AWM4

Australian Imperial Force unit war diaries, 1914-18 War

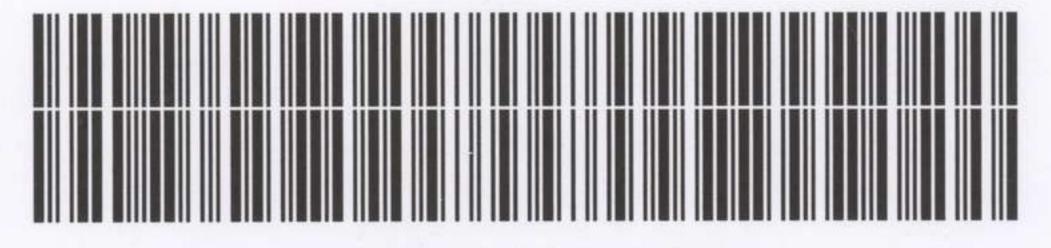
Signals

Item number: 22/1/17 Part 2

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

Signals, Australian Corps

September 1917 Appendices



AWM4-22/1/17PART2

Appendix No 4.3

Second Army.

0.844

D.D.S.

3

20th Sept., 1917.

The Army Commander wishes to convey his congratulations and thanks to you and all under your command for the excellent work that has been done by the Signal Bervice, and which has contributed so largely to the Second Army success today.

(Signed) C.H.HARINGTON,

M.G.G.S. Second Army.

A. D. Signals,

BAR /7689.

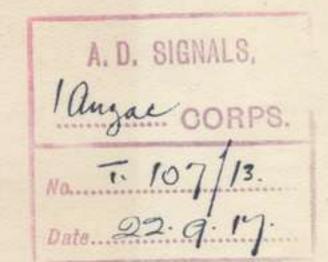
I Anzac Corps.

which is very fratifying to all concerned.

21/9/17.

(Signed) A. HILDEBRAND,
Colonel, R.M.,
D.D.Signals, Second Army.

O.G. let Aust. Div. Sig. Co.
O.G. 2nd Aust. Div. Sig. Co.
O.G. 4th Aust. Div. Sig. Co.
O.G. 5th Aust. Div. Sig. Co.
O.G. "K" Corps Signal Co.
O.G. Corps Heavy Artillery Signals.
Corps Wireless Officer.



The above letter is forwarded for your information.

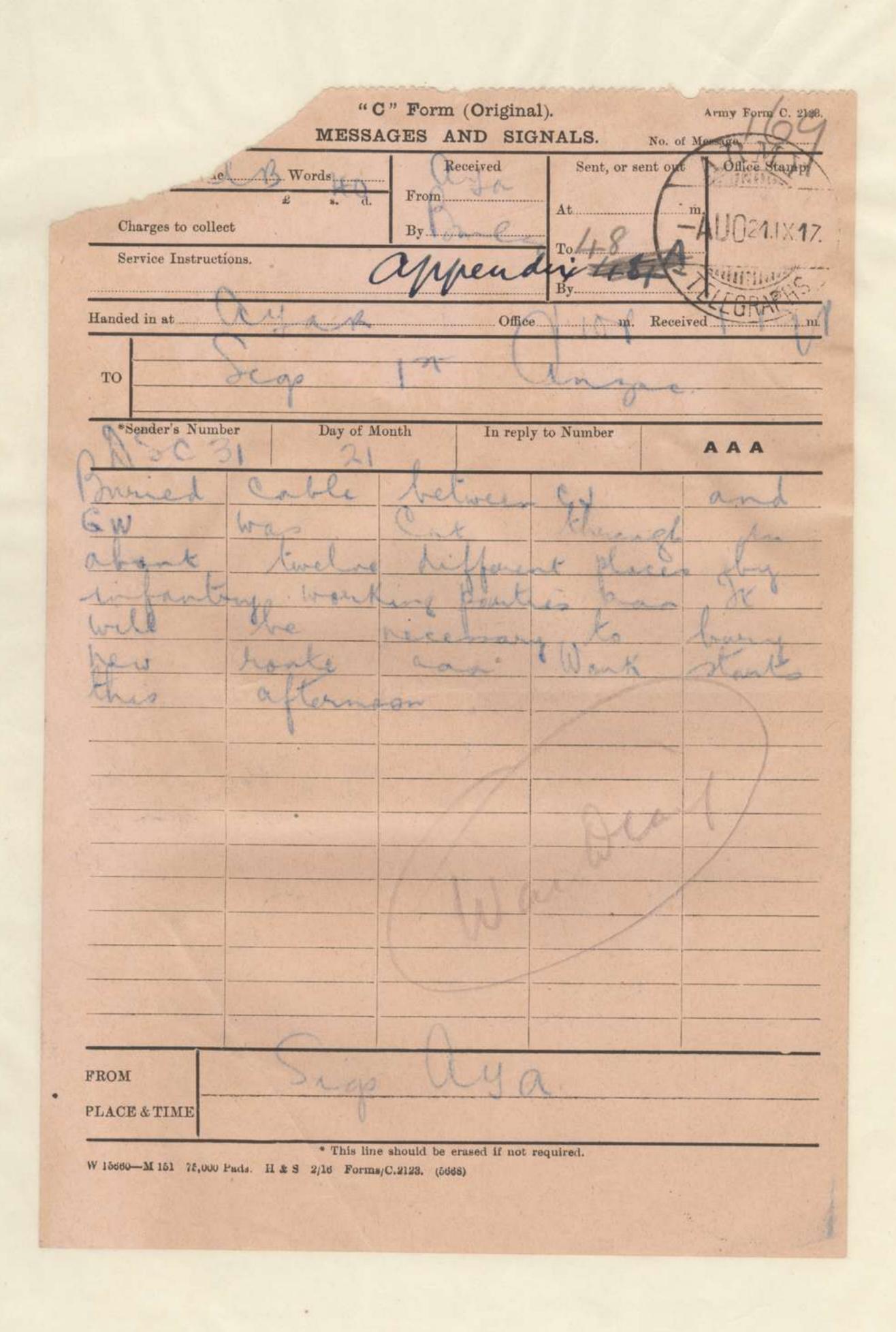
Please convey the Army Commander's congratulations to all

concerned

20nd Sept:

A.D. SIGHALS, I ANZAG COSPS.

10	1 MESSA	"C"	Form VD SI	GNALS. N	Army (I) o. of Messe	Form C. 2123, books of 100.)
Prefix Code	e Words	LIKE	eived	Sent, or ser	nt out	Office Stamp.
Charges to colle	& s. d.	1 17-6		At	1	Alba X
Service Instruct	ions.	ap	per	Toman		m 1 12/
Handed in at	1 VOY	No.	ORG	321	Received	MAS I
	X 1.		Δ		received	The state of the s
то	1-17	0	nv		4	
*Sender's Number	of Dayrof M	onth	In reply	y to Number		AA
110-1	14 21					
TAN	closes	60	DEW	AERSV	ELDE	Eans
Opens	VILLERS	s CH	ATE	Lno	on 1	Compro
1 A A T	Man	19	on	staf		madel
tion	NCO	0.42	of ta	Add.	of 1	AN
dus	DA	Lig	5	Bas	R	- Jo
	- (/ .		0 10	0		
FROM	Dia	/	M	W/		
PLACE & TIME	1		0,0	0		



appendix 49 1st ANZAC CORPS.

Data 22-9-17.

O.C. "K" Corps Signal Co. Corps Wireless Officers O.G. 1st Aust. Div. Sig. Co. O.C. 2nd Aust. Div. Sig. Co. O.C. 4th Aust. Div. Sig. Co. O.C. 5th Aust. Div. Sig. Co. War Diary.

My F.P.T. -

From midnight 22nd/23rd September: -

37, 25, 55, 7, 15, 34, 28.

Her Lieut. Col., R.A.,

A.D.SIGNALS, I ANZAC CORPS.

22nd Sept, 1917.

3

T5134/16

Copy Nappendix Nº 50

First ANZAC Corps,

22nd Sept; 1917.

SIGNAL INSTRUCTIONS No.1. Officerder 50

(Series No.2.)

Issued under G.S. Preliminary Instructions No.1 (Series No.2).

COMMUNICATIONS Part A. (Preparatory).

1. LINES.

(i) The following is the present state of buried cable communications on the Corps front, forward of the test points ID and CJ on the Corps System.

(a) From CJ to GW a buried route of 50 pairs has been

constructed and is working.

(b) From GW to WK the 25 pair buried route which was not completed for the last operation is now being completed.

(c) From ID to WK a buried route of 41 pairs has been

constructed but only 21 pairs are working. WK has been joined to JT by a route of 25 pairs.

(d) From WK a shallow bury of 20 pairs has been constructed to the Brigade Forward Station of the Left Division at ALBERT REDOUBT - J.9.a.5.9.

- (ii) In order to push forward communications for the next operation the following routes will be constructed:-
 - (a) Buried route of 70 pairs from GW to a test point NB now being selected at the S.E. corner of Nonne Boschen Wood. This is being undertaken by the 1st Australian Division.
 - (b) Buried route of 70 pairs from NB to a test point PG now being selected about J.9.a.3.4. This work will be undertaken by Corps Signals.
 - (c) The ID WK route will be strengthened by a new route of 30 pairs, to be undertaken by Corps Signals.
 - (d) The CJ GW route will be increased by a new route of 20 pairs, making 70 pairs in all, if cable is available. This will be undertaken by Corps Signals.
 - PG to connect PG with the two cable heads to be selected by 4th Australian Division. This work will be undertaken at once by the 2nd Australian Division with digging labour from 4th Australian Division/At disposal of 2nd Australian Division. O.C. 4th Australian Divisional Signal Company will select the route according to the positions of cable heads chosen, and will provide technical assistance to O.C. 2nd Australian Divisional Signal Company for the supervision of the work. This route should also join up to the 20 pair route from WK.
 - (f) 5th Australian Division will immediately on going into the line construct a buried route of 50 pairs forward from NB to selected cable head. It is suggested that one cable head should be selected to serve both brigade sectors and be at about J.9.c.8.2, so that the route may eventually be carried forward through the track in Polygon Wood running towards the huts in J.4.c.4.0.
- (iii) All routes will be six feet doep, marked, and joints specially marked.

/(iv)

(iv) Maintenance.

3

(a) Corps Signals will continue to maintain routes up to CJ and ID as at present, routes forward of those points being in divisional maintenance as under:-

Right Division.

C J - G W.

G W - N B.

NB - PG (exclusive of PG).

N B - Cable Head.

GW - WK (as far as Divisional boundary).

Left Division.

ID - WK.

WK - JT.

W K - G W (as far as Divisional boundary).

WK - PG.

P G - Cable heads.

(b) Corps linemen will be stationed to assist divisional linemen at the following test points -

GW, WK, NB, PG.

- (c) All lines on buried system, including divisional routes, will, as heretofore, be allotted by A.D. Signals to divisions, artillery, and certain other units; vide Signal Instructions No.3.
- (d) The instructions contained in Signal Instructions No.3 regarding allotment and use of lines and maintenance will be as stated in Signal Instructions No.3.
- (e) A map shewing the buried routes existing and to be constructed in the forward area is attached.

Divisions will notify the positions of cable heads selected to A.D. Signals as soon as possible.

- 2. VISUAL.

 Divisions will at once prepare schemes for visual signalling in their own sectors, and will select new divisional reading stations if necessary.
- 6. WIRELESS.

 (i) The positions of Corps Directing and Advanced Directing Stations, and arrangements for accumulator charging will remain as stated in Appendix 1. to Signal Instructions No.4.
 - (ii) Divisions will submit schemes for extending the present chain of wireless, power buzzer and amplifier working in their own sectors. A revised Corps Wireless Scheme will then be issued
- 7. The following instructions will be adhered to :-
 - (i) On 1st and 2nd Divisions being relieved by 5th and 4th Divisions respectively, the following W/T, P.B. and amplifier stores only will be withdrawn by outgoing divisions.
 - 2 trench sets, 50 watt, each complete with masts, aerials, 3 10 volt accumulators, 2 pairs 'phones, and earth mats.
 - 2 amplifiers, each complete with 2 pairs 'phones, 6 valves, 3 4-volt accumulators, 10 earth pins and necessary cable.
 - 5 power buzzers, each complete with 3 10-volt accumulators, 10 earth pins and necessary cable.

- 3 -

The balance of the W/T and amplifier stores in the area will be handed over to the incoming divisions and a receipt obtained for same; a copy of the receipt being forwarded to Corps Wireless Officer at earliest opportunity.

Any B.W.T. 3 valve Amplifiers at present in the area will be handed over to incoming divisions.

Arrangements for contact aeroplane wireless will be as laid down in Signal Instructions No.4.

Arrangements as to Wireless Tank will be notified later.

8. PIGEONS.

No.3 (as amended), and No.4.

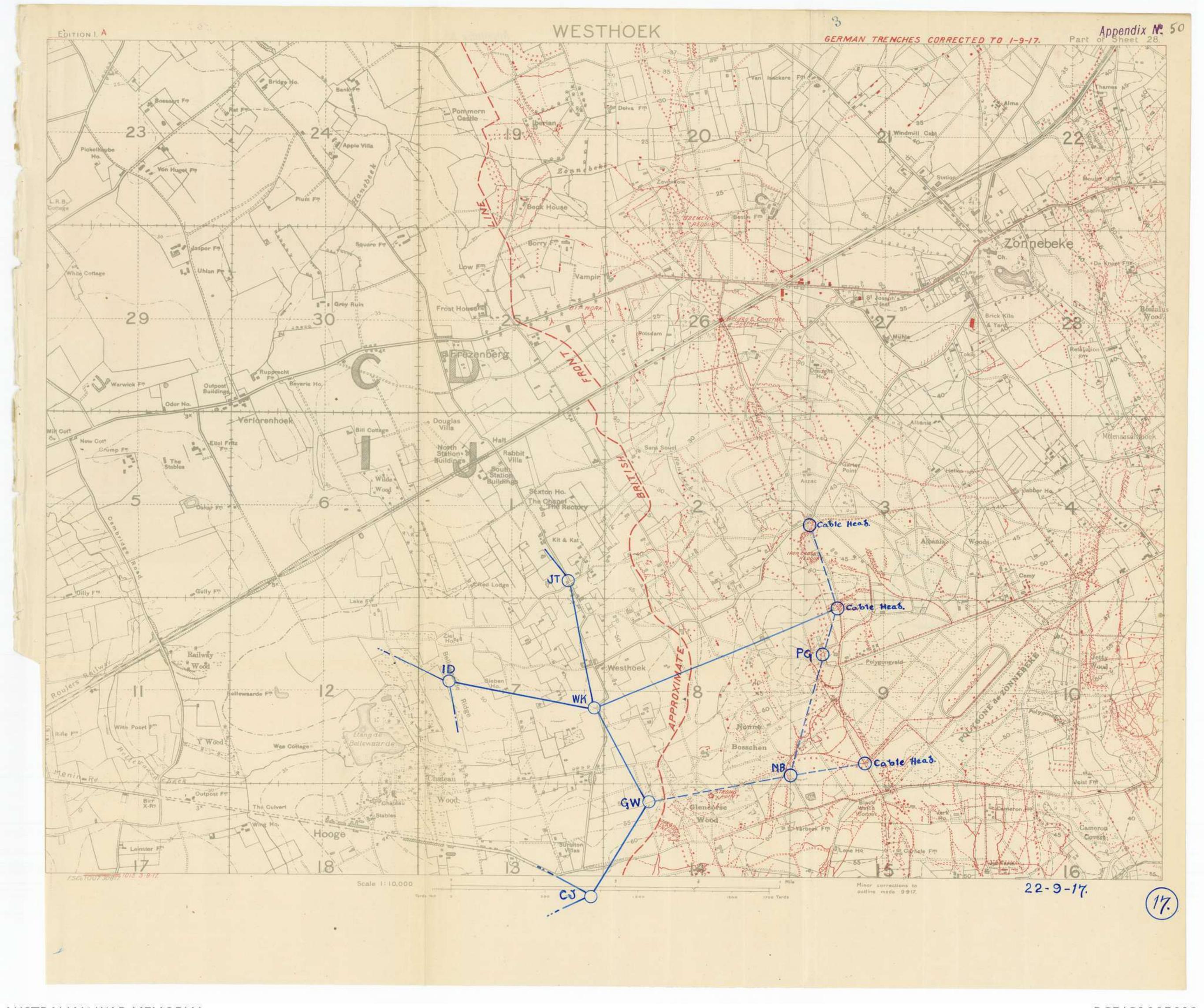
9. GENERAL INSTRUCTIONS.

As laid down in Signal Instructions Nos. 3 and 4.

Am Cowell

A.D.SIGNALS, I ANZAC CORPS.

Distribution: -	Copy No.
O.C. 1st Aust. Div. Sig. Co.	1.
O.C. 2nd Aust. 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 Company.	5.
0. 1/c Signals, Corps H.A.	6.
Area Signal Officer.	7.
Corps Wireless Officer	8.
A.D. Signals, V Corps.	9.
A.D. Signals, X Corps.	10.
D.D. Signals, Second Army.	11.
I Anzac G.S.	12.17-26 and 8 maps.
G.O.C., R.A.	13.
C.M.G.O.	14.
AQ.	15.
War Diary.	16.



Prefix Cod	e Words	AGES AND S	Sent, or sen	tout. Office Stamp.
TOTAL COO	£ s. d.	From an	1 At	
Charges to collect		By (na		The state of the s
Service Instructi	adds (c	appende	Z 5 1	
Handed in at	Cyc	OI	735 73 7	Received 6m.
	Digo	rals	ano	
ТО	Sty	oc to	ano	20
*Sender's Number	Day of	Month In re	ply to Number	
HIVI	87	23/9		AAA
-		10	1111	
ure	Close	Meni	ghel St	10 am
- hasha	1 1	ION BA	14 /2	1 +1
reope	1	127 37	11 (3)	heet twenty
1/2	hor			
Same	2000			
		E-VENT Authoris		
FROM		Dist.	ay	
PLACE & TIME		q	1	8. 45 an

appendix 52

1st ANZAC

T.S./3 9 8

2 0.C. "K" Corps Signal Company.
Corps Wireless Officer.
4 0.C. 1st Aust. Div. Signal Co.
5 0.C. 2nd Aust. Div. Signal Co.
6 0.C. 4th Aust. Div. Signal Co.
7 0.C. 5th Aust. Div. Signal Co.
8 War Diary.

CORRECTION TO B.A.B. TRENCH CODE No.3.

1. The following correction will be taken into use at midnight, September 24th/25th :-

Throughout the Second Army -

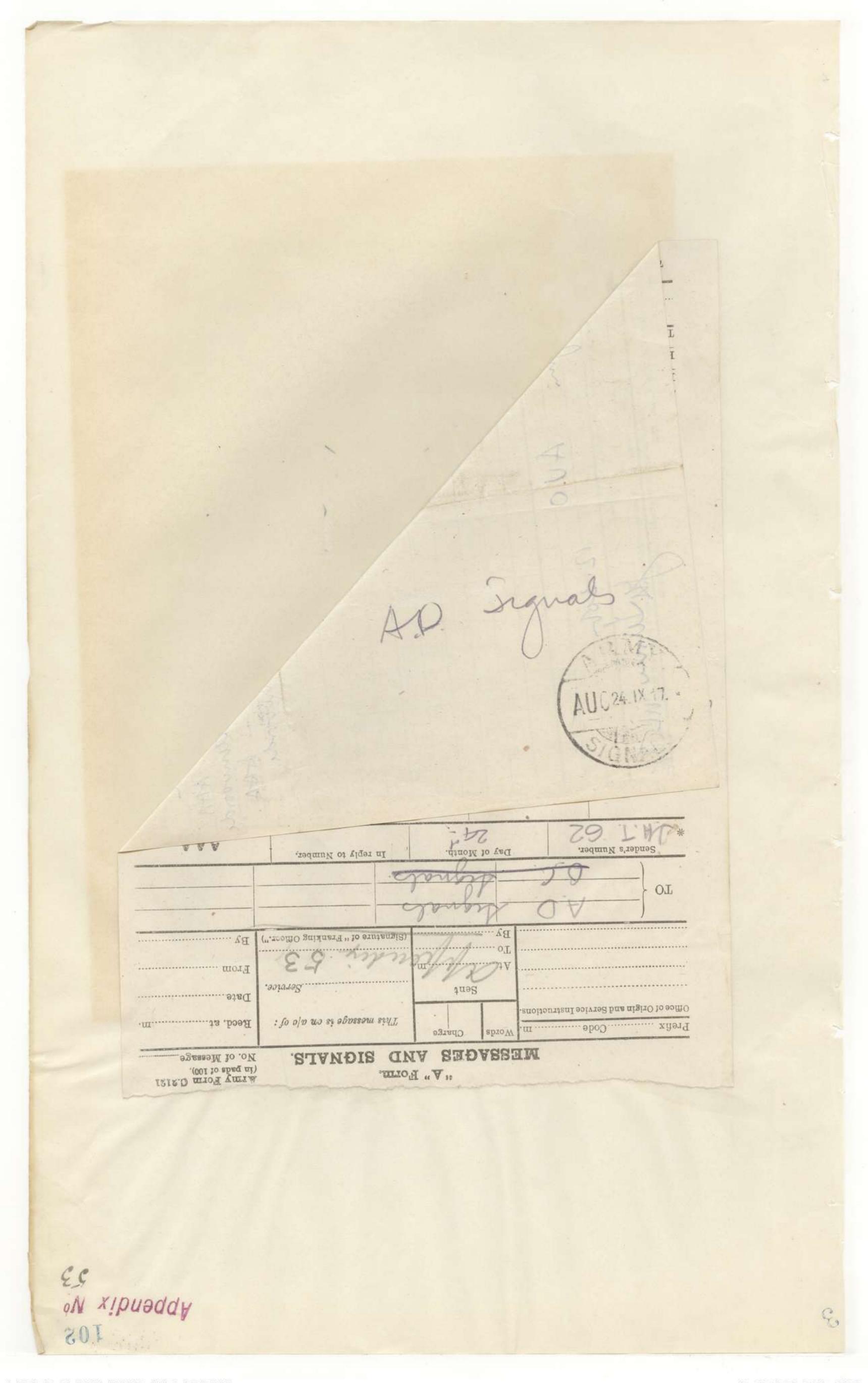
F = plus 44.

2. ACKNOWLEDGE.

Sept; 24th,

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

	MESSA	"A" Form. GES AND SI	GNALS.	(in pads of 100). No. of Message
PrefixC	ode Words	Charge		
Office of Origin and Se		This mess	rage is on a/o of:	Recd. atm.
		Sent	Servic	e. Date
	Atlan	1 Jande	. 43	From
			f"Franking Officer	.") By
	10 1/4	and la		
TO	1	0		
. (000	ignals.		
Sender's Nur	Day of 1	Month. In repl	y to Number,	AAA
				(EN20)
2 nd 0	motor DW	: cloud	at	H2 D3.2
and	Thered	0	lst	wam. AAA
	anson Dw	4 /		Sterwoord
nd mand	6 penedet			m AAA.
121	austr. Di		Stee	nwoorde
at	12.30	hm.		
. 000				
Total Control of the			- 1	
- 1				
		E-Tribulation		
		1		
From	Sign	AUO	2 2 1	
Place Time		t	1.500	
- The above	may be forwarded as now cor	rected. (Z)	Huli	men il Pr
		Censor. Signature of A	NAME AND ADDRESS OF TAXABLE PARTY.	authorised to telegraph in his na
	" Thi 3-M509. H. W. & V., Ld.	is line should be erased if	nor required.	



1st Anzac W/T Section. 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,	
WIRELESS.						
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.		11	NR, PK,	MH.
Bde.H.Q.4th Div.	28	I.1203.5	T.S.	11	ML, CY,	CK.
Reserve Bde.H.Q.	58	I.17b2.8.	T.S.	11	DI, ZW,	DV.
Reserve Bde.H.Q. 5th Div.	28	I.1704.8.	T.S.	**	ZR',PM,	ZB'.
Bde.H.Q.5th Div.	I.1704.8.	I.18b2.6.	T.S.	11	MP, CF,	CML.
AEROPLANE CONTACT PAT	Annual State of State					
Adv. Div. H.Q.	H.27b3,8.	H.27b8.8.	Mk.III Tuner	140		
Reserve Bde. H.Q.	28	I.17c4.8.	Amplifier.	11		
Bde. H.Q.	28	I.18b2.6.		11		
AMPLIFIERS.						
Bde.H.Q.4th Div.	28	I.1203.5.	Amp. & P.B.	-	CAA.	
Relay	38	J.7a3.2.	11	-	CAF.	
R.Adv.Bde.H.Q.	28	J.7d9.8.	***	-	MAH.	
L. " " "	38	J.1d6.2.	***	-	MAJ.	
Bn.H.Q.L.Bde.4th Div.	28	J.2b8.3.	51	-	CBI.	
" R. " 4th Div.	28	J.9a5.8.	**	-	MAK.	
Bde.H.Q.5th Div.	28	I.18b2.6.		-	CRR.	
Relay " " "	28	J.13b2.2.		-	CRI.	
Cable Head. "	28	J.14a5.8.	11		CAS.	
Bn.H.Q. L. Bde. 5th Div.	28	J.8d9.4.		-	CHQ.	
Bn.H.Q. R. Bde. 5th Div.	28	J.14b8.8	11	-	CHG.	

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

(Sd.) Kwalkmon o.c. Mul Divisional Signal Co.

Service Instruc	aB h	1	yh C	Chartes to	
nded in at	1441)		Office	e/ /// ma	Receivedm,
00	412	Light	nals	auc	
Sender's Number	er Day of 1	Month	In reply	to Number	AAA
J	Co	Ry.	W	Louis	tested
iaa	OK	exi.	rept	4	Hair
				No	
OM ACE & TIME	11	Mon	urta	4 6	V /hm

Carrier Pigeon Report. Sent out 25th Sept. 1917

LOFT.	No. of Birds.	Date of return.	Tactical Messages.	Practice Messages.	Without clips.	REMARKS.
24 Horse Drawn. to 4th Aust. Divn.	52	17 on the 26th 32 " " 27th 1 " 28th 2 " 29th *	12	9	31	* Brought by Army Sergt from Strange loft.
57 Horse Drawn. to 4th Aust. Divn.	16	4 on the 26th 11 " " 27th	1	2	12	1 Missing.
58 Horse Drawn. to 5th Aust. Divn.	72	47 on the 26th 17 " " 27th 2 " " 28th	Carried by 8 birds.	34	24	6 Missing.
R25 Stationary. to 5th Aust. Divn.	28	12 on the 26th 7 " " 27th 5 " " 28th 1 " " 29th	NIL	7	18	3 Missing.
5 Motor Mobile. to T.Z.B.	6	4 on the 26th 2 " " 27th	5		1	
5 Motor Mobile. to Heavy Arty.	36	31 on the 26th 7 on the 27th	8 Carried by 11 birds.		25	All birds returned in good condition. I have no trace of these missing birds being liberated, and have hopes of some of them yet returning.

Lieut. Colonel, R.A.

A.D. SIGNALS, I ANZAC CORPS.

Carrier Pigeon Report Sent out 26th Sept. 1917.

LOFT.	No of Birds.	Date of return.	Tactical Messages.	Practice Messages.	Without clips.	R.E M A R K S.
R.25 Statiohary to 5th Aust. Divn.	30	22 on the 27th 7 " 28th		6	23	1 Missing.
5 Motor Mobile to 5th Aust. Divn.	30	23 on the 26th 7 " " 27th	Carried by 4 birds.	8	18	
57 Horse Drawn. to 4th Aust. Divn.	52	26 on the 27th 15 " " 28th 6 "" " 29th	1	26	32	5 Missing.
24 Horse Drawn. to 4th Aust. Divn.	16	10 on the 27th 6 " " 28th		4	12	

All birds are returning in good condition and those missing may yet turn up as they have only been away 3 days. If liberated 4 of them are bound to turn up being old birds.

Lieut. Colonel, R.A.

A.D. SIGNALS, I ANZAC CORPS.

Appendix No 57

Appendix Nº58

A.D. SIGNALS,

1st ANZAC CORPS.

T. 184/10-

Data 1-10-17.

D.D.Signals, Second Army. I Anzac G.E. War Diary.

The following supplementary report shewing work done by Wireless, Power Buzzer and Amplifier during the offensive operations of September 26th is forwarded for your information:-

WIRELESS.

The Corps Wireless Directing Station and Advanced Directing Station were in same position as for the operations of the 20th inst., and also the Trench Wireless Sets in the Right Division; but on the Left Divisional front three wireless stations were installed instead of two. One was maintained at Reserve Brigade H.Q. at Birr X Roads, one at Left Brigade H.Q., J.1.d.7.l., and the third at Right Brigade H.Q., J.7.d.9.9.

All the trench sets were in constant communication with the Corps Directing Station and all messages handled, averaging twelve per day, were transmitted in good time. In this connection it is interesting to note that the average speed of total transmission, including end phering in Playfair, sending and deciphering, reached an average of two words per minute for all the messages handled by wireless during the Bullecourt operations (May 3rd to 20th) while now, using the Field Cipher and having to cope with less proficient operators at Divisional Stations, it is in my opinion impossible to attain an average of morethan 15 words in 12 minutes. This necessarily slow rate is very detriment to the utility of wireless, especially as this means is principally provided for emergency messages.

AMPLIFIERS AND POWER BUZZERS.

Stations were considerably altered from those of the previous operations. In the Right Divisional area, a chain of power buzzer communication from the forward wireless station at Brigade H.Q., HOOGE, to the cable head at J.9.c.8.3. With intermediate relay stations at J.13.b.2.2 and J.14.a.5.8, was provided.

Two mobile power buzzers and amplifiers were kept in readiness at cable head to move forward with the "A" detachment of brigade forward parties after attack.

Power buzzers and amplifiers were combined at all stations and no trouble was experienced in maintaining good communication between them.

In the Left Divisional sector: power buzzers and amplifiers were installed with each of the forward wireless stations at right and left Brigade H.Q., each working to their respective cable heads J.9.a.4.4. and J.2.b.9.1. A mobile combined amplifier and power buzzer set was ready at each of these latter positions to go forward to Brigade Forward Stations after attack.

These were in every respect the same as provided for the previous operation of 20th instant, and were entirely satisfactory.

- 2 -

DURING BATTLE.

The mobile power buzzer and amplifier sets held a previous to zero at the various cable heads were installed successfully and without casualties, one at each brigade forward station in the positions as shewn on accompanying map diagram.

In the Right Division great difficulty was experienced in maintaining the earth leads, but no long interruption occurred in communication and a considerable number of messages were handled by this means.

In the Left Divisional area, the Amplifier and power buzzer with Left Brigade forward station, although in good communication, was hardly required: but at the Right Brigade Forward Station, the power buzzer and amplifier installed there was the only means of communication used for the 36 hours after zero, and no interruption occurred in its utility.

GENERAL.

The organization of wireless and power buzzer and amplifier stations has worked far more smoothly during these offensive operations than during those of September 20th. Carrying parties are the only thing that have given any real trouble. Definite arrangements for these must be made in Preliminary Instructions and carried out.

Casualties of apparatus have been comparatively light. Two amplifiers, three power buzzers and about eighteen accumulators having been lost dubing and since the battle.

A difficulty has arisen in the new organization of divisional control. Since an officer has been definitely detailed for wireless duties in each division, there appears to be a tendency for Brigade Signal Officers and their assisting officers to entirely shelve the responsibility of looking after the amplifier stations in their areas on to the wireless officer. With the large number of amplifier stations in each division, the work of the divisional wireless officers has been very considerable; particularly as there are not enough N.C.O's in the establishment of the wireless section to place one in charge of each station. Brigade Signal Officers must realize their responsibilities and duties in this respect.

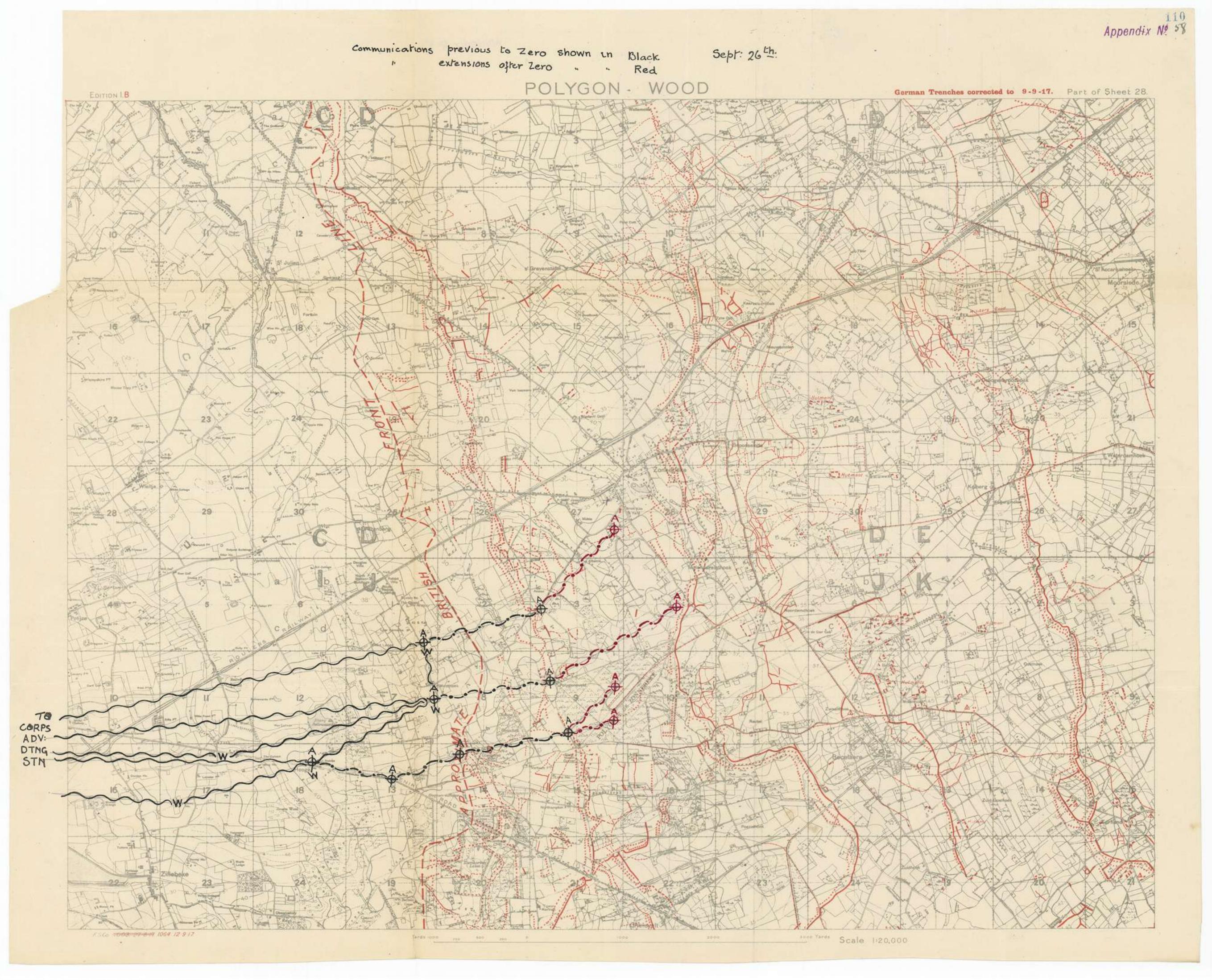
The supply of wireless instruments and stores has been adequate, and no trouble has been experienced in replacing damaged or destroyed apparatus during wither of the operations so far. A very large proportion of valves have been found to be unservice—able on arrival at forward stations though tested before being sent up. It is difficult to impress on carrying parties the importance of careful handling, especially when shelling is heavy. In this connection, it is thought that the mechanical construction of the electrodes of the valve might with advantage be made more rigid.

Lieut. Colonel, R.A.,

A.D.SIGNALS, I ANZAC CORPS.

1 Sobul

1st October,



3 appendix 1.59 CONFIDENTIAL. 1st ANZAC T.C. 6/3 27-9-17. O.C. 7th Div. Signal Company. D.D. Signals, Second Army, (for information). I have to-day sent back to you the jointing party under Corporal Hodgson which you kindly lent me. I should like to express my appreciation of the excellent work done by this party, especially by Corporal Hodgson, Sapper Furzer, and Sapper Cooke. on the 24th instant, in particular, these men worked all day at Glencorse Wood to get a route completed, remaining at their task without a break, and finally finishing up jointing in a shell hole by candle light. On the 25th instant they jointed up a route under very heavy shell fire, having also to carry up extra cable to let in to a break, and remainded at their work till it was completed. I have brought the names of the three men mentioned above to notice. 1 1 10 bell Lieut. Colonel, R.A., A.D.SIGNALS, I ANZAG CORPS. 27th September,

AUSTRALIAN WAR MEMORIAL

appendix 60

Appendix 50 60112

Copy. No. 23. SECRET. First ANZAC Corps, 30th September, 1917. * * * SIGNAL INSTRUCTIONS No.1. (Series No.3.) Issued under G.S.Preliminary Instructions No.1 (Series No.3). 1. LINES. (i) The following routes have been completed in the new Corps forward area :-(a) Buried route of 70 pairs, ID to JT. (b) Buried route of 70 pairs, JT to AZ (J.2.d.9.8) (c) Buried route of 42 pairs, AZ to GP (Garter Point J.3.a.cent:) thence from GP to test point AL (J.3.a.9.9) thence to D.27.d.6.5, at which latter point it is at present left unterminated. (ii) To complete preparations for next operations, the following construction work will be undertaken forthwith :-

(a) Buried route 25 pairs from JT to SAMS SOUCI (SS) J.2.a.3.6, thence to Brigade H.Q. at railway D.26.c.1.3 (LR). To be constructed by 2nd Australian Division.

(b) Completion of AZ - GP - AL route to TOKIO (TK)/where it will be led in and terminated to serve as cable head for Left Division. To be constructed by 2nd Australian Division.

- (c) Buried spur of 20 pairs from towards HELLES (HL) to point to be selected by kight Division at their cable head.

 To be constructed by 1st Australian Division.
- (iii) It will thus be seen that the main forward route will run from Y RB BX ID JT AZ GP, carrying communications of Right and Left Dividions and Heavy Artillery. At GP the route will divide to cable heads (HL and TK) for Right and Left Divisions respectively. Alternate routes available will be BX HO ID, and HO CJ GW WK JT also WK PG AZ.
- (iv) 2nd Anzac Corps are constructing a buried route of 35 pairs from BV test point on their buried system to JT.

A revised map shewing above routes is attached.

- (v) Maintenance. Division of maintenance will be as under.
 - (a) Corps Signals will maintain the system as far forward as JT and WK, including the JT WK route and that portion of the WK GW route in this Corps area. Routes forward of JT and WK will be in Divisional Maintenance as under.

Right Division ... WK - PG.

PG - AZ.

GP - HL.

Left Division ... LR - JT.

JT - AZ.

AZ - GP - TK.

. Right Division will assist Left Division in the maintenance of AZ - GP route.

/(vi) ...

(vi) Allotment of Lines

- (a) Attention is called to para.l(iv)(c) and (d) Signal Instructions No.1, Series No.2, of 22nd September.
- (b) Preliminary allotment of lines in new buried routes will be as follows :-
 - ID JT ... Right Division ... 15 pairs.

 Left Division ... 15 pairs.

 Heavy Artillery... 10 pairs.

 Remainder in reserve.
 - JT AZ ... Corps (including H.A.).. 20 pairs.

 Right Division ... 15 "

 Left Division ... 15 "

 Remainder in reserve Left Div. allotment.
 - AZ GP ... Corps (including H.A.).. 10 pairs.
 Right Division ... 15 "
 Left Division allotment.
 - GP TK ... Corps (including H.A.).. 15 pairs.

 Left Division ... 15 "

 Remainder Left Division allotment.
 - GP HL ... Corps (including H.A.) 5 pairs.
 Right Division ... 15 "
 Right Division allotment.
 - LR JT ... Reserved for 2nd Anzac Corps 5 pairs.
 Remainder Left Division allotmont.

Any spare circuits on WK - PG, and PG - AZ routes beyond those already in use, will be in Right Division allotment.

- (c) O.C. Divisional Signal Company in whose allotment the proute falls will notify numbers of circuits allotted in accordance with the above to A.D.Signals by wire on receipt of this order. Applications for additional circuits on routes on which allotment has already been made will be submitted to A.D.Signals.
- (d) Right Division will notify position of Cable Head selected to A.D. Signals as soon as possible.

2. VISUAL.

Divisions will at once prepare schemes for visual signalling in their own sectors, and select new divisional reading stations.

3. WIRELESS.

- (a) Positions of Corps Directing Station and Advanced Directing Station will remain as at present; vide Appendix I to Signal Instructions No.4 of 17th September. The Corps Directing Station at EN.20 will, however, also act as Army Control Station.
- (b) Divisions will submit schemes for wireless, P.B. and amplifier communications in their own sectors. A revised Corps Wireless Scheme will then be issued.
- (c) Only such instruments as are specified in para.7(i) Signal Instructions No.1, Series 2, of 22nd Sept., will be taken out of the line by 4th and 5th Australian Divisions on relief. Remainder will be hamled over under arrangements to be made by Corps Wireless Officer.

/(d)...

(d) Contact Aeroplane Wireless Stations will be established for next operations at following places only:-

1 set Reserve Bde. H.Q., Right Division. 1 set Reserve Bde. H.Q., Left Division.

- (e) Arrangements for Wireloss Tank will be notified later.
- 4. PIGEONS
- 5. GUNERAL.
- 6. CONTACT AEROPLANES.

As laid down in paras.4, 5, and 6 respectively of Signal Instructions No.2, Series 2, of 24th September.

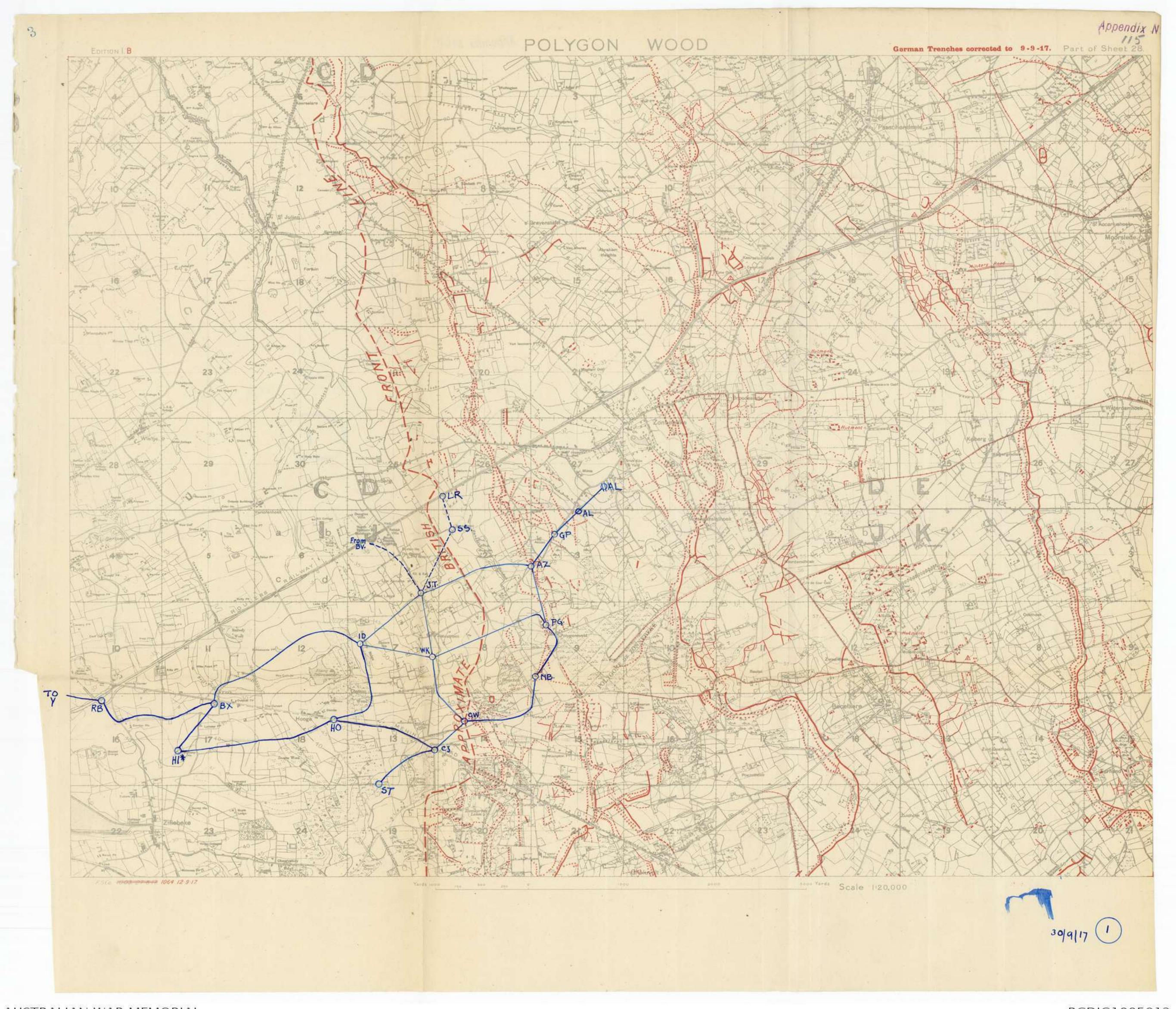
7. ACKHOWLEDGE.

Muito with

Lieut. Colonel, R.A.,

A.D. SIGNALS, I ANZAC CORPS.

Distribution.	Copy No.
C.C. 1st Aust. Div. Sig. Coy.	1.
O.C. 2nd Aust. Div. Sig. Coy.	2.
O.C. 4th Aust. Div. Sig. Coy.	3.
O.C. 5th Aust. Div. Sig. Coy.	4.
O.C. "K" Corps Signal Company	. 5.
O. i/c Signals, Corps H.A.	8.
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.



Appendix Nº 6116 SECRET. 2.5.169/6 O.C. "K" Gerps Signal Company. Corps Wireless Officer. A.D. Signals, II Anzac Corps. D.D. Bignals, Second Army. I Anzac G.S. (for information). War Diary During the next operations Contact Aeroplane Fireless Stations will be erected at the Reserve Bdo. Meadquarters in each attacking division. Corps Wireless Officer, I Anzac Corps, will send the following to report to A.d. Signale, II Amzac Corps, as seen as possible t-4 R.F.C. Wireless Operators and l complete station with apacial stores as under 1 Mark III Tumor. 1 5-velve H.F. Amplifier. 2 4-ft. special folding musts. serial wire. accumilators. H.Y. Batteries. Btc. C.C. *K* Corps Signal Company will arrange necessary transport ACKNOWLEDGE. Lieut. Colonel, R.A., A.D. BIGHALD, I A.H.Z.A.I. 30th September, 1 9 1 7.

additional appendix 17 HISTORY OF 1st ANZAC CORPS SIGS. NEW BURIED ROUTES. The new buried system of the 1st Anzac Corps was commenced on 5th September, 1917. The whole scheme, approximate by 6 miles, was dug by the 1st and 3rd New Zealand Rifle Batts. and was finished by the morning of 14th Sept., so far as the actual digging was concerned. The task was divided between the two Batts. as follows. 1st Battn. dug the trench from Y to RB, BX to HH and HI, HH to HO, and HO to CJ. The 3rd Battn. dug from RB = ID and ID to HO. The cable trench holds 54 pairs thro' the system except between HO and CJ, where a 100 pairs were put in. Between RB and HG, 28 extra pairs were laid, and between HH and HI on the existing route 60 pairs were laid, so that the old route between Y and YP could be connected. The proportions of cable in the 54 pair routes are as follows :-6 - 7 pair (partly armoured and partly brass sheath). 6 - quad (armoured). The 100 pair route consists of ;-12 - 7 pair brass sheath cable. 8 - quad armoured. The 28 pairs from RB to HG -4 - 7 pair brass sheath cable. The jointing and marking of all routes was done under the direction of 2/Lt. Paul, R.E., and was carried on at the same time as the digging, so far as possible. 2/Lt. Hare, R.E., was responsible for the leading in of all routes to the various test boxes and dug-outs. Two cable sections were attached to each battalion and they were responsible for the laying of the cable. BD Cable Section under 2/Lt. Starbuck, R.E., and J Cable Section under 2/Lt. Hedderwick, R.E., were with the 1st N.Z.R.B. AT Cable Section under 2/Lt. Jackson, R.E., and P Cable Section under 2/Lt. Helmsley, E.Surrey Regt., were with the 3rd N.Z.R.B.

Route Y - RB. (lst N.Z.R.B.)

This route was commenced on the morning of 5th Sept. 1917, and about 400 yards were laid. Across the moat layers of sandbags have been **s**d placed on the cable to form a protection against shell fire. Average depth of trench in Ypres is 6 ft. From the Moat to RB the average depth is 5'6" and was completed on the night of the 6/7-9-17.

The route has been "crumped" twice on the one day. The shell holes were about 10' deep. Position of breaks - one on the railway cutting, and one 60 yds. East of RB. Since then there has been no trouble.

/Route...

Route RB - BX (3rd N.Z.R.B.)

This route was dug on 8th and 9th Sept., 1917. It was commenced from the BX end. Average depth 5'6". Composition of cables is the same as Y - RB.

Up till the present this route has not been crumped. 28 pairs have been laid between RB and HG box on existing route.

Route BX - ID (3rd N.Z.R.B.)

Commenced on night od 5/6-9-17 from ID. The digging was very difficult on this part of the route owing to the bad ground. The area is very badly shell-holed and at the time of digging these were full of water. Pumps were used freely and with great success. At the BX end the ground is worse to dig than at the ID end, but the average depth was maintained at 5'6".

Fourteen pairs were lost between I.12.c.8.7 and I.12.a.3.1, so a new trench was dug and 2 7-pair cables were put in. This route has been cut once by a "dud" shell which penetrated about 10 feet into the ground; this happend at I.11.d.1.2 before the route had been completed. Since then it has been hit in several places but has not "gone down".

Route BX - HH (1st N.Z.R.B.)

Commenced on night of 7/8-9-17 and finished 8/9-9-17. This is a 54 pair route of the same composition of cables as the others. An extension of 60 pairs has been made to the old HI box and the old route has been connected up so that it can be controlled from HH box. The route was cut by a shell before the jointing was completed. Since then it has been thro' all the time.

Route ID - HO (3rd N.Z.R.B.)

Commenced on night of 9/10-9-17 and finished 10/11-9-17 Digging was commenced from HO end. It was tried to drive a way thro' Chateau Wood but this was found to be impossible owing to the tree routes and water. The route was brought on the east side of the wood thro' very wet ground. The average depth in the valley is 4'6". A greater depth was impossible owing to the water which rose in the trench as sonn as it was dug. On the high ground at ID and HO the depth averages 5'6". This route has been cut three times; twice at the door of HO dug-out, and once ### about 100 yds. from HO.

Route HO - CJ (1st and 3rd N.Z.R.B.)

This route was dug partly by the 1st and 3rd N.Z.R.B., and was done on night of 13/14-9-17. Average depth 5 feet. The ground is very bad from HO to the D/2 entrance to the tunnel. From D/2 entrance to CJ was laid by the Bde. in the tunnel. 100 pairs buried.

In the open this route has not been cut, but at HO dug-out entrance it has been cut twice. Considerable difficulty was experienced in the jointing owing to the heavy shelling of the area.

Route HH - HO (1st N.Z.R.B.)

were laid. Average depth 5'6". Route has been out once at HO end.

The 3rd N.Z.R.B. dug 220 wards of the trench at the HO end. This route has not been cut since the first time.

During the actions of the 20th and 26th Sept., 1917, the buried systems stood well. Communications

Route GW - NB - PG.

forward were thro' at these dates.

A new 70 pair route between the above points was put in by the 4th N.Z.R.B..

It was commenced on 22/23-9-17 from PG - NB.

Average depth was 5 feet.

on 23/24-9-17, NB - junction with 5th Div. bury

from GW was completed.

put in at the 3 boxes mentioned and the lines tested well.
Only three pairs were lost right through. On the
morning of 26-9-17 these routes were blown out between
J.14.b.3.4 and NB so that it could not be repaired. Three
hundred yards forward from NB the same thing occurred.
These routes are now out of commission.

Route GW - WK.

Twenty-six pairs were laid by the 4th N.Z.R.B. to join up with Divl. bury from WK on night of 24/25-9-17. Average depth 5'6". Route tested out and put on boards 25/9/17. No trouble has occurred so far on this route.

Route ID - JT - AZ.

Seventy pair route dug by 4th N.Z.R.B. commenced 26-9-17. Average depth 5 feet. Digging started from ID end. JT to AZ was done 27/28-9-17. Average depth 5 feet. These routes tested out well, only four pairs being lost. Up till now (3-10-17) the routes have not been cut.

The jointing and wiring up of the dug-outs on the routes forward of ID was done under the supervision of 2/Lt. McMurray, R.E.

I am, Sir,

Your obedt. servant,

(signed) Robt. McMURRAY,

2/Lt. R.E.

EN.1. 3/10/17.

