Stn.	28	H.22c5.9.	Wilson	550	DL, CA', CP.
Adv. Dtng. Stn.	28	I.14b1.8.	"	"	NR, PK, MH.
Reserve Brigade					
H.Q. 1st Div.	28	I.17c4.8.	T.S.	"	ZR', PM, ZB'.
Bde. H.Q. 1st Div.	28	J.7d8.8.	"	"	MP, CF, CML.
Reserve Bde. H.Q.					
2nd Div.	28	I.17b2.8.	"	"	DI, ZW, DV.
Bde. H.Q. 2nd Div.	28	J.2a1.8.	"	"	ML, CY, CK.
<u>AMPLIFIERS.</u>					
Bde.H.Q. 1st Div.	28	J.7d8.8.	Amp. & P.B.	-	MAJ.
Relay	28	J.3c3.9.	"	-	CBI.
Cable Head	28	J.3b	"	-	GBD.
Bde.H.Q. 2nd Div.	28	J.2a1.8.	"	-	MSM.
Relay	28	D.26c.cont.	"	-	CTT.
Cable Head.	28	D.27b9.0.	"	-	MSJ.

Date 3-10-17

(Sd.) R. W. R. M. S. O. C.

2nd F.S. Co., R.E.-2399-500-6-8-17

O.C. Divisional Signal Co.

Books Wireless off

W. B. D. 1

2

SECRET.

Copy No. 23.

First ANZAC Corps,

3rd October, 1917.

SIGNAL INSTRUCTIONS No.2 (Series No.3).

COMMUNICATIONS - GENERAL SCHEME - Part "B". Battle.

(Reference I Anzac Corps Order No.183 of 2nd October).

1. LINES.

(i) Reference Signal Instructions No.1 (Series No.3) of 30th September, paragraph 1 (ii)(c). The spur therein referred to will consist of 24 pairs and run from AZ test point instead of from GP test point to Right Division Cable Head.

(ii) Cable Heads have been selected as under

Right Division ... J.3.d.3.8., to serve both Brigades (AW).

Left Division, vicinity of TOKIO about D.27.d.8.7., to serve both Brigades (TK).

(iii) As in Signal Instructions No.2 (Series 2) of 24th September, paragraph (v).

(iv) From each Division Cable Head, two pairs (one for artillery and one for infantry) will be run forward to each Brigade Forward Station as laid down in S.S.148.

(v) Brigade Forward Stations have been selected as under -

Right Division - J.5.a.2.9., for Right and Left Brigades.

Left Division - Right Brigade ^DX.28.b.5.5.
Left Brigade D.22.d.5.5.

(vi) As soon as practicable after the capture of the final objective, Left Division will commence continuing the main buried route forward from TOKIO towards MOULIN FARM (D.22.d.cent.). This route to be carefully surveyed before construction and dug to 6 feet depth (minimum). 42 pairs of cables will be laid. Labour will be provided by 2nd Australian Division. Cable will be supplied by A.D.Signals on demand.

2. VISUAL.

Divisional Reading Stations will be established as under -

Right Division - WESTHOEK J.7.b.8.6.

Left Division - at Brigade H.Q's, {J.2.a.4.7.
D.26.c.1.3.
Also at Cable Head D.27.d.8.7.

/3...

- 2 -

3. WIRELESS.

(a) The Corps Wireless, Power Buzzer and Amplifier Scheme is issued as Appendix I. to these instructions.

(b) There will be no wireless Tank for these operations.

(c) One Contact Aeroplane Wireless Station will be established at the Reserve Brigade Headquarters of each attacking Division (I Anzac Corps G.S. letter 140/35 of 30th September refers).

4. PIGEONS.5. GENERAL

} As laid down in paras. 4 and 5 Signal Instructions
No.4 of 17th September.

6. CONTACT AEROPLANES.

As laid down in paragraph 6, Signal Instructions No.2 (Series No.2) of 24th September.

7. ACKNOWLEDGE.

Alan Powell

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

<u>Distribution.</u>	<u>Copy No.</u>
O.C. 1st Aust. Div. Sig. Co.	1.
O.C. 2nd Austr Div. Sig. Co.	2.
O.C. 4th Aust. Div. Sig. Co.	3.
O.C. 5th Aust. Div. Sig. Co.	4.
O.C. "K" Corps Signal Coy.	5.
O. i/c Signals, Corps H.A.	6.
Corps Wireless Officer.	7.
Area Signal Officer.	8.
A.D.Signals, II Anzac Corps.	9.
A.D.Signals, X Corps.	10.
D.D. Signals, Second Army.	11.
I Anzac G.S.	12 to 19.
G.O.C., R.A.	20.
C.M.G.O.	21.
AQ.	22.
War Diary.	23.

④

S E C R E T.

=====

I ANZAC Corps.

3rd October, 1917.

APPENDIX I

to

SIGNAL INSTRUCTIONS No.2 (Series No.3).

Wireless and Power Buzzer Scheme.

All previous instructions are now cancelled and the following substituted : -

WIRELESS.

The Army Wireless Directing Station (operated by I Anzac Corps) is established near EN.1, connected by telephone to Corps Advanced Exchange (EN.1). The 'phone call for this station is "Army Wireless Station", and its wireless calls will be D L, C A', and C P. It will accept messages from forward stations if the Corps Directing Station cannot be raised; but it is not to be called otherwise.

The Corps Directing Station is established at the Ramparts (I.14.b.1.8), connected by 'phone to Right and Left Divisions. Its 'phone call will be "Corps Wireless Station" and its wireless calls N R, P K, or M H. All wireless stations in this Corps area will pay strict attention to the orders of Directing Station and conform to the wireless procedure closely.

*(J.7.d.
8.8.) In the Right Divisional Area a trench wireless set will be maintained at Reserve Brigade H.Q., Halfway House, calls Z R', P M and Z B. Another trench set will be installed at Right and Left Brigade H.Q., Westhoek calls M P, C F and C M L. Both these stations will be equipped and entirely controlled by Right Divisional Signal Company.

In the Left Divisional area a trench wireless set will be maintained at Birr X Roads, calls D I, Z W and D V. Another set will be installed in the vicinity of Right and Left Brigade H.Q., about J.2.a.1.8., with calls M L, C Y and C K. Both these stations will be equipped and entirely controlled by Left Division, but the Birr X Roads station will be manned by three operators lent by the Corps Wireless Section.

AMPLIFIER AND POWER BUZZER SCHEME.

Right Division. In the Right Divisional area the following combined amplifier and power buzzer stations will be installed previous to zero:-

No.1 Station	with wireless	at WESTHOEK...	Call M A J.
	R. & L. Bde. H.Q.		
No.2	"	Relay.	J.3.c.3.9 " C B I.
No.3	"	Cable Head	HELLES. " C B D.

/At...

- 2 -

At the latter position (Cable Head) two combined mobile amplifiers and power buzzers will be held in readiness to go forward to Right and Left Brigade Forward Stations respectively on positions being captured. It is advisable that they move forward with the "A" detachment of Brigade Forward party; but the exact time should be decided on by the senior Signal Officer on the spot. The call of the amplifier attached to Right Brigade Forward Party will be M U T, and that with the Left Brigade Forward Party M T P.

Left Division. In the Left Divisional Area the following combined amplifier and power buzzer stations will be established previous to Zero:-

No.1 Station	With wireless near	J.2.a.1.8	Call M S M.
	R. and L. Bde.H.Q.}		
No.2	" Relay (only if		
	necessary) about D.26.d.central...		
			Call C T T.
No.3	" Cable Head near	D.27.b.9.0	" M S J.

At the latter position (Cable Head) near TOKIO, two combined mobile amplifiers and power buzzers will be held in readiness to go forward, one to each Brigade Forward Station respectively. The call of the amplifier attached to the Right Brigade Forward Party will be C R O, and that of amplifier with Left Brigade Forward Party M G E. The same general instructions in regard to moving forward holds good as in the case of Right Division mobile amplifier stations.

ACCUMULATOR CHARGING ARRANGEMENTS.

The Corps forward charging station is established at the Ramparts where accumulators from both divisions will be accepted for charging and replacements issued. An N.C.O. of the Corps Wireless Section will be stationed there and a reserve store of accumulators, spare instruments and other stores will be held available for replacing damaged and destroyed equipment.

In the Right Divisional area charging circuits are available at Halfway House and Birr X Roads, and one man to attend to the charging will be stationed, if necessary, at one of these points. If preferred, however, all accumulators may be sent to the Corps Charging Station at Ramparts for charging.

In the Left Divisional area a charging circuit of 6 amperes off the lighting circuit at Railway Wood will be used to charge as many accumulators as possible in that sector. One man with knowledge of the work will be stationed at that point for the purpose. He will be detailed by Left Division. Any surplus accumulators may be sent to Ramparts for charging.

Carrying Parties.

Each Division will provide a carrying party of ten men under an N.C.O. to be stationed at Halfway House and Birr X Roads respectively, to attend to the carrying of accumulators between Bde. H.Q., Reserve Bde. H.Q., and Ramparts, where and when necessary. In addition, a party of 6 men per Brigade in the line will be detailed by Divisions to be available under the orders of Divisional Wireless Officers for the carrying of accumulators between Bde. H.Q. and forward amplifier stations.

/General...

- 3 -

GENERAL.

Officers in charge of Signal Stations will make it a point to see that the procedure laid down for Power Buzzers is strictly adhered to. It is absolutely necessary that the procedure should be uniform throughout the Corps Front.

Wireless, amplifier, and power buzzer stations attached to any Headquarters come directly under the charge of the Signal Officer of the unit. Any such station is to be regarded as part of his system of communication.

It is again necessary to point out that messages sent by Power Buzzer should be as brief as possible in order to obviate delay caused by enciphering. The use of the B.A.B. Trench Code should be more general. During last operations a seventy-five word message was handed in for transmission, which, had it been encoded, could have been condensed to a dozen groups of figures.

R. Powell

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

①

I ANZAC Corps,

2nd October, 1917.

I Anzac Corps Buried Cable Scheme.

Instructions for Maintenance No.2.

1. and 2. } AS in Instructions for Maintenance of September 14th.

3. Cable Section parties are allotted to sub-areas as follows :-

A (Red) Sub-area	...	AR Section	(Lt. Morrow).
B (Blue) "	"	AA "	(Lt. Smith).
C (Brown) "	"	J "	(Lt. Comport).
D (Green) "	"	AN "	(Lt. Spurr).
E (Purple) "	"	OO "	(Lt. Beaver).
F (Black) "	"	P "	(Lt. Chubb).

AT Section (Lt. Jackson) will be stationed at 'Y' Box as emergency breakdown section for use where required.

J Section may also be available to assist in repairs outside 'D' area.

OO Section at HOOGE will work conjointly under 10th and 1st Anzac Corps, Lt. Beaver acting as sub-area officer for both Corps.

4. AS in Instructions for Maintenance of 14th September.

5. Sub-area Signal Officers will work under the instructions of the Area Signal Officer, Lt. Edwards at EN.1. Lt. Helmsley will act as Assistant Area Officer; Lt. McMurray as Liaison Officer between Area Signal Officer and Sub-area Signal Officers.

6. and 7. } AS in Instructions for Maintenance of 14th September.

8. Sub-area Officers will keep a book of records, shewing the allotment and use of all lines in their sub-areas, and also shewing connections back and forward at either end of each section. Such books must be kept up to date and any changes notified to the Area Signal Officer. Sub-area Officers will be responsible that linemen at all manned test points know the allotment, use, and connections of all circuits emanating from their test point and keep a book record of the same. Also that linemen notify the Sub-area Officer concerned of any change made at their test points.

9. } AS
10. } in
11. } Maintenance
12. } Instructions
13. } of
14. } 14th September.
15. }

/16...

(2)

- Ann Fordell

A.D.SIGNALS, I ANZAC CORPS.

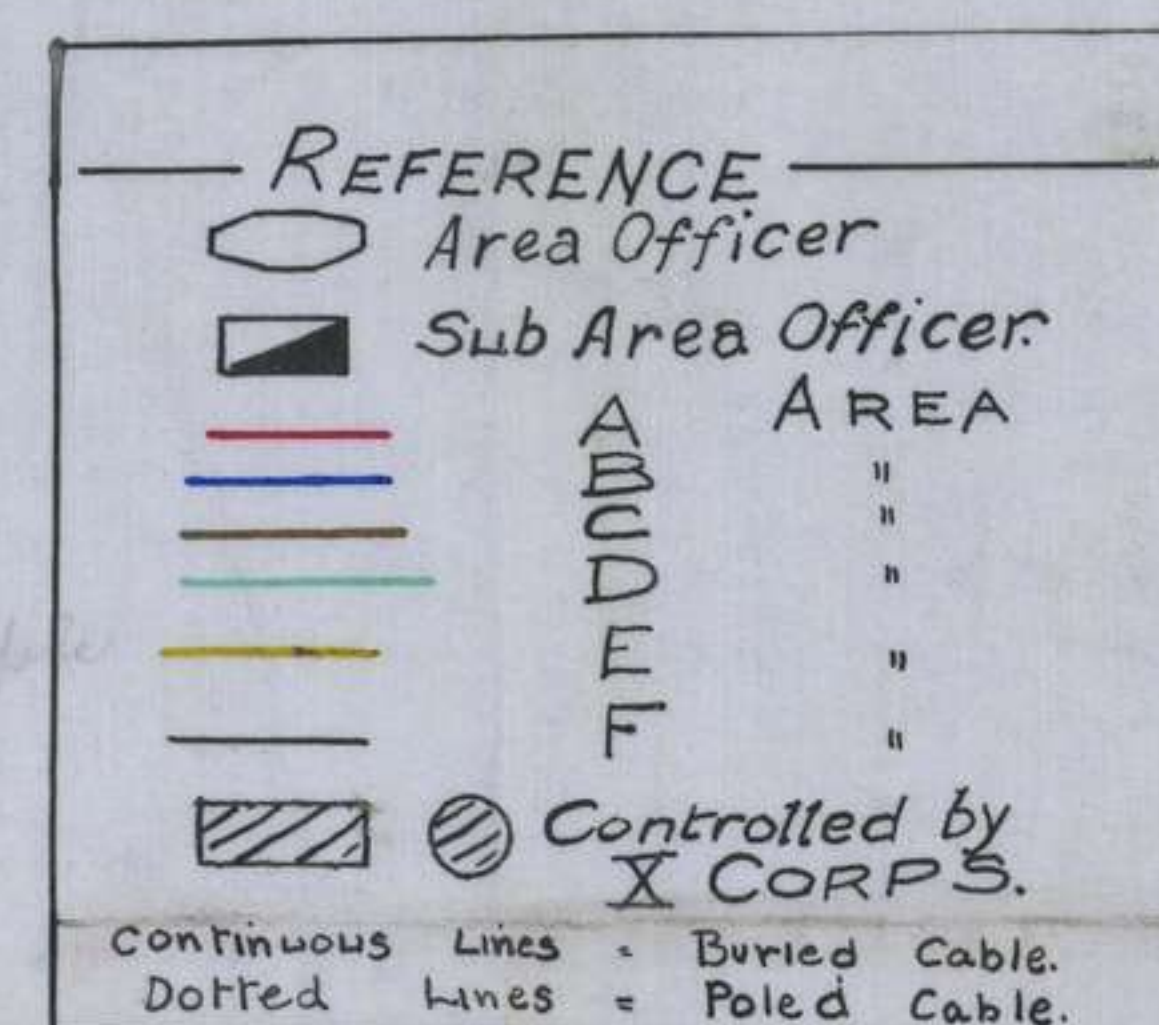
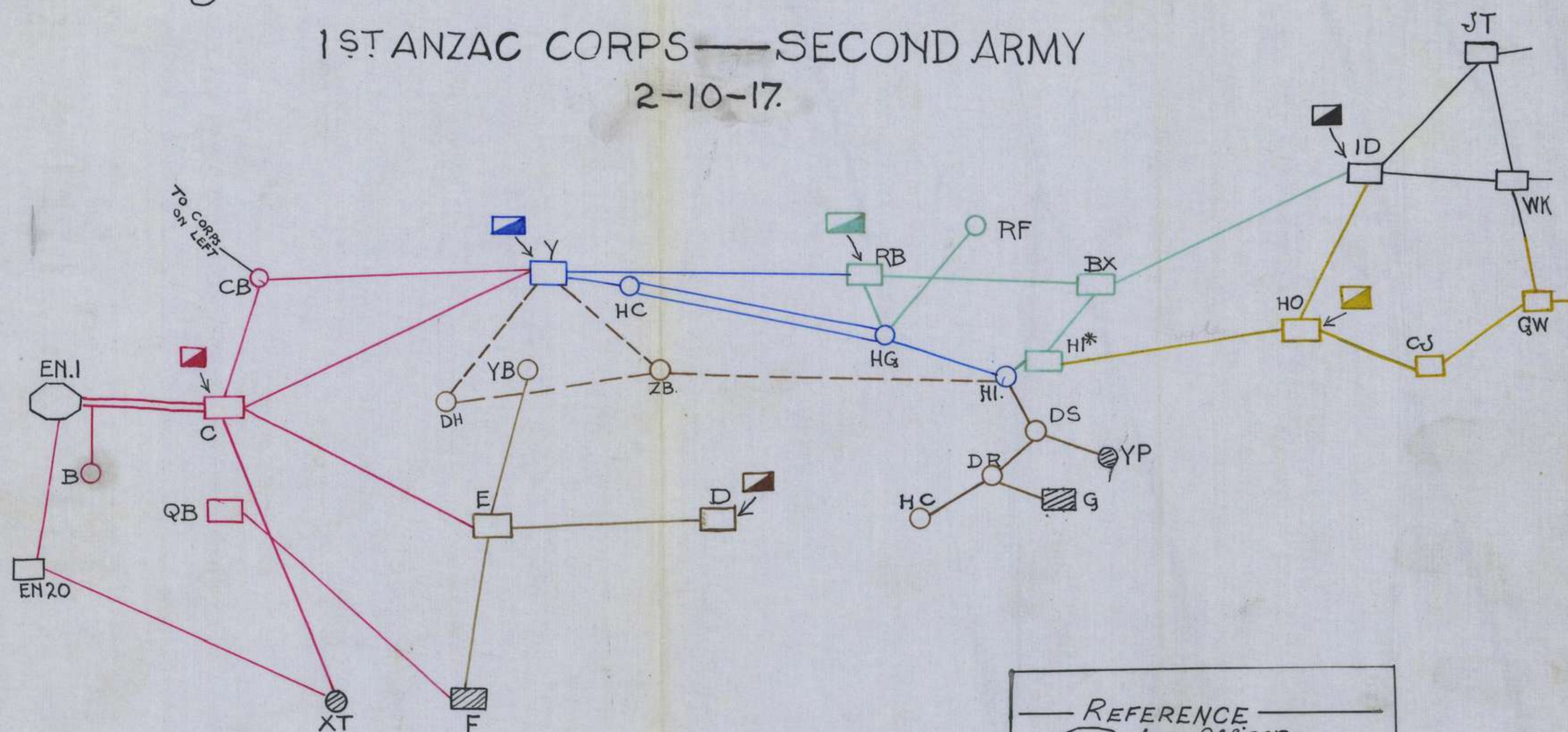
Copy No.

2

Organization for Maintenance of Buried Cables

1ST ANZAC CORPS — SECOND ARMY

2-10-17.



Ward

B.G.G.S.,


I ANZAC CORPS.

I should like to bring to the notice of the Corps Commander the splendid work accomplished by the 1st, 3rd, and 4th Battalions of the New Zealand Rifle Brigade during the time they have been employed in burying cables for this Corps.

The 1st and 3rd Battalions carried out the work for the operations of the 20th September; the 4th Battalion continued the work for the second and present operations.

All three battalions have had an exceptionally heavy task to perform, and have got through the digging at what must have constituted a record pace. The work has frequently had to be carried on under heavy shell fire, but the completion of each day's or night's task has never failed.

I am particularly indebted to the Commanding Officers and other officers of the battalions for the great personal interest they have taken in the work, especially as regards the preliminary reconnaissances of the routes to be dug. These officers have always surveyed the routes themselves in daylight in addition to going up with the working parties at night, and have thus given the greatest possible assistance to the Signal officers responsible for the construction of the routes.

/It... 

- 2 -

It is due also to the cheerful spirit in which the work has been undertaken that many difficulties have been overcome.

I much regret the casualties these Battalions have suffered during the time they have been working for this Corps.

R. H. Powell

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

October 4th,
1917.

(12)

~~It is due also to the cheerful~~

Edw. G. Page

First ANZAC Corps,
4th October, 1917.

Second Army.

I beg to bring to notice the necessity for an increase in the personnel of the Heavy Artillery Signal Section of a Corps Signal Company. Owing to the large number of Groups now with a Corps during operations, the Heavy Artillery communications have assumed very large proportions and are more than can be dealt with by the present strength of the Signal Section, viz - one officer and thirtysix other ranks. After deducting motor cyclists, drivers, etc., there are only twentyseven other ranks available for Signal Office and out-door construction work. The Signal Office with the Heavy Artillery of this Corps is at present probably larger than any Divisional Signal Office, and during operations the messages passing through the same average over one thousand per day. After providing for the manning of this office there are only one sergeant and nine men available for out-door work.

Even with such assistance as can be provided by the Corps Airline and Cable Sections this number of men is totally inadequate to carry out the necessary construction and maintenance work of Heavy Artillery lines.

Further, the Officer i/c Signals, Corps Heavy Artillery, requires a second Signal Officer to assist him, especially in superintending the outdoor work.

/It...

(W)

It is, therefore, recommended that the Heavy Artillery Signal Section be increased by the addition of an airline detachment under an officer, with a box-car and 3-ton lorry. The lorry would, in addition to being used for construction work, be available on a move to supplement the transport of the Section, which is totally insufficient at present.

The provision of the airline detachment asked for above would, it is considered, be far more useful than the replacement of the two existing limbered G.S. wagons by light cable wagons suggested in paragraph 2, G.H.Q. letter 13/10 (Q.A.3) of 19-3-17, especially as no provision for additional personnel to man these light cable wagons has been made.

4

Lieutenant-General,

Commanding I ANZAC Corps.

Draft Submitted to Staff.

(17)

app: 7

A.D. Signals,

I Anzac Corps.

Following from D. Signals :-

"Inform all Signal Offices your Army that summer time will cease on night 6th and 7th October. At 1.0 a.m. that night watches will be put back to midnight."

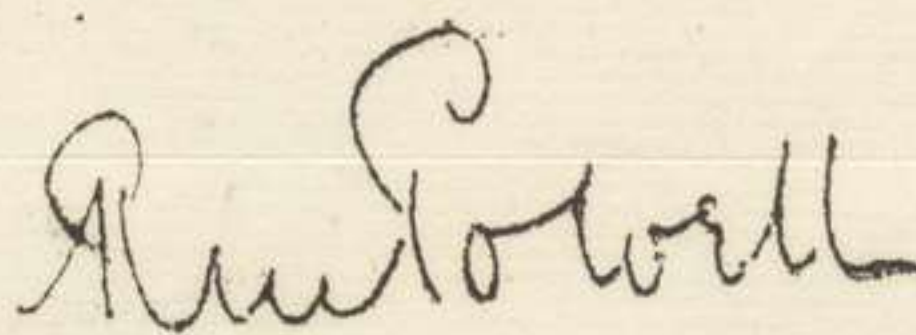
5/10/17.

(Sd.) A. HILDEBRAND,
Colonel, R.E.,
D.D. Signals, Second Army.

* * * * *

O.C. "K" Corps Signal Company. (12)
O.C. 1st Aust. Div. Signal Co.
O.C. 2nd Aust. Div. Signal Co..
O.C. 4th Aust. Div. Signal Co.
O.C. 5th Aust. Div. Signal Co.
Corps Wireless Officer.
Area Signal Officer.
Corps Pigeon N.C.O.
Signals, 2nd Brigade "Tanks".
I Anzac G.S. (for information).

Above for your information and
compliance, please.



Lieut. Col., R.A.,

A.D. SIGNALS, I ANZAC CORPS.

5th October,
1917.



SECRET.

Copy No. 18

I ANZAC CORPS BURIED CABLE SCHEME.

Instructions for Maintenance No.3.

1. Reference Instructions for Maintenance No.2, para.3, of 2nd October, the following redistribution of personnel will be carried out as soon as possible.
 - (a) Lieut. Edwards from Area Officer, EN.1, will become Officer i/c Corps Buries (construction and maintenance) and be located at Corps H.Q.
 - (b) 2/Lt. Helmsley will become Area Signal Officer, be located at EN.1, and be responsible for allotment of circuits on buries.
 - (c) 2/Lt. McMurray will take over command of No.37 Area Signal Detachment, and work under the orders of Officer i/c Corps Buries.
 - (d) OO Section at HOOGE (E Sub-area) will be relieved by a party of No.16 Area Signal Detachment, from Second Army, and on relief will move to EN.3 (Reserve).
 - (e) AT Section at 'Y' Box under Lieut. Jackson will take over B Sub-area from AA Section.
 - (f) AA Section will move to BELGIAN CHATEAU and take over A Sub-area from AR Section, transferred to XIV Corps.
 - (g) 2/Lt. Hedderwick will assist Lt. Jackson at 'Y' Box.
 - (h) OO Section at EN.3 will act as emergency breakdown section, vice AT Section.
 - (i) Area Signal Officer and Sub-area Signal Officers will receive their instructions from Officer i/c Corps Buries. They will also act on orders issued by Area Signal Officer in emergency.

7th October,
1917.

Lieut. Colonel, R.A.,
A.D.SIGNALS, I ANZAC CORPS.

Distribution:-

O.C. "K" Corps Sig. Co.	1.	Lieut. Hedderwick	10.
O.i/c Signals, Corps H.A.	2.	" Helmsley.	11.
O.C. 1st Aus.Div.Sig.Co.	3.	" Smith.	12.
O.C. 4th Aus.Div.Sig.Co.	4.	" Beaver.	13.
O.C. 2nd Aus.Div.Sig.Co.	5.	" Spurr.	14.
O.C. 5th Aus.Div.Sig.Co.	6.	" Morrow.	15.
Lieut. Edwards.	7.	" Comport.	16.
" McMurray.	8.	" Chubb.	17.
" Jackson	9.	War Diary.	18.

3

A.D. Signato (for information)



MAINTENANCE OF CORPS ROUTES FOR 9/10/17.
=====

The following parties will carry out the special maintenance of the open and poled cable routes forward of EN.1 and EN.20 from 6 p.m. 8th to 5 p.m. 9th.

- (a) The Dolls House party consisting of the linemen already stationed there and strengthened by Corporal Williams and 2 linemen from W.18 M.A. Section will be entirely responsible for
- (1) DH/Y poled cable route.
 - (2) DH/QB open wire route.
- (b) The EN.20 party consisting of the linemen already stationed there strengthened by Sergt. Cliffe and 1 lineman of W.18 M.A. Section will be entirely responsible for
- (1) EN.20/QB open wire and poled cable routes.
 - (2) EN.20/EN.1 open wire route. (The poled cable route is now out of use).
 - (3) QB/C open wire route.
 - (4) EN.1/C open wire route.
- (c) Lieut. Hemsley (Signal Area Officer) will arrange for 2 linemen from AA Cable Section stationed at C Test Point and 2 linemen from AT Cable Section stationed at Y Box to be held in readiness to repair the CY combined open wire and poled cable route. (If the route is in working order by the 9th).
- (d) The back area between A.U.O. and E.N.1 - E.N.20 will be maintained by Sergt.-Major Woodhead and the remainder of W.18 Motor Airline Section, who will be stationed in the Stable Camp ready for any emergency.

These routes are to be maintained at all costs night and day.

8th October,
1917.

C.H. Walsh
Capt.,

O.C. 'K' Corps Signal Company, R.E.

(5)

Wanbury

War Diary

SECRET.

Copy No. 23.....

First ANZAC Corps,
10th October, 1917.

SIGNAL INSTRUCTIONS No.1 (Series No.5).

Issued under G.S.Preliminary Instructions No.1 of 9th Oct.
*Series No. 5.*COMMUNICATIONS - General Scheme - Part A. Preparatory.
-----1. LINES.

(i) Reference Signal Instructions No.1 (Series No.3) of 30th September, paragraph 1 (ii) : -

(a) The route from JT to LR via SS has been completed.

(b) The AZ-GP-AL-TK route has been completed to TOKIO. The original route has had to be reconstructed, as shewn in attached map, by burying new loops between each test point. From TK a 42 pair route has been continued as far as D.28.c.5.8 where it is unterminated. TK at present serves as Cable Head for Left Division.

(c) Reference Signal Instructions No.2 (Series 3) of 3rd October; a buried route of 24 pairs has been constructed from AZ to AW (J.3.d.3.8). AW at present serves as Cable Head for Right Division. From AW a 25 pair route is being constructed via J.3.a.9.6 to dug-outs at Retaliation Farm (RF) thence to crater at D.29.c.5.7 (CR). This route has at present reached D.28.c.4.2.

(d) II Anzac Corps have completed the route from DV (Douglas Villa, J.1.a.1.9) to JT. Signal Instructions No.1 (Series 3) para.1(iv) refers.

(ii) In preparation for the next operations the following construction work will be undertaken forthwith:-

(a) The main route forward from TK will be continued forward from D.28.c.5.8 to DE KNOET FARM (D.28.b.6.6) where it will be led into a test point KF. Thence it will be continued to MOULIN FARM (D.22.d.4.6) where it will be led into a test point (MF). This route will be subsequently continued from MF in a north easterly direction. To be constructed by 4th Australian Division. Route to be of 42 pairs, and 6 feet depth and marked. Cable will be provided by A.D.Signals. A certain amount is at present available at TK.

(b) In the Right Division Sector the 25 pair route at present under construction will be continued from D.28.c.4.2 to RETALIATION FARM where it will be led into a test point RF, thence via Crater (D.29.c.4.7) to a suitable dug-out which will be selected in the vicinity as Cable Head (CR). To be constructed by 5th Australian Division. Route to be of 25 pairs and 6 feet depth and marked. Cable will be provided by A.D.Signals. A quantity is already available at AW.

/(c)...

(2)

- 2 -

(c) A lateral route will be constructed, under instructions to be issued later, between Retaliation Farm and Do Knoet Farm.

(iii) A map shewing routes forward of AZ is attached.

(iv) Maintenance. - will be as laid down in Signal Instructions No.1 (Series 3) of 30th September, para.1(v), for Corps maintenance. Divisional Maintenance will be as under :

Right Division.

W K - P G.
P G - A Z.
A Z - A W.
A W - R F.
R F - C R.

Left Division.

J T - L R.
J T - A Z.
A Z - G P - A L - T K.
T K - K F.
K F - M F.

(v) Allotment of Lines.

Attention is called to Signal Instructions No.1 (Series 3), para.1(vi)(a).

Preliminary allotment of lines forward of AZ will be as under and not as stated in para.1(vi)(b) of above quoted instructions.

AZ-GP-AL-TK-KF-MF ... Corps (including H.A.) 15 pairs.
Left Division ... 15 "
Remainder in reserve Left Division allotment.

AZ-AW-RF-CR ... Corps (including H.A.) 5 pairs.
Right Division... 15 "
Remainder in Reserve Right Division allotment.

2. VISUAL.

Divisions will at once prepare schemes for visual signalling in their own sectors, the Left Division for offensive operations, the Right Division for defensive.

3. WIRELESS.

(a) Positions of Corps Directing and Advanced Directing Stations will remain as at present. The Corps Directing Station will continue to act as Army Control Station.

(b) Divisions will at once submit schemes for wireless, P.B. and Amplifier communications in their own sectors, Left Division for offensive operations, Right Division for defensive. The Corps Wireless scheme will then be issued.

(c) One Contact Aeroplane Wireless Station will be established in the Left Divisional Sector at I.12.c.3.5.

/4...

(19)

- 3 -

4. PIGEONS. }
 5. GENERAL. } As laid down in paras. 4 and 5 of Signal
 Instructions No. 4 of 17th September.

6. CONTACT AEROPLANES.

As laid down in paragraph 6 of Signal Instructions No. 2 (Series 2) of 24th September, except that there will be no dropping station at Advanced Divisional Headquarters. All messages will be dropped at Corps Headquarters, and forwarded from there to the Advanced Headquarters of the Division concerned.

7. ACKNOWLEDGE.

R. G. G. G. G.

Lieut. Colonel, R.A.,

A.D. SIGNALS, I ANZAC CORPS.

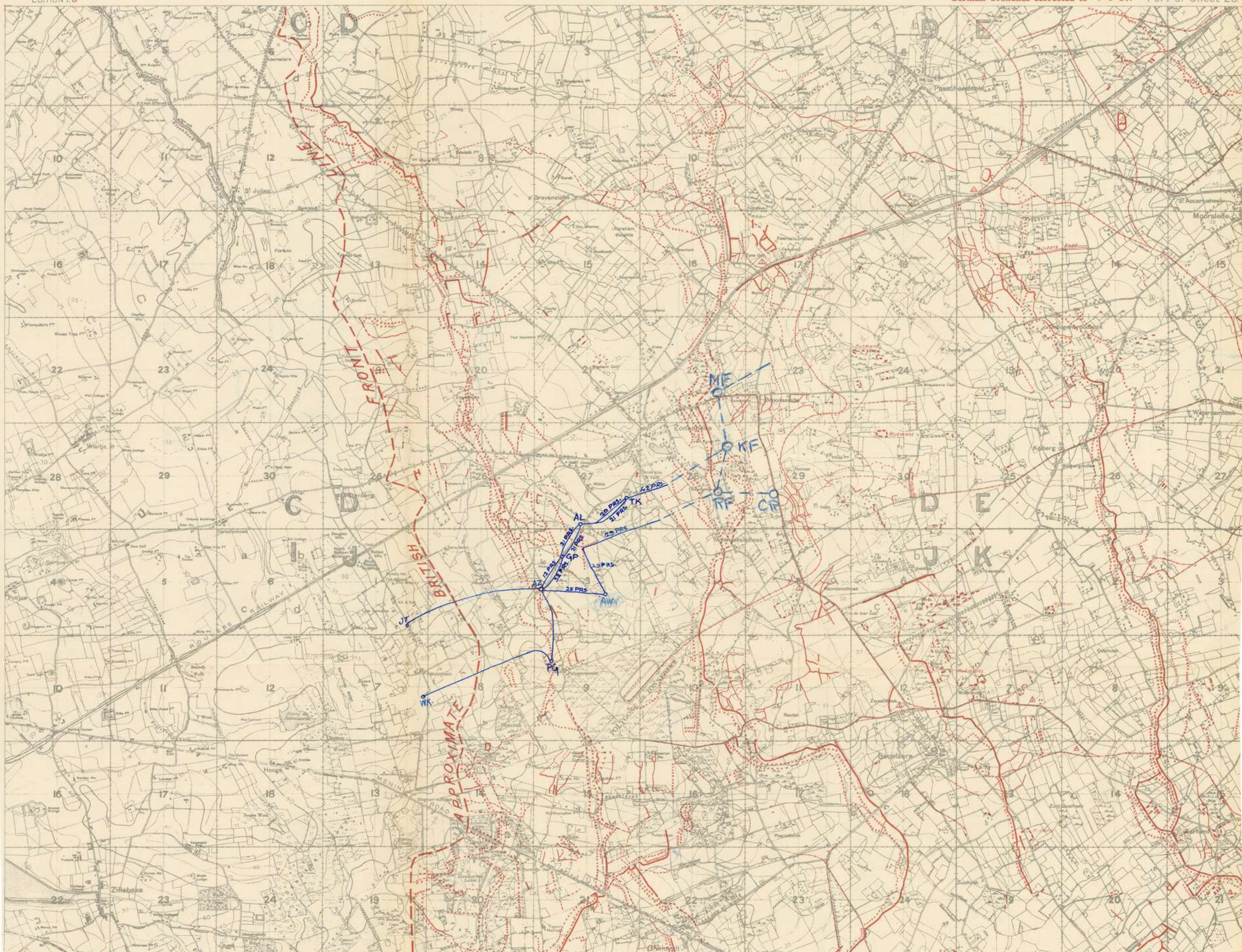
<u>Distribution.</u>	<u>Copy No.</u>
O.C. 1st Aust. Div. Sig. Co.	1.
O.C. 2nd Aust. Div. Sig. Co.	2.
O.C. 4th Aust. Div. Sig. Co.	3.
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O.C. "K" Corps Signal Co.	5.
O. i/c Signals, Corps H.A.	6.
Corps Wireless Officer.	7.
Area Signal Officer.	8.
A.D. Signals, II Anzac Corps.	9.
A.D. Signals, X Corps.	10.
D.D. Signals, Second Army.	11.
I Anzac G.S.	12 to 19.
G.O.C., R.A.	20.
C.M.G.O.	21.
AQ.	22.
War Diary.	23. ✓

(20)

EDITION 1.8

POLYGON WOOD

German Trenches corrected to 9-9-17. Part of Sheet 28.



ESGc 1003 27 6 1064 12 9 17

Yards 0 200 400 600 800 1000 1200 1400 1600 1800 2000 Scale 1:20,000

21

23

1/20

3
SECRET.

War Diary

Appendix No. 10
Appendix 10 35

Copy No.....

I ANZAC CORPS BURIED CABLE SCHEME

Instructions for Maintenance No.4.

1. (a) P Cable Section in F Sub-area will be relieved by J Cable Section. The relief will be carried out gradually under instructions to be issued by O.C. "K" Corps Signal Company. P Section on relief will take over C Sub-area.
(b) 2/Lt. Garner has taken over command of P Cable Section vice Lt. Chubb.
2. OC Cable Section is being transferred to Fifth Army on 12th inst., and will move under orders issued separately.
3. No.16 Area Signal Detachment under 2/Lt. Overton has taken over E Sub-area from OC Section.

10 Oct 1917

John G. Bell

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

Distribution.

Copy No.

- | | |
|-----|--------------------------------|
| 1. | O.C. "K" Corps Signal Company. |
| 2. | O. i/c Signals, Corps H.A. |
| 3. | O.C. 1st Aust. Div. Signal Co. |
| 4. | O.C. 2nd Aust. Div. Signal Co. |
| 5. | O.C. 4th Aust. Div. Signal Co. |
| 6. | O.C. 5th Aust. Div. Signal Co. |
| 7. | Lieut. Edwards. |
| 8. | " McMurray. |
| 9. | " Jackson. |
| 10. | " Heddewick. |
| 11. | " Hemsley. |
| 12. | " Smith. |
| 13. | " Garner. |
| 14. | " Spurr. |
| 15. | " Overton. |
| 16. | " Comport. |
| 17. | " Chubb. |
| 18. | " War Diary. |

I Anzac G.S.)	
A.D.Signals, II Anzac Corps.)	for information.
A.D.Signals, X Corps.)	

(22)

RCDIG1005913

1st Anzac W/T Section.
~~Australian Divisional Signal Company.~~

Mondays.

To be rendered IN DUPLICATE to A.D. Signals, I. Anzac Corps, weekly (up to and including ~~Sundays~~ ^{Monday}).

214

Date 9-10-11

(Sd.) Alfred Krause

O.C. Divisional Signal Co.

SECRET.

Copy No.....

I ANZAC CORPS BURIED CABLE SCHEME

Instructions for Maintenance No.5.

1. The following routes in C Sub-area are being taken over by Xth Corps :-

F	-	E.
E	-	D.
H C	-	D R.
D R	-	D S.
D S	-	H I.
D R	-	G.
D S	-	Y P.

The Xth Corps Area Officer, who will take these routes over, is Lieut. Wallace, Bedford House.

The handing over will be arranged direct between the Area Signal Officers concerned.

The Cable Section responsible for the maintenance of C Sub-area will continue to be located at D Box for the present, and will continue to maintain the E - D route under instructions of A.D.Signals, X Corps. E Box will continue to be manned by I Anzac Corps.

The plan issued with Instructions for Maintenance No.2 of 2nd October will be amended accordingly as regards C Sub-area.

11th October,
1917.

R. P. Toell

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

Distribution:-

O.C. "K" Corps Sig.Co.	1.
O. i/c Sigs. Corps H.A.	2.
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O.C. 2nd Aus.Div.Sig.Co.	4.
O.C. 4th Aus.Div.Sig.Co.	5.
O.C. 5th Aus.Div.Sig.Co.	6.
Lieut. Edwards	7.
" McMurray	8.
" Jackson	9.
" Heddewick	10.
" Hemsley	11.

Lieut. Smith	12.
" Garner	13.
" Spurr	14.
" Overton	15.
" Comport	16.
" Chubb	17.
War Diary	18.

I Anzac G.S.	} for information.
A.D.Sigs., II ANZAC.	
A.D.Sigs., X Corps.	

*Copy to
H.Q. Signals
1st Hazare
for information*

Appendix No. 13
Appendix 13

4th AUSTRALIAN DIVISION.

Report on Communications before and during the attack on the
PASSCHENDAELE RIDGE, 11th to 13th October, 1917.

=====

Cable. On taking over from 2nd Australian Division at 10-0 a.m.
11th October, that Division's communications were relieved and
taken over as a going concern.

In order to prepare for next day's attack, it was
necessary to lay ground cable from Cable Head, (TOKIO D.27 d.7.7),
to Right and Left Brigade Forward Stations, a distance of 1200
yards in the former instance, and 2000 yards in the latter. From
Left Brigade Forward Station, a further ground cable was laid
forward to Battalion Headquarters at D.17 c.6.8, 800 yards. It
will be seen from this that the distance between Cable Head and
Battalion Headquarters, (Left Brigade), 2800 yards, made the
maintenance a big undertaking in an attack, but notwithstanding
the heavy enemy shelling on this sector, communication was
maintained with very little interruption, and considerably more
traffic could have been transmitted than was offered. In the
case of the Right Brigade, the shorter distance to maintain
assisted largely in keeping in touch throughout, although the
shelling was just as heavy as elsewhere.

At about 8-0 p.m., 11th inst., the buried cable route
between Divisional Headquarters and Brigades on the one hand, and
Brigades and Battalions on the other, was blown out by an 8" H.E.
shell. Breakdown gangs were on the job immediately, but owing
to the considerable number of shell holes in the vicinity, the
party was unable for some time to locate the shell hole in which
the break occurred. About half an hour before Zero, sufficient
pairs were "through" to supply immediate requirements. During
this time, Divisional traffic to Brigades, was transmitted
through the Right Brigade, Left Division; forward of Brigades to
and from their Battalions, the Earth Conduction Service and
Visual Signalling were employed at high pressure with excellent
results.

(26)

- 2 -

Earth Conduction Service.

Some modifications from 2nd Australian Division's System were necessary in siting of High Power Buzzers and Amplifiers to suit altered conditions. A complete series of circuits was arranged, working from San Souci forward to Battalions in the attack via ANZAC, TOKIO, MOULIN FARM, and DEKNOET FARM, thus securing communication independent of cable.

This service was invaluable during the night 11/12th October, when the cable routes were blown out. After Zero, owing to the cables holding well, Earth Conduction Circuits were seldom used.

Visual.

The Divisional Signal Station was established at Brigade Headquarters, D.26 a.1.4, from where direct communication was maintained throughout from Right and Left Brigade Forward Stations, and Left Brigade Advanced Headquarters. The terrain proved excellent for visual, and consequently traffic was very heavy, and was well and expeditiously handled.

Pigeons.

As usual, pigeons proved an excellent and certain means of communication from front line. In each case pigeon messages contained useful information. Sixteen birds per attacking Battalion were allotted. Pigeons were relayed from White Chateau via Birr Cross Roads to distributing centre at Brigades, thence to Brigade Forward Stations and Battalions.

Runners.

Did excellent work. Relay posts were established at convenient distances, consistent with suitable cover being obtained.

D.Rs.

Between Division and Brigades, Motor cycles were impossible, Motor Cyclist D.Rs. and other available personnel such as grooms and batmen, were mounted on horses and the service maintained in that way. Latterly, on account of intermittent burst of shelling around Brigade Headquarters, it was found necessary to relay Brigade Sealed Packet traffic at D.25 d.1.9.

16th October, 1917.

H. G. Bass Major,
O.C., Signals,
4th AUSTRALIAN DIVISION.

4th AUSTRALIAN DIVISION.

Report on 12th and 13th Aust. Infantry Brigade Communications - period
11th/14th October, 1917.

Reference attached Map.

Line Communication of Right Brigade in line.

On bury from Railway dug-out (L.E.), via S.S., J.T., A.Z., G.P. to T.K., (Cable Head), then, after taking advantage of short spur of incomplete buried route, by ground cable to Right Brigade Forward Station. From Forward Station to three Battalion Headquarters in line by ground cable. Test and Switching points at Cable Head and Forward Station.

The maintenance of ground lines was difficult owing to extra swampy nature of ground, in addition to the persistent shelling.

Line Communications of Left Brigade in line to T.K. was as for Right Brigade. From Cable Head to Brigade Advanced Station, D.22 d.2.4, and then to Forward Station by ground cable. To Battalions as shown by ground lines. Test and Switching points Cable Head, Advanced Brigade Station, Brigade Forward Station, with linemen's station about half way between Advanced and Forward Stations.

Lines during Attack.

About 8 hours before Zero, buried route between S.S. and J.T. was blown out, cutting off all forward and rear telephone and telegraph service, but sufficient lines were got through before Zero to re-establish communication to Cable Head and Division. At Zero all ground lines forward of Cable Head were cut, but communication was re-established to Forward Stations at about 15 to 30 minutes after Zero, and maintained except for short periods. Line Communications to Battalions from Brigade Stations fairly satisfactory. Telephone communication to Battalion Headquarters in 17 C. remained practically uninterrupted throughout.

The situation re lines became better as day advanced.

- 2 -

Visual. Left Brigade established visual on 11th, between Brigade Headquarters and their Advanced Station and Forward Station and satisfactory work carried out.

Right Brigade established visual about 10-0 a.m., on morning of 12th, near their Forward Station, and worked back to Divisional Visual Station at Brigade Headquarters, which took over station from Left Brigade on morning of 12th. Six visual men also were loaned to Brigades for Forward Visual Stations.

Swd. Once established, Visual Stations were never out of touch, and worked well.

Amplifier and Power Buzzers were established as shown on attached map.

All Stations remained in touch throughout operations except for Power Buzzer at Left Brigade Forward Station. This was rectified morning of 12th, and an amplifier was sent up completing chain of stations. A Charging Station was also established near San Souci. The small amount of traffic dealt with shows, that what there was, came by quicker methods.

*more
of
hang
needed* Runners. Reliable; although working under adverse conditions. Left Brigade worked slightly shorter relays than Right Brigade, but comparison of results could not be made owing to different conditions. More notice and direction boards required, especially at flank Battalion Headquarters.

Pigeons. Use of pigeons still unsatisfactory. Normal supply as follows : delivered to pigeon dump, 6-0 a.m. to 9-0 a.m., taken forward by Runners to Brigade, thence to Battalions, being taken up to certain Companies, etc., after dark. They should, if not released the following day, be released at daylight the morning after. Should more pigeons be required they should be asked for ahead, and birds should not be retained for three or four days, especially as they seem to be seldom used. During operations, pigeons made fairly good flights; one bird which had been in for four days, dying at loft on arrival. Supplies were becoming short on 14th, owing to birds being retained in trenches too long, thus necessitating a longer rest before being trapped for further work.

- 3 -

General.

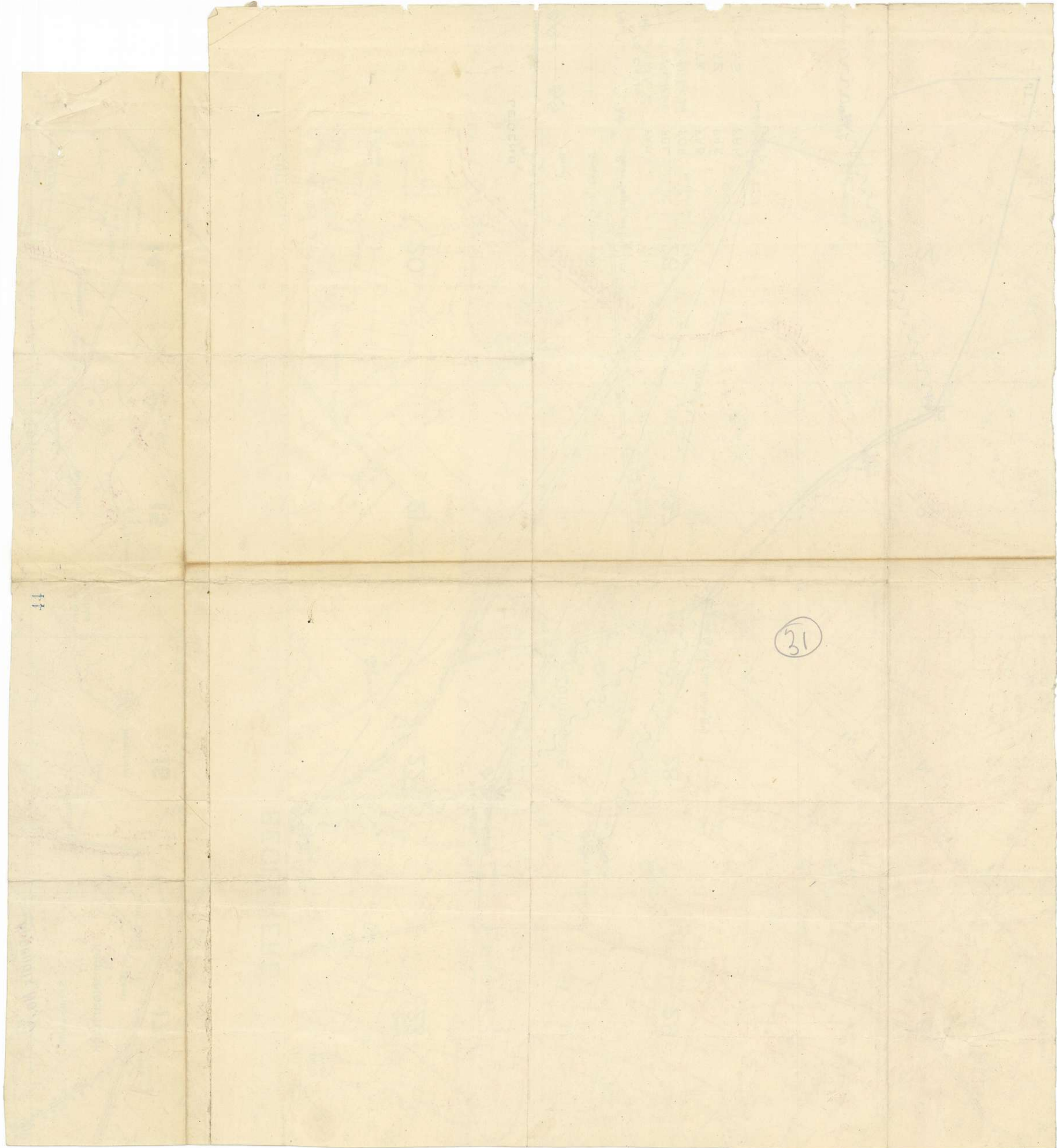
Everything it was possible to allow for, worked well. Zero hour being so soon after taking over did not allow, under the conditions existing, of complete arrangements being made beforehand. The results were, under these conditions, satisfactory as far as Signal Service concerned.

Map attached.

C. J. Steph Captain,
4th Aust. Div. Signal Company.

16th October, 1917.

(30)



I Anzac

45

T. 25/6.

14. 10. 17.

I Anzac G.S.

The buried cable route from Halfway House to Hooge Test-point has broken down completely, and it will be necessary to re-dig the route for half a mile (i.e. two 440-yards sections) from Hooge, as this portion is beyond repair. It is desirable to construct a complete a 440-yard section at a time, and for this length in the very bad ground the route traverses at least three hundred men will be necessary.

The best time to start work would I think be at dawn. Two days, with 300 men, should complete the work, but if there are any delays from shelling, etc., it may of course take longer.

Can arrangements be made for the necessary labour, please ? Corps Signals will provide the party for technical work.

14th October,
1917.

R. Powell

Lieut. Colonel, R.A.,
A.D.SIGNALS, I ANZAC CORPS.

(32)

Australian Divisional Signal Company.

Mondays.

To be rendered IN DUPLICATE to A.D. Signals, I. Anzac Corps, weekly (up to and including ~~Sunday~~ ^{Monday})

33

(Sd.) W. R. R. 49

O.C. Divisional Signal Co.

2nd F.S. Co., R.E.—2399—500—6-8-17

..... Divisional Signal Co.
Wireless Boat
Any one

SECRET.

Copy No.

First ANZAC Corps,

19th October, 1917.

SIGNAL INSTRUCTIONS No.1 (Series No.6.).Issued under G.S. Preliminary Instructions No.1 (Series 6.).1. LINES.

(i) Reference Signal Instructions No.1 (Series No.5) of 10th October, paragraph 1, the present condition of forward Buried Cable routes is as follows :-

- (a) Owing to the condition of the ground, the AZ - GP - AL - TK route has been extended to RF (Retaliation Farm), and not to KF (de Knoet Farm), direct, as intended. From RF, however, the route has been continued to KF, and is being continued thence to MF (Moulin Farm, the location of the test point at latter place being D.22.d.9.7. MF will serve as Cable Head for Left Division until the main route can be continued further forward in a N.E. direction.
- (b) The AZ - AW route has been completed to RF and thence to CR (Crater D.29.c.4.7). CR will serve as Cable Head for Right Division. It will thus be seen that the two forward routes join at RF.
- (c) The JT - SS - LR route has been broken by shell fire and is in bad condition though some pairs are working.
- (d) The WK - PG, and AZ - PG routes have been partially destroyed and are out of action.
- (e) The HH - HO route has been much damaged and is practically useless and beyond repair for about 800 yards run from HO (Hooge). Test Boxes have been installed on either side of the break, so that overground cables can be run across the latter if required. Certain circuits on this route have been transferred on to the X Corps route from HH to HO via Yeomanry Post (YP) and Sanctuary Wood (SW).
- (f) The test point at BX has been flooded out, and interruption caused on circuits which could not be joined through in time. The water is now being pumped out and new test racks are being fitted by Corps Signals and circuits restored

(ii) Work to be undertaken.

- (a) No new routes will be constructed at present, but every effort will be made to improve and restore existing routes. Shell holes on routes will be filled in, routes banked where necessary, and test points improved.
- (b) Corps Signals will restore the HH - HO route, as soon as labour is available to re-dig the faulty sections.
- (c) Right Division will restore the WK - PG, and AZ - PG routes, re-digging such portions as may be necessary.
- (d) Left Division will endeavour to restore the JT - SS - LR route, and recover as many circuits as possible. The amount of work expended will be dependent upon the degree of permanence of the present Brigade H.Q. at LR.

34

- 2 -

(iii) A revised map is attached.

(iv) Maintenance will be as laid down in paragraph 1(iv), Signal Instructions No.1 (Series No.5) of October 10th, except as follows -

Under "Left Division" for "TK - KF" read "TK - RF
RF - KF".

(v) Allotment of Lines. As in paragraph 1(v), Signal Instructions No.1 (Series No.5) except as follows -

for "AZ - GP - AL - TK - KF - MF"
read "AZ - GP - AL - TK - RF - KF - MF".

2. VISUAL.

The present Corps front offers excellent opportunities for visual signalling, especially with Lucas Lamps. In each Divisional Sector, suitable visual stations will be selected, prepared, and protected as far as possible.

3. WIRELESS.

(a) An Appendix, shewing the Corps Wireless Scheme at present in operation, is attached.

(b) For the next operations no Contact Aeroplane Wireless Station will be installed.

4. PIGEONS.

5. GENERAL.

6. CONTACT AEROPLANES.

As laid down in paras. 4, 5, and 6,
Signal Instructions No.1 (Series No.5)
of 10th October.

7. ACKNOWLEDGE.

R. A. P. Bell

Lieut. Colonel, R.A.,
A.D.SIGNALS, I ANZAC CORPS.

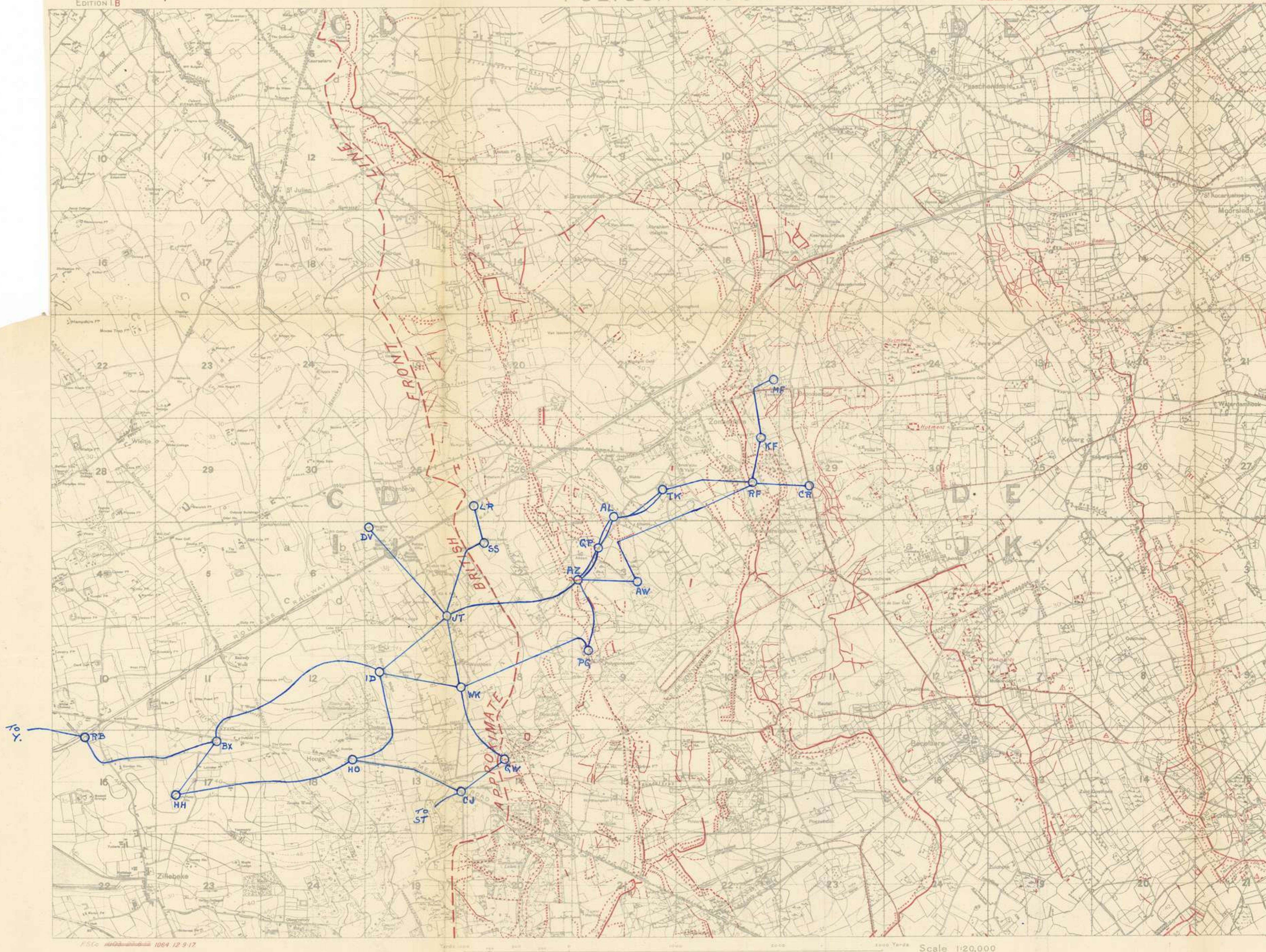
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Area Signal Officer.	8.
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I Anzac G.S.	12 to 19.
G.O.C., R.A.	20.
C.M.G.O.	21.
AQ.	22.
War Diary.	23.

(Handwritten mark)

POLYGON WOOD

German Trenches corrected to 9-9-17. Part of Sheet 28.

Edition 1B



36

S E C R E T.

APPENDIX I

to

Signal Instructions No.1 (Series 6.).

CORPS WIRELESS SCHEME.1. WIRELESS.

Five stations are in operation as under:-

Station.	Reference.	Call.	Manned by
Army Control Stn.	H.22.c.5.9.	DL, CA', CP.	Corps Section.
Corps Dtng. Stn.	I.14.b.1.8.	NR, PK, MH.	Corps Section.
Bde.H.Q. R.Div.	J.1.d.7.2.	MP, CF, CML.	R.Div. W/T Sect.
Rsvs.Bde. R.Div.	I.17.c.4.8.	ZR', PM. ZB'.	R.Div. W/T Sect.
Bde.H.Q. L.Div.	J.2.a.1.8.	ML, CY, CK.	L.Div. W/T Sect.

Good communication is established between all these stations. The Army Control Station at present consists of a Wilson Set, but this is being replaced by a half K.W. Pack Set and it is expected that this will give good communication with all the trench sets on the Army front. The station is being used to obtain intercept reports on the general work between all wireless stations of this Army, and is also available as a rear Corps Directing Station.

The Corps Directing Station is fitted with a Wilson Transmitter and Mk.III receiver. It is adjacent to both Right and Left Advanced Divisional H.Q. and has a telephone direct to EN.1, Corps Advanced Exchange. A large reserve of wireless stores and spares are kept at this station with a sergeant in charge who issues direct on receipt of demands from Divisional Wireless Officers and arranges means of sending stores forward.

One Trench Set is installed in the vicinity of Right and Left Brigade H.Q. (which are adjacent) in each Divisional area, and in the Right Division there is also a set at Reserve Brigade H.Q. Attempts have been made to push Wireless communication further forward but results have not been satisfactory. Power Buzzer has been found more reliable.

AMPLIFIERS.

Communication forward of the Trench Wireless Sets is carried on by Power Buzzer and Amplifiers in each Divisional area. In the Right Division combined Power Buzzer and Amplifier stations for up and down working are situated as follows :-

Bde.H.Q. Right Div.	J.1.d.7.2.	Call	M A J.
Relay	J.3.c.2.8.	"	C B I.
Cable Head	J.3.d.3.8.	"	C B D.
Relay	J.4.b.1.5.	"	M T P.
Bde. Forward Stn.	J.4.b.9.9.	"	M U T.

/The...

(37)

- 2 -

The following Power Buzzer and Amplifier Stations are established in the Left Divisional area :-

R. and L. Bdos. L.Div.	J.2.a.1.8.	call	M S M.
Relay	J.3.c.3.9.	"	C T T.
Cable Head	D.27.d.7.7.	"	M S J.
Left Bde. Fwd. Stn.	D.22.b.5.9.	"	M G E.
Right Bde. Fwd. Stn.	D.28.b.6.6.	"	C R O.

Thus a Wireless Chain is established from Divisional Headquarters in each case to Brigade Forward Stations. The accompanying map diagram shews the general arrangement.

CHARGING ARRANGEMENTS.

A Corps Forward Charging Station is established at SANS SOUCI where accumulators from forward amplifier stations of both divisions are charged. An electrician from Corps Section has charge of the set which consists of one K.W. Ballot.

A circuit of 6 amps. from the lighting generator at Halfway House is being used by Right Division, and a similar circuit at Railway Dug-out is available for Left Division.

Another Corps Charging Station is installed at the Ramparts with the Wireless Directing Station. A Ballot set and a tapping from the electric light mains supplies the necessary current. A reserve of accumulators is maintained at this point and minor repairs can also be done when necessary.

The Corps Lorry Charging Set is situated at the Wireless Section H.Q., Stone Siding OUDERDOM.

GENERAL.

An attempt has been made recently to intercept enemy Power Buzzers on the forward amplifier stations, but without success. Interpreter operators were stationed for a week at each of the brigade forward stations for this purpose.

All the amplifier stations are in daily use and have done good work when required in emergency. It has been found necessary to limit the range to a comparatively short distance particularly since the wet weather set in

Ken Powell

19th October,
1917.

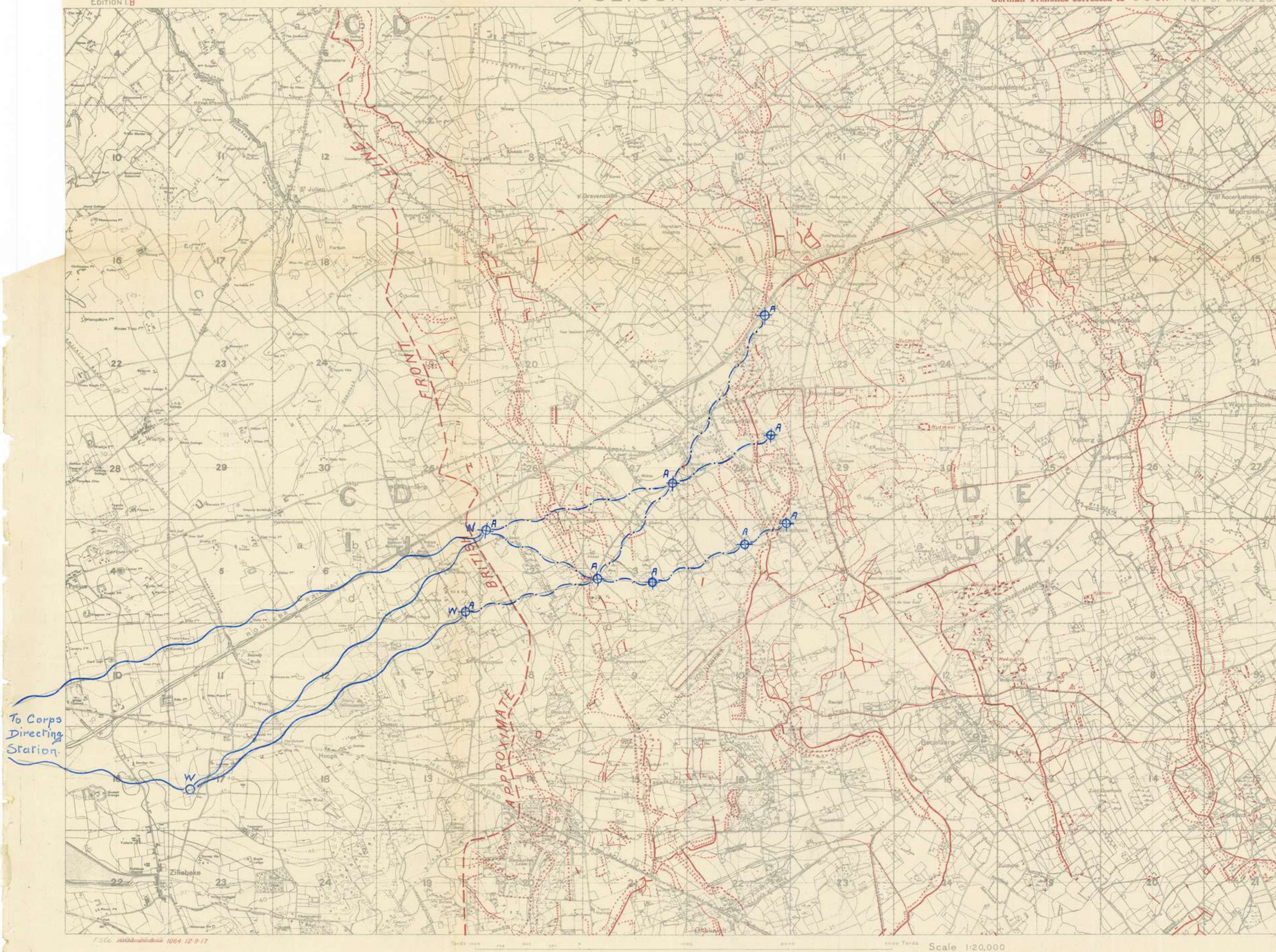
Lieut. Colonel, R.A.,
A.D.SIGNALS, I ANZAC CORPS.

(28)

Edition 1.B

POLYGON WOOD

German Trenches corrected to 9-9-17. Part of Sheet 28.

W
10

W
10.

38

S E C R E T.

Copy No.....

First ANZAC Corps,

22nd October, 1917.

ORDERS BY A.D.SIGNALS.No.6.

1. No.16 Area Signal Detachment quartered at HOOGE, is being transferred from I Anzac to X Corps at 10 a.m. on 23rd October.
2. The above detachment will continue to maintain the same routes as at present, and work conjointly under A.D.Signals of Xth and I Anzac Corps.
3. The detachment will^{be} administered and rationed by Xth Corps Signals.

4. ACKNOWLEDGE.

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

Distribution:-

O.C. "K" Corps Signal Coy.	1.
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O.C. 16 Area Sig. Det.	4.
A.D.Signals, X Corps.	5.
I Anzac G.S.	6.
I Anzac A.Q.	7.
D.D.Signals, Second Army.	8.
War Diary.	9.

(16)

I ANZAC
WIRELESS.No. W.35/1.
Date 20/10/17.

Appendix 16

A.D. Signals,
1st Anzac Corps.

The following analysis of messages handled by Wireless, Power Buzzer and Amplifier respectively, between stations of the Right Division for week ending 18:10:17, is forwarded for your information:-

Messages sent between H.Q. of Brigade in line and AYE through Corps Directing Station totalled 21, with an average of 13 words per message, and an average time of 15 minutes per message. All these messages were in Field Cipher; and one message of 12 words which took 52 minutes owing to delay in delivery by runner, is included. The average is slightly over a minute per word which could be improved a trifle by practise, but not much.

Three wireless message were also sent between H.Q. of Brigade in line and Reserve Brigade, and 18 messages between Reserve Brigade and Division at the same average rate.

In the case of messages sent by amplifier and Power Buzzer between Brigade Forward Station and Cable Head, a total of 30 messages other than S.G's, were handled, 15 of which were in clear and 15 in cipher. The difference in the speed of handling is shown as follows:-

	No. of msgs.	Average words.	Average time.	Time per word.
Clear	15	20	6½ mins.	19½ secs.
Cipher	15	15	8½ "	38 "

The difference in time taken by wireless messages in cipher (67 secs. per word) and amplifier messages in cipher (38 secs. per word) is accounted for by the greater jamming in wireless and also the longer distance of delivery by hand.

On 15th inst. one Amplifier message in "B.A.B." figure code consisting of 30 groups was transmitted in 4 minutes.

The speed of operating in both Wireless and Power Buzzer is only limited by capabilities of operator and not the instruments; but in cipher messages not only is the speed limited by the additional time taken to encipher and decipher, but the absence of a running context makes it necessary to send slowly and ask for repeats when there is the slightest doubt about a single letter. Also the mistake of one letter in the cipher produces two mistakes in the deciphered message and with the jamming that one has to work through nowadays it is seldom possible to receive a message without some letters being jammed. (E)

The only remedy is a greater insistence of the use of code rather than cipher. It is of interest to note that during

-2-

the weeks messages that above figures are taken from, not a single message in code was handed in for Wireless transmission and only three for Power Buzzer transmission.

R. W. Robinson

Lieut.,
Corps Wireless Officer,
1st Anzac.

(42)

WEEKLY Carrier Pigeon Report . 20. 60K . 1917.

BIRDS SENT TO 4th DIV.

FOR AD SIGS.

	L O F T.	No. of Birds.	Date of return.	Tactical Messages.	Practice messages.	Without clips.	EMPTY CHIPS	REMARKS.
14/10-17	57 HORSE DRAWN	28	20 on the 15 th 3 " " 16 1 " " 17 4 " " 19	1	7	10	10	
15/10-17	5 MOTOR MOBILE	28	16 on the 15 th 8 " " 16 4 " " 17	—	—	11	17	
16/10-17	24 HORSE DRAWN	16	12 on the 17 4 " " 18	—	8	8	—	
17/10-17	57 HORSE DRAWN	12	2 on the 18 10 " " 19	—	2	6	4	
18/10-17	5 MOTOR MOBILE	12	4 on the 19 8 on the 20	—	8	4	—	
19/10-17	24 HORSE DRAWN	12 ⁹⁶	12 on the 19 th	—	8 ²⁵	4 ³⁹	— ³¹	
That weeks report will count from the 20 th inst								

Appendix 17

Appendix No. 14

Appendix No. 14

(244)

3

FOR A.D.SIGS.

BIRDS SENT TO 5th DIV.

	L O F T.	No. of Birds.	Date of return.	Tactical Messages.	Practice messages.	Without clips.	EMPTY CLIPS	REMARKS.
14/10-14	R25 STATIONARY	30	14 on the 15 th 16 on the 16 th	1	8	6	15	
15/10-14	19 Horse Dragoon	30	13 on the 16 th 15 " " 17	-	14	11	-	1 MISSING 1 KILLED
16/10-14	58 Horse Dragoon	20	14 on the 17 th 6 " " 18	8	4	8	-	
14/10-14	R25 STATIONARY	20	20 on the 18	-	-	-	18 20	
18/10-14	19 Horse Dragoon	20	18 on the 19 th 1 " " 20 th	5	14	-	-	1 MISSING
		120		14	43	25	35	117
This weeks report will count from the 19 th inst								

Appendix No. 14

SECRET.

A. D. SIGNALS.
CORPS.
No. <u>TS2898</u>
Date.....

Copy No. 8.....

First ANZAC Corps,

22nd October, 1917.

ORDERS BY A.D.SIGNALS.Appendix 18No. 5.

1. The Maintenance Party of P Cable Section will move from D Box (I.21.b.1.3) to EW.3 on 22nd October, to join the remainder of the section there, under arrangements to be made by O.C. "K" Corps Signal Company.
2. A.D.Signals, X Corps, is arranging to send a party to D Box to-morrow to man that box, and take over the maintenance of E - D Route.
3. Linemen of P Section will remain at D Box till X Corps linemen have arrived and taken over.
4. The allotment of circuit records to be handed over to relieving party.
5. Completion of move to be reported to this office.
6. ACKNOWLEDGE.

Lieut. Colonel, R.A.,
A.D.SIGNALS, I A.N.Z.A.C.

Distribution:

O.C. "K" Corps Signal Coy.	1.
O. 1/c Corps Buries.	2.
Area Signal Officer.	3.
A.D.Signals, X Corps.	4.
I Anzac G.S.	5.
I Anzac AQ.	6.
D.D.Signals, Second Army.	7.
War Diary.	8.

I ANZAC CORPS BURIED CABLE SCHEME

Appendix 19.

Instructions for Maintenance No.6.

1. No.16 Area Signal Detachment under 2nd Lieut. Overton, at HOOGE, is being transferred from I Anzac to X Corps at 10 a.m. on 23rd October. This detachment will continue to maintain the routes in Hooge area, which are as follows :-

HH - HO } I Anzac routes.
HO - ID }

HO - CJ }
CJ - GW }
GW - NB }
CJ - FF } X Corps routes.
GW - FF }
FF - TR }
TR - VK }
TR - KC }

The WK - GW route will be maintained as follows :-
Portion in X Corps area by 16 Area Signal Detachment.
Portion in I Anzac area by Cable Section party at ID.

Junction point of maintenance to be determined by Area Officers concerned.

The O.C. 16 Area Signal Detachment, in Hooge area, will work conjointly under Xth and I Anzac Corps.

2. 'P' Cable Section has been withdrawn from D Box (C Sub-area) to rest at EH.1. 'P' Section will constitute the Corps emergency breakdown party.

3. Xth Corps Signals have taken over D Box. C Sub-area will, therefore, cease to exist as such.

4. Signal Sub-areas will be re-organized as shewn on the accompanying map. Maintenance parties are allotted as under -

A (blue) Sub-area	...	Belgian Chateau	...	AA Section (Lt.Smith).
B (red) Sub-area	...	YPRES	...	AT Section (Lt.Jackson).
C (green) " "	...	Broken Bridge	...	AN Section (Lt.Spurr).
D (black) " "	...	I D	...	J Section (Lt.Comport).
E (purple)" "	...	HOOGE	...	16 Area Sig. Detachment (Lt.Overton).

5. No.37 Area Signal Detachment will provide resident linemen for test points as under -

2 at Y Box	2 at C Box.
1 at QB Box.	1 at E Box.
1 at ZB Box.	

The remainder of detachment will be quartered at EH.1. for work in area as required and for periodical relief of linemen in test points.

6. Linemen to complete the boxes mentioned in paragraph 5 to 2 per box, and to man remaining boxes, will be provided by the section or detachment in whose sub-area the box falls. The section responsible for A Sub-area will provide one lineman at DH.

P.T.O.

- 2 -

7. Attention is drawn to last paragraph of Instructions for Maintenance No.2, of 2nd October, 1917.

23rd October,
1917.

Handwritten signature: R. G. Wall

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

Distribution -

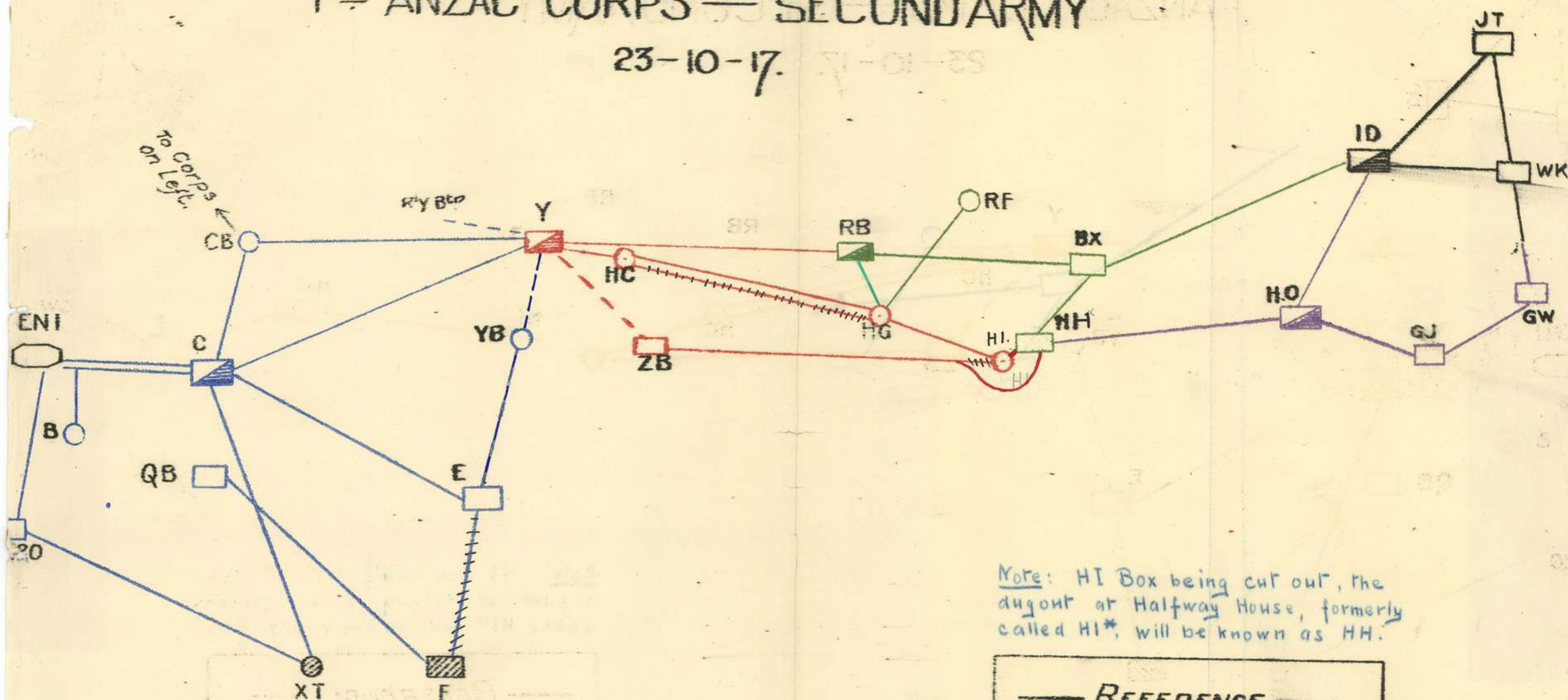
O.C. "K" Corps Signal Coy.	1.
O. i/c Signals, Corps H.A.	2.
O.C. 1st Aus.Div.Sig.Coy.	3.
O.C. 2nd Aus.Div.Sig.Coy.	4.
O.C. 4th Aus.Div.Sig.Coy.	5.
O.C. 5th Aus.Div.Sig.Coy.	6.
Lieut. Edwards	7.
" McMurray	8.
" Jackson	9.
" Heddewick	10.
" Hemsley	11.
" Smith	12.
" Garner	13.
" Spurr	14.
" Overton	15.
" Comport	16.
War Diary	17.

I Anzac G.S.)
 A.D.Signals, X Corps.) for information.
 A.D.Signals, Canadian Corps.)

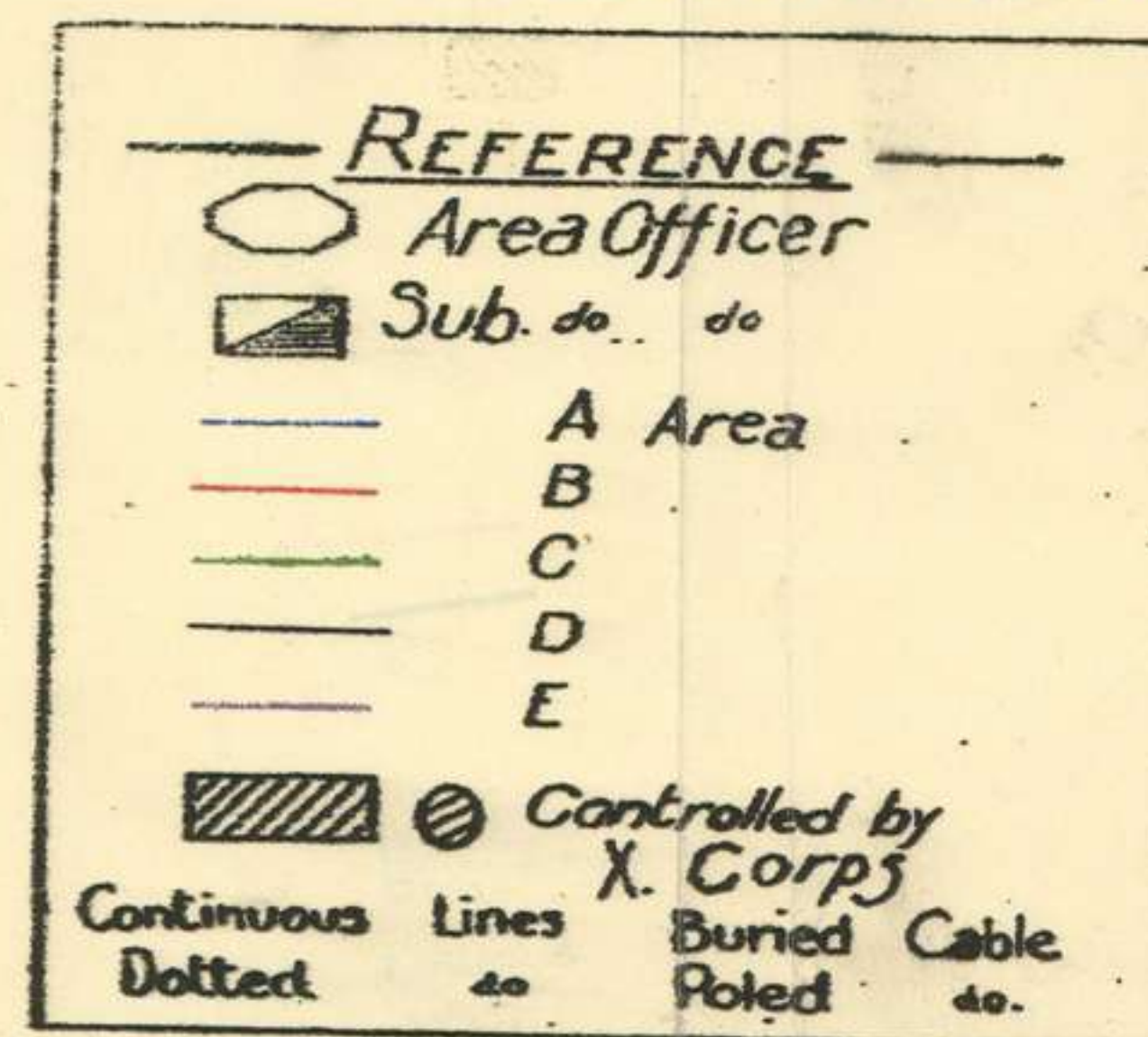
Organization for Maintenance of Buried Cables

1ST ANZAC CORPS — SECOND ARMY

23-10-17.



Note: HI Box being cut out, the dugout at Halfway House, formerly called HI*, will be known as HH.



Organization for Maintenance of Buried Cables 1st AVIAC CORPS — SECONDARY

S2-10-17



(47)

<p>Legend</p> <p>□ General</p> <p>○ Special</p> <p>— Reference</p>	<p>1st AVIAC CORPS</p> <p>2nd AVIAC CORPS</p> <p>3rd AVIAC CORPS</p> <p>4th AVIAC CORPS</p> <p>5th AVIAC CORPS</p> <p>6th AVIAC CORPS</p> <p>7th AVIAC CORPS</p> <p>8th AVIAC CORPS</p> <p>9th AVIAC CORPS</p> <p>10th AVIAC CORPS</p>
--	--

CONSOLIDATED RETURN.

1st Anzac W/T Section.

Australian Divisional Signal Company.

Return of all Wireless and Earth Induction Sets. 15 22/10/17

Mondays.

To be rendered IN DUPLICATE to A.D. Signals, I. Anzac Corps, weekly (up to and including Sundays).

Formation.	No. of Map.	Map square.	Type of set.	Wave length.	Call.
<u>WIRELESS.</u>					
H.Q. Station	28	G.35b2.8.	Press		
Directing Stn.	28	H.22c5.9.	Wilson	550	DL, CA', CP.
Adv. Dtn. Stn.	28	I.14b1.8.	"	"	HR, PK, MH.
Bde. H.Q. Right Div.	28	J.1d7.2.	T.S.	"	MP, CF, CML.
Bde. Fwd. Stn.	28	D.28d5.7.	"	"	YN, DA, DV.
Reserve Bde. R. Div.	28	I.17c4.8.	"	"	ZR', PM, ZB'.
Bde. H.Q. Left Div.	28	J.2a1.8.	"	"	ML, CY, CK.
<u>AMPLIFIERS.</u>					
<u>Right Division.</u>					
Bde. H.Q. Right Div.	28	J.1d7.2.	Amp. & P.B.	-	MAJ.
Cable Head	28	J.3d3.8	"	-	CBD.
Relay	28	J.4b1.5.	"	-	MTP.
Bde. Forward Stn.	28	J.4b9.9.	"	-	MUT.
<u>Left Division.</u>					
R. & L. Bdes. L. Div.	28	J.2a1.8.	"	-	MSM
Relay	28	J.3c3.9.	"	-	CTT.
Cable Head	28	D.27.d7.7.	"	-	MSJ.
R. Bde. Fwd. Stn.	28	D.28b6.6.	"	-	CRO.
L. Bde. Fwd. Stn.	28	D.16d3.1.	"	-	MGE.

Date 25-10-17

(Sd.) R. Walker

SECRET.

First ANZAC Corps,

26th October, 1917.

ORDERS BY A.D.SIGNALSNo. 7.Warning Order.1. MOVES.

'P' and 'AA' Cable Sections will be transferred from I Anzac Corps to Second Army Signal Company.

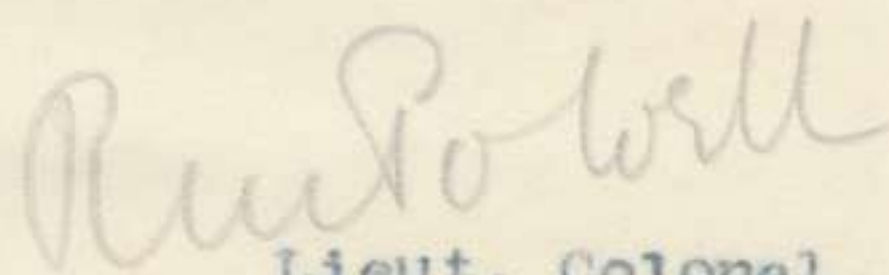
'BN' and 'F' Cable Sections will be transferred from Second Army Signal Company to I Anzac Corps.

2.

The above moves are to be carried out as soon as possible. Detailed instructions will be issued later.

3.

ACKNOWLEDGE.



Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

Distribution:-

	<u>Copy No.</u>
G.C. "K" Corps Signal Coy.	1.
G. i/c Corps Buries.	2.
Area Signal Officer.	3.
I Anzac G.S.	4.
I Anzac A.Q.	5.
D.D.Signals, Second Army.	6.
War Diary.	7.

(70)

SECRET.

First ANZAC Corps,

26th October, 1917.

ORDERS BY A.D.SIGNALS.No. 8.1. MOVES.

Further to A.D.Signals Orders, No.7, of this date:-

(1) 'P' Cable Section (strength - 1 Officer, 33 other ranks, 28 horses) will move from KRUISTRAAT FARM to ZUYTPERNE to-morrow, 26th inst., on transfer from I Anzac Corps to Second Army Signal Company, under arrangements to be made by O.C. "K" Corps Signal Company.

(ii) 'F' Cable Section (strength - 37 other ranks, 28 horses) moves from ZUYTPERNE to KRUISTRAAT FARM to-morrow, 26th inst., on transfer from 2nd Army Signal Company to I Anzac Corps, leaving ZUYTPERNE at 9 a.m.

2. 2/Lt. C. Hedderwick, R.E., will be the officer proceeding with 'P' Cable Section. 2/Lt. P.F.Garner, R.E., now with 'P' Cable Section, will remain at KRUISTRAAT FARM and take over 'F' Cable Section temporarily on arrival of the latter.

3. O.C. "K" Corps Signal Company will report completion of above moves to this office.

4. 'F' Cable Section will gradually relieve 'AA' Cable Section in 'A' Signal Maintenance Sub-area, commencing on the 28th instant. On completion of relief 'AA' Cable Section will be withdrawn to KRUISTRAAT FARM, preparatory to moving to ZUYTPERNE, on transfer to 2nd Army Signal Company, and 'F' Cable Section will be quartered at BELGIAN CHATEAU. Details of relief will be arranged by "K" Corps Signal Coy.

5. ACKNOWLEDGE.Distribution.

O.C. "K" Corps Signal Coy. 1.
O. i/c Corps Buries 2.
Area Signal Officer. 3.
I Anzac G.S. 4.

Lieut. Colonel, R.A.,
A.D.SIGNALS, I ANZAC CORPS.

D.D.Signals, Second Army No.6.
War Diary. No.7.
D.D.Signals.

Appendix
23

Carrier Pigeon Report.

Week ending 27th October, 1917.

3

Birds supplied to 4th Aust. Division.

Date	L O F T	No. of Birds	Date of Return.	Tactical messages.	Practice messages	Without clips.	Empty. clips.	REMARKS.
20/10/17.	57 Horse drawn.	12	8 on 21st. 4 on 22nd.	-	4	8	-	
21/10/17	5 Motor Mobile.	12	12 on 22nd.	-	5	7	-	
22/10/17	24 Horse drawn.	6	3 on 23rd. 3 on 24th.	-	1	5	-	missing.
23/10/17	57 Horse drawn.	6	5 on 24th.	-	-	5	-	1 missing.
24/10/17	5 Motor Mobile.	6	5 on 26th.	-	-	3	2	1 missing.
25/10/17.	24 Horse drawn.	6	6 on 26th.	-	-	-	6	
26/10/17	57 Horse drawn.	6	6 on 27th.	-	-	6	-	

Appendix No. 23

65

Carrier Pigeon Report. Week ending 27th October, 1917.

52

Birds supplied to 5th Aust. Division.

Date.	L O F T.	No. of Birds.	Date of Return.	Tactical Messages.	Practice Messages.	Without clips.	Empty clips.
19/10/17.	58 Horse drawn.	20	17 on 20th. 3 on 21st.	6.	14.	-	-
20/10/17	R.25 Stationary.	20	18 on 21st. 2 on 22nd.	-	4	2	14
21/10/17	19 Horse drawn.	20	20 on 22nd.	-	-	-	20.
22/10/17.	58 Horse drawn	20	2 on 22nd. 16 on 23rd. 2 on 24th.	4	5	11	-
23/10/17.	R.25 Stationary.	20	18 on 24th. 2 on 25th.	2	-	6	12
24/10/17.	19 Horse drawn.	20	4 on 24th. 16 on 25th.	6	-	8	6
25/10/17	58 Horse drawn.	20	10 on 25th. 10 on 26th.	-	12	8	-

Appendix No 23

Appendix No. 24
Appendix 24

1st Anzac Wireless Section.

Australian Divisional Signal Company.

Return of all Wireless and Earth Induction Sets. *to 29/10/17*

To be rendered IN DUPLICATE to A.D. Signals, I. Anzac Corps, weekly (up to and including ~~Sundays~~ **Mondays**).

3

Date 80-10-

(Sd.) Alfred Knapp

2nd F.S. Co., R.E.—2399—500—6-8-17

O.C. Divisional Signal Co.

A. D. SIGNALS,

I Anzac CORPS.

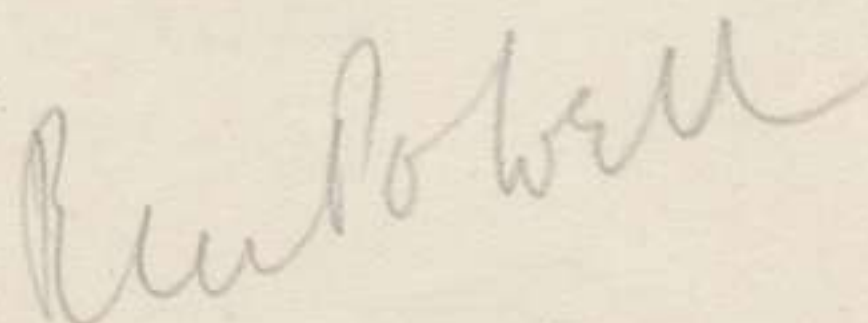
T. 67/1.

Date 30/10/17

I Anzac G.S.

Considerable damage is being caused to Cables running on the inside face of the wall at the Ramparts between the Sally Port and Left Division H.Q. by the numerous stove-pipes now being erected along the wall. The pipes are being fixed against the wall and touching the cables, with the result that the insulation of the cables is being melted with the heat, and the cables destroyed. May the attention of Left Division be drawn to this please, as there is likelihood of communication to and from the Ramparts being seriously endangered.

Particular care is also required in fixing stove-pipes anywhere in or near the mouth of the archway in which the Corps Test Point is situated.



Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

30th October,
1917.

SECRET.

Copy No. 7.....

First ANZAC Corps.

31st October, 1917.

ORDERS BY A.D. SIGNALSNo. 8.1. MOVES.

Reference A.D. Signals Order No. 7 of 26th October,

para. 1 :-

(i) The transfer of 'BE' Cable Section from 2nd Army Signal Company to I Anzac Corps is cancelled.

(ii) A dismounted party of 'AK' Cable Section (strength 1 officer, 13 O.B.) will arrive on 1st November at KRUISTRAAT FARM from II Anzac Corps for temporary duty with I Anzac Corps, and will be attached to 'K' Corps Signal Company. The party will arrive by lorry and be located at KRUISTRAAT FARM.

(iii) 'AA' Cable Section will move from KRUISTRAAT FARM to ZUYTPRENE on 1st November, under arrangements to be made by O.C. 'K' Corps Signal Coy., on transfer from I Anzac Corps to 2nd Army Signal Coy.

2. RELIEF.

'S' Cable Section will gradually relieve 'J' Cable Section in 'D' Signal Maintenance Sub-area, commencing on November 1st. On completion of relief 'J' Cable Section will be located at BELGIAN CHATEAU and take over maintenance of 'A' Signal Maintenance Sub-area. Completion of relief to be reported to this office by O.C. 'K' Corps Signal Company.

Run Powell

Lieut. Colonel, R.A..
A.D. SIGNALS, I ANZAC CORPS.

Distribution:

1. O.C. 'K' Corps Signal Coy.
2. O. i/c Corps Burles.
3. Area Signal Officer.
4. I Anzac C.B.
5. I Anzac A.Q.
6. D.D. Signals, Second Army.
7. War Diary.

(27)

W.32/5.

2/11/17.

A.D.Signals,

1st ANZAC Corps.

is a

The following brief ~~is a~~ summary of the state of Wireless, Power Buzzer and Amplifier communications on this front. Map references where mentioned are Sheet 28.

WIRELESS.

Five stations are in operation as under :-

Station.	Reference.	Call.	Manned by
Army Control Stn.	H.21.d.3.7	DL, CA ¹ , CP	Corps Section
Corps Dtng. Stn.	I.14.b.1.8	HR, PK, MH.	Corps Section.
Bde. H.Q. R.Div.	J.1.d.7.2.	MP, CF, CML.	R.Div. W/T Sec.
Bde.Fwd.Stn.R.Div.	D.28.d.5.7.	YN, DA, DV.	R.Div. W/T Sec.
Bde. H.Q. L.Div.	J.2.a.1.8	ML, CY, CK.	L.Div. W/T Sec.

Good communication is established between all these stations.

The Army control Station has been fitted with 80 ft. masts; and during the course of the next few days will have a $\frac{1}{2}$ k.w. Pack set substituted for the Wilson set at present in use for transmission. Intercept reports are taken on the work between all stations on this Army front. It is also available to act as Corps Rear Directing Station in case of necessity, and is connected by telephone to EN.1 exchange.

The Corps directing station is adjacent to both Right and Left Divisional H.Q. at the Ypres Ramparts. A Wilson Set is used for transmission. A large reserve of stores and accumulators are kept at this station with a sergeant in charge who issues direct on receipt of demands from Div. W/T officers and arranges means of sending stores forward.

One trench set is installed in vicinity of Right and Left Bde. H.Q. (which are adjacent) in Right Div. area, and one at Retaliation Farm, where it is near the head of the buried route and easy of access to Left Battalion and Left Brigade Forward Station.

In Left Division area a Wilson Set is installed at Sans Souci, adjacent to Right and Left Bde. H.Q., and a reserve trench set is kept available at the Left Brigade Forward Station (though not manned) to erect in case of necessity, and communicate with the Wilson Set installed.

AMPLIFIERS.

Communication forward of the wireless sets has been ~~carried~~ carried on by Power Buzzer and Amplifier in each Division. In the Right Div. area, combined Power Buzzer and Amplifier Stations for up and down working are situated as under.

Station.	Reference	Call
Bde.H.Q. R.Div.	J.1.d.7.2	MAJ.
Relay.	J.3.d.3.8.	CBD.
Bde. Fwd. Station	J.4.b.9.9.	MUT.

(51)

The following Power Buzzer and Amplifier Stations are established in the Left Div. area:-

Station.	Reference	Call.
R. and L.Bdes. L.Div.	J.2.a.1.8.	MSM.
Relay	J.3.c.3.9.	CTT.
R.Bde. Forward Stn.	D.28.b.6.6	CRO.
L. Battalion.	D.22.b.5.9.	MGE.

Thus in the Right Div. area alternate chains of Wireless and Power Buzzer communication exist from near the front line to Brigade H.Q., with Wireless back to Div. H.Q., and in the Left Div. area P.B. communication exists from Left Battalion H.Q. to both Brigade H.Qrs., and wireless from there to Div. H.Q.

CHARGING ARRANGEMENTS.

A Corps forward charging station is established at Sans Souci where accumulators from forward Amplifier stations of both Divisions are charged. An electrician from Corps Section has charge of the set which consists of one K.W. Ballot.

The Corps charging ~~station~~ station is installed at the Ramparts with the Wireless Directing Station. A Ballot Set and a tapping from the electric light mains supplies the necessary current. A reserve of accumulators is maintained at this point and minor repairs can also be done when necessary.

The Corps lorry charging set is situated at the Wireless Section H.Q., Stone Siding Ouderdom.

GENERAL.

A considerable amount of business was transmitted while 5th Aust. Div. was in the line; and in the Left Div. area since the 1st Aust. Div. has held it. The excessive amount of jamming, often greatly delayed messages; but conditions have improved since the new orders in respect to unnecessary calling have come into force. Also the re-arrangements of wave lengths will, I think, be a considerable improvement.

A direct telephone line between the Army Control Station and Corps Directing Station has proved of great value. All messages received are taken down by each station, compared over the telephone, and thus the necessity for asking for wireless repetitions of doubtful groups of cipher largely eliminated.

An insufficient number of trained wireless and power buzzer personnel now exist in the Corps and Divisional Wireless Sections, to carry out a scheme of such extent as possible during last active operations; but steps have been taken to train as many operators as possible while Divisions are in rest.

(Sd.) R. WILKINSON, Lieut.
Corps Wireless Officer,
1st ANZAC.

(51)