AWM4

Australian Imperial Force unit war diaries, 1914-18 War

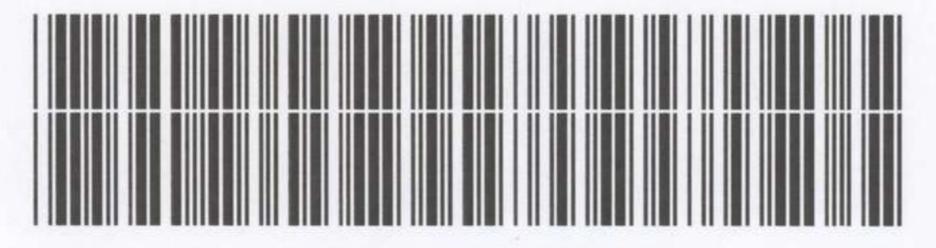
Engineers

Item number: 14/11/13

Title: Headquarters 5th Australian

Divisional Engineers

June 1917



AWM4-14/11/13

2022

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.

INTELLIGINOE SUMMARY.

Sheet 1.

Place Date Hour June	Summary of Events and Information	Remarks and references to Appendices
SANCOURT 1st. 35.c.5.5 (Sunday) heet 57c rance /40,000.	May 28th. 1917. Men are working 4 hours a day either on DEFENCE LINE or ROUTE MARCHES the remainder of the day being taken up with short lectures on MARCH DISCIPLINE and	* App.1.
2nd.	DISCIPLINE generally and inter-company football & cricket matches. Reports received from FIELD COS. on "WORK DONE NN CORPS SECOND LINE FOR PERIOD 30/5/17 TO 2/6/17" Full report compiled from these and forwarded to DIVISIONAL HEADQUARTERS.* A.I.F. Orders received with Lists 179 & 181. Lieut. J.P. Caddy to be Captain vice REID transferred dated May.6th.1917. List 179. Lieut.S.R. MALLÄRKY is placed on Supernumary List dated May. 9th. 1917, List 179. 2/Lts.E.O.K.GREEN & G.H.TURNER to be LIEUTS. dated May 14th. \$	* App.2.
	erection of entanglements of this line are being salved from along BAPAUME - ALBERT Rd	

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Place Date Hour	Summary of Events and Information	Appendices
ANCOURT .35.c.5.5. heet 57c /40,000	and brought forward by decauville to HARVEY SIDING H.29.b.5.3. where it is within easy reach.of parties working on the DEFENCE LINE. LIGHT RAILWAYS are providing four large well wagons daily for this purpose; loading & unloading party of 20 men has been obtained from 8th. Infty. Bde. and these are working under an N.C.O. of 8th.Field Coy. The following Officers arrived from Cadet Battalion; - 2/Lieuts. F.DOBLO, G.BURROWS, and A.T.EWART and were posted by C.R.E. to 8th., 14th. & 15th.Field Cos. respectively. Received notification from D.H.Q. that authority has been given by Q.M.G. for the retention of 1 blanket per man during the summer months *	
4th.	Work continued by Units on CORPS SECOND LINE. 1 Officer, (Lt.NANGLE, 8th.F.Co.) and 9 O.R. left at Midday for 10 days leave to U.K.	
5th.	Work during morning as follows; - 8th.Field Co. Route march with transport, lewving Bancourt, route as follows; - To BAPAUME thence along main road to LE TRANSLOY to VILLERS AU FLOS and back to BANCOURT - distance 7 miles. 14th.Field Co. DEFENCE works in H.36.d.Central. 15th.Field Coy route march with transport - leaving camp FAVREUIL 9.30 a/m, proceeding to H.27.d.5.8. thence along earth track to BANCOURT ROAD, passing through BANCOURT thence across CAMBRAI ROAD, thence across Railway Line in H.23.a., thence back to camp H.16.central. KING'S BIRTHDAY HONOURS. published in "THE TIMES" of June 4th. Amongst COMPANIONS OF DISTINGUISHED SERVECE ORDER were Lt-Col.A.B. Carey and Major H.Greenway. Return forwarded to D.H.Q. shewing Officers & O.R. who have not been granted leave to ENGLAND and who have had the following periods of service in FRANCE or EGYPT, 18 months or over, 12 months & less than 18 months, 6 months & less than 12 months. Under authority of WAR OFFICE Letter 79/9775 dated 9/5/17 the number of MEKOMETERS" to be held by FIELD COS. has been reduced from 4 to 1 per Coy. Up to date the Cos. have found no use for these instruments in the Field. Under same authority "LEVELS POCKET Mk.4" have been increased from 1 to 4 per Field Coy. Lt-Col. CAREY returned from 1st.ANZAC CORFS H.QRS. during afternoon, and has ceased	

or

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INTELLIGENCE SUMMARY.

Sheet 3.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ancourt .35.c.5.5 heet 57c rance 1/40,000	June 5	Hour	duties at Corps as Acting Chief Engineer. Major H. Bachtold M.C. returned to 14th. Field Coy. from Acting O.R.E. Field Cos. at work on Corps 2nd. DEFENCE LINE during each morning. The afternoon being taken up with lectures and sports. Saturday 9th. 5th. Divl. Engineer Sports held at BANCOURT in the afternoon, programme lasting from 3 p/m until 8 p/m. On 10th. all work under construction on DEFENCE LINE was finished and any new work spitlocked, the intention being for all units to give more time to training. Works Report on state of CORPS SECOND DEFENCE LINE compiled for D.H.Q. from report sent in by Brigads, Field Cos. and Pioneer Battalion. 1 Officer (Lieut. Oliver, 15th.Field Co.) and 8 O.R. left for 10 days leave to England Cos. wired that arrangements should be completed to enable them to move at a moments notice. C.R.E. memo 14/69/8 issued to Field Cos. and Pioneer Battalion with reference to construction of Fire Bays and Wire Entanglements in DEFENCE LINES * During morning Cos. occupied as follows: Sth. Field Coy. Company & Section Drill.	Appendices
	13	3 pm	14th. Field Coy. Route March. 15th. Field Coy. BIEFVILLERS DEFENCES. Received warning order from Division that Divl. Engineers and 5th. Pioneer Bn. will move into SENLIS AREA on 17th. inst. C.R.E. arranging for Field Cos. to be billeted at DAOURS, CORBIE or BRAY with view to Bridging and Pontoon Training on the SOMME during the period that the Division is in that Area* Received 5th. Aus. Div. Order 152 with reference to relief by 2nd. Aus. Division, and move to SENLIS Area. Para 4; "C.R.E. will arrange relief of Field Cos. & Pioneers	* App.
	14		ENGINEER ORDER NO.6a. issued by C.R.E. Cos. to move on 15th.,16th. & 17th. June. * Dismounted Personnel by Rail from BAPAUME TO VARENNES and Transport by Road. Instructions received from D.H.Q. that all work under construction on VILLERS AU FLOS-BANCOURT - BIEFVILLERS Defence Line should be completed today and all new work to be marked out and spitlocked. Remainder of time in this area to be taken up with training. Cos. carrying out company and section drill in morning and inter Coy. Sports during afternoon A7092). Wt. W12839/M1293 750,000. 1/87. D.D &1 Ltd. Forms/C2118/14.	

or

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INTELLIGENCE SUMMARY.

Sheet 4

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
ancourt	15		8th. & 15th. Field Cos. Training. 14th. Field Coy. moving to MILLENCOURT. Transport by BAPAUME ALBERT road with 14th. Infty. Bde. Dismounted personnel by rail from BAPAUME 8th. Field Co. Moved to SENLIS and to be billeted there with 8th. Brigade GROUP.	
UBEMPRE	17		C.R.E. Hdqrs. moved to RUBEMPRE in morning relieving C.R.E., 2nd. Aus. Div.	
heet 57d	18		C.R.E. obtained sanction of C.E. 1st. ANZAC to move Divi. Engineers to CORBIE for training and Pontooning and Bridging Work. Engineer Order No.7 issued to Field Cos.*	* App 8.
/40,000			Lieut-Col. Carey left for G.H.Q. during afternoon to attend bridging conference on morning of 19th. taking with him design of "DECKING FOR PILE OR TRESTLE BRIDGE TO	* App 9.
	19		TAKE LORRY TRAFFIC"* Advanced Parties of 1 Officer and 5 O.R. from Each Coy. were sent to CORBIE to atrange details as regards billeting. Area alloted by TOWN MAJOR is western end of town all details as regards billeting.	
			billets being just on Northern side of RUE QUATRE SEPTEMBRE. No other troops at present billeted in the town and room allowed is ample. Lieut-Col. Carey returned from conference at G.H.Q. Hdqrs. & Field Cos. of Divl.	
	20		Engineers moved to CORBIE during morning and all troops placed in pillets by hoon. TO ANGROPE LINES for 3 Cos together on RUE GAMBETTA at Eastern edge of town. During	
		N. F	afternoon companies selecting sites on river SOMME for carrying out Pontooning. 8th. & 14th. Field Cos. to work up stream from LOCK and 15th. Fd.Co. down stream. 15th. Fd.Co. sent party under an officer to take over 10 pontoons and superstructure from 1st. Aus. Div. at BRAY in morning. These were brought down by river arriving	
	21		at CORBIE during evening.	
	E.L		by 8th. & 14th. Field Cos. All Cos. training during day, pontoon bridges being put across river and detachments rowing in lagoons at side of river. C.R.E. Headquarters moved from No.46 Rue 4 Septembre to more suitable place at No.16	
	22		LA PLACE. Held Cos. working 8 hours daily on river; bridges being put across river both by method of "Forming Up" and "rafting" and all men being put through course of rowing	March
	to		method of "Forming Up" and "raiting and all all months of the state of	0. 14

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INTELLIGENCE SUMMARY.

SOMME	26	C.R.E. arranging to build "wharf" for unloading river barges at site on down stream side of lock. ENGINEER IN CHIEF asked to supply pile driving gear and permission obtained fro local authorities to cut trees near site for piles. Engineer Order No.8 issued with regard to Inspection by G.O.C. Division tomogrow, 27th.* inst. Inspection by G.O.C. Division at 10 a/m. Companies complete with transport drawn up at Bridging Site, 1100 yds. down stream from On completion of inspection of personnel and transport by G.O.C., four Pontoon Bridges were constructed by Field Cos., two across Lagoon - one each by 8th. & 14th. Field Cos. and two across canal by 15th. Field Coy. 8th. Field Coy. bridge consisting of one WELDON TRESTLE and 8 PONTOONS completed in 16 minutes. 14th. Field Coy. Bridge consisting of 10 Pontoons completed in 15th. Field Coy. Bridge of 5 Pontoons across cana, 1 completed in 6 Field Companies Personnel and transport marched across bridges over both lagoon and		10
	27	Inspection by G.O.C. Division at 10 a/m. Companies complete with transport drawn up at Bridging Site, 1100 yds. down stream from On completion of inspection of personnel and transport by G.O.C., four Pontoon Bridges were constructed by Field Cos., two across Lagoon - one each by 8th. & 14th. Field Cos. and two across canal by 15th. Field Coy. 8th. Field Coy. bridge consisting of one WELDON TRESTLE and 8 BONTOONS completed in 16 minutes. 14th. Field Coy. Bridge consisting of 10 Pontoons completed in 15 minutes. 15th. Field Coy. Bridge of 5 Pontoons across cana, 1 completed in 6 minutes and one consisting of two WELDON TRESTLES and 8 completed in 6		
		danal and to testing a coheme drawn by C. P. F.	App	11
	28	Continuation of Bridging Training by Field Cos. Pile Driving Frame, monkey and winch arrived by rail from HAVRE, for use on construction of wharf on canal. This taken over by 15th. Field Coy. Design of frame and monkey not considered altogether satisfactory by C.R.E. and memo forwarded to C.E. 3rd. Army and C.E. 1st. Anzac		
	29.	FIELD COS. continuing Pontoon Work on Canal. 5 more monkeys received by lorry from HAVRE and have same defects as one received by rail yesterday. Lieuts. OLIVER and CLARKZ, 15th. Field Coy. getting out new design of Pile Driver.	AP	12
	30.	Received portion of material for Lorry type PONTOON BRIDGE from R.E. WORKSHOPS, MEAULTE. Report forwarded to 5th.D.H.Q. on "SCREENS". * Field Companies at work on PONTOON BRIDGING across CANAL. Report received by C.R.E. from Lieuts. OLIVER and CLARK 15th.Field Co. on "HEAVY	AP	13.
		Report received by C.R.E. from Elects. Officers. 673. O.R. 1/6/17. PONTOON BRIDGE".* Strength of DIVISIONAL ENGINEERS: - (23 Officers. 692. O.R. 30/6/17.	App	14.

APPENDIX No. 1. appendix /

5th. Australian Division, Training Memo. No.98.

1. The Div. may possibly be out of the line for some time.

In this period all ranks must get into hard condition and fit for a period of mobile warfare - possibly a persuit in a force of all arms. To get the men fit for this work marches will be undertaken at once.

Practice is needed in loading up 1st. Line Transport and "Falling in" Units not more than 5 minutes before moving down to the starting point.

Marches at first will be undertaken by Battalions with all their first line transport. When and if Div. moves into a back area, marches will be carried out by Brigades with affilliated Field Cos., Field Ambs. & Cos. of the Div. Train.

March discipline must be enforced throughout this triaining. Columns must learn to "Fall in" rapidly after a halt, and move off again without delay. Transport Drivers must dismount rapidly and loosen girths. The Notes on "March Distipline". issued with Training Memo. No.79 are republished Every officer will study these notes and then lecture to his men.

During the whole period of training every Battalion and Field Coy. willcaarry out two marches a week of not less than 5 miles in the first week, and increasing gradually to 10 mile marches.

- 2. Training in Field Work and open warfare will be progressive It will commence where left offbbefore vide Training Memo No. 85.
- 3. BRIGADE SCHOOLS. In each Brigade a School of Instruction will be started for training the follwing;

 Rifle Grenadiers and Bombers.

 Lewis Gunners.

 Trench Mortar Personnel.

 Signallers.
- 4. SPECIALIST OFFICERS.
 - (a) The Divisional Bomb Officer is available to assist in Brigade Schools on the following days;-

8th. Infty. Bde. Mondays and Tuesdays.

14th. do Wednesdays and Thursdays,

15th. do Fridays and Saturdays.

- (b) O.C. Divisional Signal Coy. will directly supervise the training of Signallers in Brigade Schools.

 (c) The D.T.M.O. will be available to assist in the training of L.T.M. Personnel as soon as the Divisional Arty. is relieved in the line.
- 5. GAS SCHOOL. A Divisional Gas School will be started at BECOURT camp. Each course will last 3 days. Brigades and Divisional Units will forward tomorrow 29th. inst. a nominal roll of Officers and Other anks they wish to send to each course. The mates of the courses will be as follows:-

lst. COURSE. Assemble BEACOURT 6 p/m 30th.May.

Return morning 3/6/17.

2nd. Course Assemble BECOURT 6 p/m 3rd. June.
Return morning 7th. June.

3rd. Course Assemble BECOURT 6 p/m 7th. June.
Return morning 11th. June.

	GENERAL TABLE OF WORK.		Table "A"	
SECTOR	WORK . I CO THE STANDARY OF TH	0000	Estimated Party required daily.	. 793
Right	Cover for supports, & Supporting points - about 0.8.b.5.0.	14th. Inf. Bde.	Battn.	Total and the state of the stat
	Tactical wiring across present gaps Defence Northern Side VILLERS AU FLOS Including Wire	The Table of the T		TI OWATER TO DO THE PARTY OF TH
	Machine Guns in 0.2.c. Completion of Post No.8 Supporting Point H.36.d.central	14th. Field Coy.	日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	Tang to bed to be a to
	Defences of REINCOURT	1 Coy. Pioneers		D. O. D. H. CO. CO.
BANCOURT	Completion of all round defences; internal communications.	2 Cos. Pioneers	Vid of	TERES STATES STA
Centre	Strong Points H.35.a. & b. on BANCOURT -). Bapaume Switch Supporting Point in H.29.c. with whre	8th. Field Co.	F 0 E 2 E 3	Tara ta Lara ta
	Completion of Front Line.	8th. Inf. Bde.	l Battalion.	TAJ.
Left.	Completion of wiring Defenses of BIEFVILLERS Supporting Point in H.21.c.	Bu Boo. Hoo	H-1 ID	The training the course of the Cancor and Ca
			· va ii	

6. Pige APPEND 39.9 Divisional Signal Coy. has arranged for the training of PIGEONEERS at the following lofts;-(1) MONUMENT, (2) AVESNES les BAPAUME Each loft can accommodate a train 6 men for each 4 day

course. Classes will be attached to, and rationed by the 20th. Divl. Signal Coy., Under arrangements made by O.C., 5th. Div. Sig. Coy.

Vacancies are alloted as follows.

1st. Course 8th. Infty. Bde.

30th. May. - 2nd, June. 12 vacancies.

14th.Infty. Bde. 15th. Infty. Bde.

2nd. Course 3rd. June - 6th. June. 12 vapancies. 3rd. Course. 7th. June - 10th, June 12 vanancies.

Classes will report to the N.C.O. in charge of the Loft by 7 p/m on the day prior to the commencement of the course.

7. TRANSPORT SCHOOL. The Divl. Transport School will be commenced on Wednesday May. 30th. The personnel detailed to a tend this course in Training Memo, No.89 of 7th. May will report to the A.D.V.S. at Divl. H.Q. at 9.15 a/m on May 30th. The Syllabus will be the same as before. The course terminating on Wednesday June 6th.

In addition, the Divisional Commander wishes Brigade Commanders to inspect all their 1st. Line transport once a week.

8. ASSAULT AT ARMS. A Divisional Assault at Arms, will be held in about 3 or 4 weeks time. A detailed programme will be published shortly.

9. PROGRAMMES. Each Brigade and Divisional Unit will forward by 6 p/m on Sundays and Wednesdays a programme slewing the training work to be carried out for the next three days. Work exclusive of lectures will be limited to 4 hoyrs a day. As far as possible organized games, sports, and competitions will be held in the afternoons. Programme should not go into details but must be specific as to time, place, and nature of work so that Divisional Commander can visit units.

In the case of marches, the time, starting point, and route will be given.

10. ENGINEER TRAINING.

CALLE ON A REAL

四月 中日中十七日

00 0 W 1 0 0

Attention is directed to G.S. Memo No. 146. One and a } Battalions in ecah Brigade will be detailed to work on the Corps Second Line until defensive system is completed.

> O A O D IR O H

BRUGE

0 40 0 4

Sgd. C.M. Wagstaff, Lt-Col. G.S., 5th.Aus. Division.

H H H I D O

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Works Report on CORPS SECOND DEFENCE LINE for period 30/5/17 to 2/6/17.

Map 57.c.N.W. & S.W. combined 1/20,000

1. Wire.

(a) 0.8.a.2.3. to 0.8.a.0.5.0 Two double apron fences erected 40' sentres. Total length double apron fence 400 yds.

Defences North Side of VILLERS AU FLOS. 0.8.a.0.5. to 0.8.a.l.3. Two double apron fences erected 40' centres. Total length of double apron fence 900 yds.

0.2.c.8.5. to 0.2.a.6.2. Two double apron fences (c) erected 40' centres, with old Bosche wire incorporated.

Strong Point 0.2.a.4.2.. Single doublde apron fence (d) erected completely sround strong point.

BANCOURT. Double apron fence being erected from H.35.b.8.5. to H.36.a.9.9.

H.22.c.7.3. to H.22.c.2.5. One row Bosche birdcage (t) wire erected 240 yds.

H.20.b.1.8. to H.14.c.6.1. Two rows Bosche birdcage (g) wire erected, 300 yds.

One row single & one row H.14.0.4.4. to H.14.c.0.7. (h) 200 yds. double apron fence erected.

One row single and 1 row H.14.c.0.7. to H.13.c.9.6. (i) double apron fence erected, 600 yds.

2. Trenches and Strong Points. Cross section of trench when completed

Supporting Point. 0.8.c.7.9. to 0.8.a.6.3.

(a) All fire bays completed. No traverses yet dug. Cover for Supports. 0.8.c.6.5. to 0.8.a.1.3. (b)

All fire bays completed. Traverses under construction.

DEFENCES NORTH SIDE OF VILLERS AU FLOS. (c) 0.8.a.0.5. to 0.7.b.0.6.. All fire bays completed. 215 yds. of traverses completed.

Strong Point, I.31.d.8.0. 45 yds. of trench deepened from 2'6" to 3' and 160 yds. of new trench dug to depth of 1'0".

(r) H.20.b.4.5. to H.20.b, 15.70. 160 yds. trench completed.

(s) H.20.b.0.5.75 to H.14.c.60.05. 150 yds. front trench compltd 200 yds. traffic trench completed. 5 C.Ts. Completed.

(t) H.14.c.5.1. to H.14.c.35.20. 100 yds. Trench dug.

(u) H.14.c.3.3. to H.13.d.9.5. 100 yds. front trench dug. 180 yds. traffic trench dug. 3 C.Ts. Dug.

(v) H.13.d.85.55. to H.13.d.25.30. 200 yds. trench dug.

(w) H.30.c.9.4. to H.13.c.35.80 250 yds. trench dug.

(x) DEFENCES OF BIEFVILLERS. H.19.b.2.6. to H.19.a.00.55 750 yds. trench dug to 9" deep. H.19.b.25.40 to H.19.b.5.2. 65 yds. C.T. dug to 3' deep.

3. DUGOUTS. NIL

4. M.G. POSITIONS. ;-10 yds. Trench completed, nest commenced. 0.2.c.45.30, 0.2.c.30.35 0.2.c.2.6. completed. H.36.b.65.75 H.36.b.50.65 H.36.b.45.80

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Appendix 3.

1st. Anzac. Routine Order dated 1/6/17.

No.288.

BLANKETS.

Units may retain one blanket per man during the summer months.

The following return is submitted in reply to your A56/670 of 31/5 17

Officers, N.C.Os. and Men who have not been granted leave to England and who have had UNIT the following periods of service. in France or Egypt.

	18 months	or over.	12 months	or over.	6 months	or over	TOTAE.
	Officers	0.R	Off.	O.R.	Off.	0.R.	
H.Q.D.E.	1	2			_	1	4
8th. Fd.Co.		49**	4	49	-	9	107**
14th. do	-	41	-	60	1	20	122
25th. do	-	-	-	80	-	30	111
Total	1	92	-	189	1	60	344
	======:		=========			==============	======

** Includes 20 O.R. with over two years service including GALLIPOLI service.

C.R.E 6/126/25 4/6/17

> Sgd. S.E. Evans for Major, Acting C.R.E., 5th.Aus.Div.

& SECRET

Headquarters, 5th. Australian Divisional Engineers.

8th. Field Coy.

14th. do

15th. do

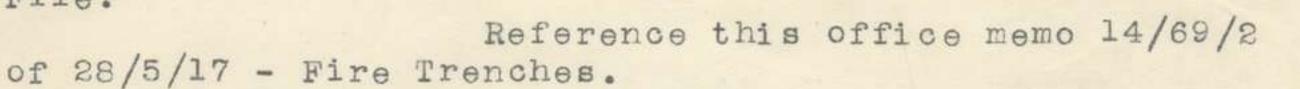
5th. Pioneer Bn.

"G" 5th.Aus.Div.

-War Diary.

C.R.E.

File.



The order about 30' Fire Bays and 18' traverses must be regarded as a general order only, and not to be adhered to under all conditions.

Where the fire trench is part of a continuous line, and is not liable to enfilade, 30' fire bays are satisfactory, but portions of the trench on the sides of salients, or which are sloping down hill towards the enemy, are very much weakened if the bays are all long as 30'. This disadvantage of the 30' bay becomes very much accentuated in the case of all round defences of a village or small area, and it is sometimes necessary to reduce the bays down to even 12'; and possibly to reduce the traverses to 12' also in order to obtain sufficient fire power.

ability of long fire bays is exemplified by the Bosche trench for the defence of Bancourt immediately S.E. of the Bapaume Bancourt Road. This corner might be taken as an example of how not to do it.

BARBED WIRE. A 40 yds. gap should be left every 4 or 500 yds. in continuous lines of barbed wire to admit of passage of counter attacking forces. Such large gaps as this need not be left in the case of villages or small defended localities, for which 10 yd. gaps on the roads will probably suffice.

It has been noticed that 40 yd. gaps in the spaces between villages have sometimes been wired in. Field Cos. should endeavour to make sure that all ranks understand the reason of the gap and know of the order.

12/6/17.

Sgd. A.B. Carey, Lt-Col. C.R.E. 5th. Aus. Division.

Copy.

Appendix 6.

Chief Engineer, 1st. Anzac. G. 5th. Aus. Div, Q. 5th. Aus. Div.

G.U. 49.

12/6/17.

As a result of reconnaissance of river SOMME strongly recommend 5th. Div. Engrs. be billeted at DAOURS and VECQUEMONT or if this not permissible camped at AUBIGNY or immediately south of VECQUEMONT thus being close to junction of HALLUE and SOMME Rivers and below ANCRE junction AAA Billeting at CORBIE second best proposition AAA BRAY third best AAA could utilise whole pontoon park with advantage AAA Addressed C.E. lst. Anzac repeated "G" & "Q" 5th.Aus.Div.

C.R.E. 5th. Aus. Div.

14

Meadquarters 5th. Australian Divisional Engineers.

ENGINEER ORDER No.6.

- 1. The 5th.Australian Division (Less Artillery and Headquarters Company of Train) will be relieved by the 2nd.Australian Division (Less Artillery and Headquarters Company of Train) now in the SENLIS Area, between 14th.and 17th.June.
- 2. Dismounted personnel of Sth. Field Co. will move with 8th. Infantry Brigade and take over billets vacated by 6th. Field Co. at SENLIS on 16th.inst.

Dismounted personnel of 14th. Field Co. will move with 14th. Inf. Bde. and take over billets vacated by 5th. Field Co. at

MILLENCOURT on 15th.inst.

Dismounted personnel of 15th. Field Go. will move with dismounted personnel of 5th. Pioneer Battalian and take over billets vacated by 7th. Field Go. at BOUZINGOURT on 17th.inst. (See attached table of moves "A".

- 3. Moves of dismounted personnel will be made by train from BAPAUME to PUCHEVILLERS for RUBEMPRE, and VARENNES for other destinations.
- 4. Transport will move by road as follows:14th.Field Co.transport will move with 14th.Inf.Bde.Transport
 and take over 5th.Field Co. transport lines at MILLENGOURT
 on 15th.inst.
 8th.Field Co. transport will move with 8th.Bde.Transport
 and take over 6th.Field Co.transport lines at SENLIS.on
 16th.inst.
 15th.Field Co. Transport will move with 5th.Fieneer transport
 and take over 7th.Field Co.transport lines at BOUZINGOURT
 on 17th. inst.
 (See attached table of moves "B".
- 5. All maps, orders and plans in connection with Defence Work being carried out, will be handed over on relief.
- 8. Headquarters 5th. Aus. Div. will be established at RUBEMPRE at 12 noon on the 17th. inst.
- 7. BAPAUME ALBERT ROAD is open for traffic between BAPAUME and POZIERES only between the hours of 9 a.m. to 12 noon and 3 p.m. to 5 p.m.. Interval of 500 yards will be maintained between Transport of Units.
- 8. CERTIFICATES. will be obtained from all relieving units that camps are handed over in a clean and sanitary condition and forwarded to C.R.E. Office by 10 a.m. 18th.inst...

9. ACKNOWLEDGE.

V'Lt.& Adjt,

Divisional Engineers, 5th. Australian Division.

13/6/17.

(2).

2. Time Table .

UP.

rain No.		Warennes.	Date.	Bapaume.
1	8-56		14th.June.	11-15
2.	10-56		11 17	13-15
2.	15-56	-	# #	18-15
4.		9-00	15th.June.	10-36
5.		11-00	11 11	12-41
6.		13-30	88 88	15-20
7.		9-00	16th.June.	10-36
8.		11-00	11 11	12-41
9.		13-30	11 th	15-20
10.		11-36	17th.June.	14-00

DOWN.

	Depart		Arr	i v e.
rain No.	Bapaume.	Date.	Varennes.	Puchevillers.
1.	12-00	14th.June.	**	14-46
2.	14-00	# #	-	16-46
3.	19-00	11 11		22-46
4.	11-20	15th.June.	15-00	-
5.	13-30	10 10	15-20	-
6.	16-00	# #	17-40	-
7.	11-20	16th.June.	13-00	
8.	13-30	11 11	15-20	
9.	16-00	11 11	17-40	-
10.	15-00	17th.June.	17-45	-

ALBERT, 12th.June, 1917. (Sgd). C. HEAD, Major, D.A.D.R.T.(V)

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1	TADU	E OF MOVES, DI	SMOUNTED PERSO	ONNEL BY TRAIN. TO ACCOMPANY 5th AUSTRAL	IAN DIVISION ORD	1 JLE "A".
Date		Unit	From	To	Relieved by	Remarks
14th	June.	15th Inf.Bde	"M" Area	Bde H.Q. & 2 battalions RUBEMPRE 2 battalions) M.G.Co. & L.T.M. Batt.) CONTAY	5th Inf.Bde	
15th	June.	14th Inf. Bde 14th Field Co.	"M" Area	Bde H.Q. & 2 battalions) WARLOY M.G.Co, L.T.M.Batt. 1 battalion 14th Field Co. 1 battalion BOUZINCOURT		14th Field Co. takes over billets occupied by 5th Field Co.
16th	June.	8tl Inf. Bde 8tl Field Co.	"M" Lrea	Bde H.Q. & 3 battalions) M.G.Co., L.T.M.Batt) SENLIS. 8th Field Co.) 1 battalion. NORTHUMBERLAND AVENUE, (BOUZINCOURT)		8th Field Co. takes over billets occupied by 6th Field Co.
17th	June.	5th Pioneer Bn 15th Field Co.	"M" Area	BOUZINCOURT (Midland Camp) BOUZINCOURT	Similar units of 2nd Aust. Div.	
17th	June	Divisional Headquarters	H.35.c.5.5	RUBELPRE	H.Q. 2nd Aust.Div.	

RCDIG1009567 AUSTRALIAN WAR MEMORIAL

Tanne

MARCH TABLE OF TRANSPORT IC ACCOMPANY 5th AUSTRALIAN DIVISION ORDER No. 152.

Date	Transport Unit	From	То	Route Remarks
June 13th.	15th Inf. Bde.	BIEFVILLERS	SPRING GARDENS Camp	BAPAUME-ALBERT Road.
June 14th.	15th Inf. Bde.	SPRING GARDENS	RUBEMPRE	AVELUY - BOUZINCOURT - SENLIS - WARLOY - VADENCOURT.
June 15th.	14th Inf Bdo and 14th Field Co.	BEAULENCOURT	WARLOY MILLENCOURT BOUZINCOURT	ALBERT - MILLENCOURT (less troops for BOUZINCOURT).
June 16th	8th Inf. Bde and 8th Field Co. Divisionel Headquarters	BAPAUME H. 35.c.	SENLIC, BOUZINGOURT SPRING GARDENS	ALBERT - BAPAUME Road ALBERT - BAPAUME Road
June 17th.	5th Pioneer Bn. and 15th Field Co. Divisional Headquarters	"M" Area SPRING GARDENS	BOUZINCOURT	AVELUY - BOUZINCOURT SENLIS-WARLOY-VADENCOURT

^{1.} Horsed transport is only allowed to pass on the main BAPAUME-ALBERT Road, between POZIERES and BAPAUME, between 9 a.m. and 12 noon, and 3 p.m and 5 p.m.

2. SPRING GARDENS Camp may be used for midday halt each day as required.

3. 500 yards interval will be maintained between the transport of any two units.

Sth. Aus. Div. Engineers Order No. 7.

By Brovet Dt-Col. M.B. Carey, C.M.C., D.S.C., R.E.

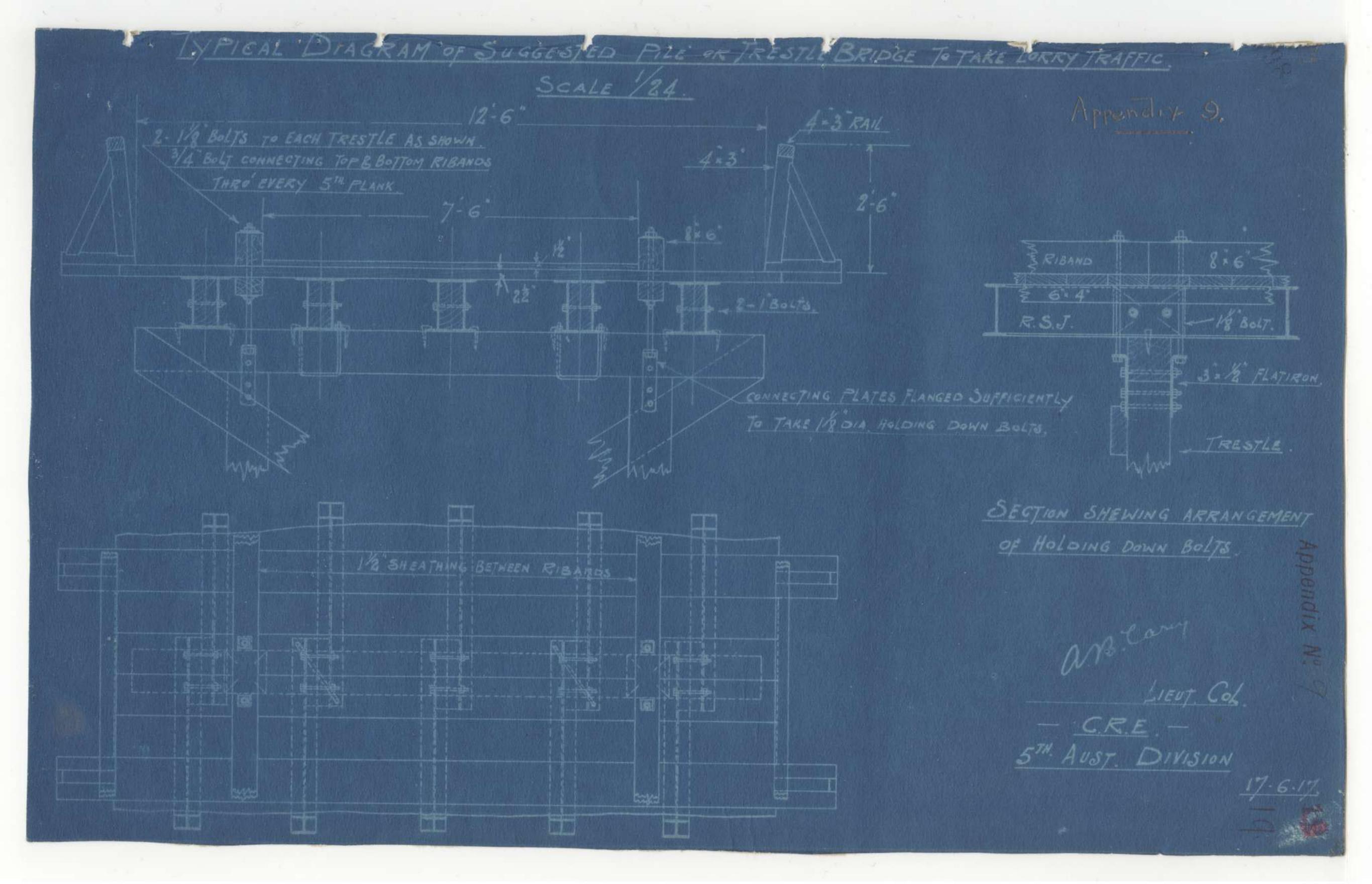
C.R.B., Sth. Australian Division.

France 18th. June 1917.

- (1) G.R.S. Hdgrs., Sth. Field Coy., leth. Field Coy. and leth. Field Coy. A.E. will move to CORDIE on June SChi. under own arrangements as regards time and route.
- (A) Each Company will send an advance party of one officers and five other ranks to make detailed arrangements for billets with Town Major, Corbie on June 19th.
- (3) Each Ucy. will detail one R.O.O. and 3 men to be attached to their brigade Headquarters for supervision of water sup by, bathing and drainage work. R.O.O. to be mounted.
- (6) On and after 20th. inst. all rations will be drawn from 14th. Brigade Supply Depot at MILLERCOURT at 10.65 a/m. One motor larry per company is allotted for this purpose.
- (5) E.G. Div. Engre. will be attached to 8th. Field Coy.
- (6) Eupplies will not be drawn on 18th. inst. Ivo
- (7) 15th. Field Goy. to detail party under an officer to take over 10 pontoons from 1st. Div. at BRAX and take same to GURBIE by river.

for C.R.E., 5th. Aug. Division.

Issued to:Sth., lath. a lath. Field Cos.
S. a Q. Sth. Aps. Div.
Sth. Pioneer Bn.
War Diary,
File S.



AUSTRALIAN WAR MEMORIAL RCDIG1009567

ENGINEER

ORDER No. 8.

By Bt. Lieut-Col. A.B. Carey, C.M.G., D.S.O., R.E.,

C.R.E., 5th. Australian Division.

France 26th. JUNE 1917.

1.G.O.C. 5th. Australian Division will inspect Divisional Engineers at 10 a.m. on morning of June 27th. at CORBIE.

2.Field Companies will be formed up in line at bridging site at 9.55 a.m.. Order facing Canal, 8th.Field Co., 15th.Field Co., and 14th.Field Co. from left to right.

DRESS. Officers. Sam Browne Belt, Haversack, Water bottle, Field Glasses and Prismatic Compass.

Other Ranks. Fighting Order. Felt Hats will be worn turned down with badge on left side of crown. Gas helmets will not be worn carried.

3.0n completion of G.O.Cs. inspection of personnel and transport 8th. and 14th.Field Cos. will each construct one pontoon bridge across lagoon. 15th.Field Co. bridging detachments will then pass over lagoon by first bridge completed and will immediately construct two bridges across canal.

On completion of bridges across lagoon 8th. and 14th.Field Cos. will move independently across lagoon and then across canal as soon as 15th.Field Co. reports bridges complete.

15th. Field Co. will also move across both lagoon and canal on completion of their bridges.

Companies will remain responsible for their respective bridges until whole of 5th.Divisional Engineers are across, when they will hand over to 8th.Pontoon Park R.E..

4. 14th.Field Co. will provide galley of four sections of Pontoons and crew under an Officer to be at Canal bridge 9.40 a.m..

G.O.C. will travel down canal to Bridging Site and return after inspection by means of galley.

26/6/17.

Divisional Engineers, 5th.Australian Division. GENERAL SITUATION.

APPENDIX 11.

TACTICAL SCHEME FOR INSPECTION - by GOC DIVISION

The enemy is holding the high ground between the ANCRE and the SOMME, and so far attempts to dislodge him by attacks in the neighbourhood of MERICOURT have failed. The bridge at CORBIE and the main streets of the town are under accurate. long range fire.

The French on the South bank of the SOMME have pushed forward some 5 miles East of CORBIE, but

are short of bridging equipment.

It has been decided to push a considerable force across the SOMME West of CORBIE and to attack the enemy from the SOUTH.

3 Field Cos. complete with bridging equipment are to be ready to bridge the SOMME in the neighbourhood of SAILLY. The Engineers 5th. Aus. Division are responsible for bridging the SOMME both below CORBIE and again in the SAILLY sector.

Equipment for the bridges below CORBIE has been brought up during the night by the 8th. Pontoon Park thus freeing the equipment of the 5th. Aus. Div. Engineers for pushing forward to the assistance of the French.

Loeut-ColR.E.

28/6/17.

C.R.E., 5th. Aus. Division. 98

Headquartens, 5th. Australian Divl. Engineers. Appendix 12

Copy to C.E., 3rd. Army.

One Pile Driver was received yesterday from R.E. Stores Officer, Le Havre.

It is considered that this Pile Driver is too heavy for use in rapid construction of lorry bridges. It would appear to be essential that Pile Driving for this purpose should therefore be done off a Canti Lever or off a Light Skeleton Staging. This being the case it is *** essential that the File Driver shall be extremely portable.

The type of pile driver sent has the following

defects;-

Owing to the shape of monkey, steel plate slides have been provided, approximately 18th long by 5" by 7/8". These in themselves are a considerable weight, and would not be necessary with a monkey of more normal type.

The bottom of the monkey sent is concave to the extent of several inches, and very roughly cast. It would be impossible to drive with such a base.

The solid platform with wheels is considered

The scantling of the timber framework could also be reduced.

Design has been put in hand and will be forwarded

as soon as ready.

The type of monkey preferred would be one having a large lug on the back, sliding between two wood scantlings and held in place by a plate fitting over a pair of bolts cast into the lug so as to be easily detachable.

29/6/17.

Sgd. A.B. Carey, Lt-Col.RE C.R.E., 5th. Aus. Division

Headquarter, 5th. Australian Divisional Engineers.

Headquarters, 5th. Aus. Div. SECRET.

Appendit 13

Workloan

Reference 3rd. Army No.G.5/62 of

by this Division in the FLEURBAIX sector for the purpose of concealing traffic on roads. The following types were tried;-

- 1. Wire Netting Screen single thickness.
- " double
- 3. Wire netting with canvas strips interwoven.
- 4. Hessian canvas screek unpainted.
- s n n stained.
- 6. Brushwood screens.

No.1 is considered useless.

No.2 was of some slight value.

make as a large amount of the area has to

no.4 is perfectly satisfactory as regards screening, but is rather conspicuous and requires careful staying to prevent

No.5, if the canvas is dipped in green dye so as to produce splotches of colour shaped somewhat like the tops of local small trees the effect is very good. This type of

course requires staying as No.4.

(2)

constructed on a framework consisting of poles about 2' in the ground and 15' out with diagonal cross bracing of wire between poles and also cross wing stays consisting of windles taken down to pickets. Longitudinal wires were run from pole to pole about 18" to 2ft. apart vertically. Brushwood was interwoven vertically. This type of screen takes longer to make than the dyed canvas wer screen, which latter, if properly strengthened against weather conditions would probably be even the most suitable for general use particularly if arrangements were made at the base for dying the tant canvas to suit different localities.

Roofs of wire netting interwoven with grass were found very useful in concealing gun pits or tracks up to batteries. Wire netting by itself is not of much value.

In the GUEUDECOURT - LES BOUFS sector Coir Matting was used with good results to conceal M.G. Nests and, in some cases, entrances to deep dugouts. The Coir Matting in some cases was laid practically horizontally on light scantlings just above ground level. Coir Matting was also used to defilade Divl. Advanced H.Qrs. at VAULX from aeroplane observation. When stretched over amrow of huts it completely hides the shadows between the huts. It must be made to overhang the front and back edges of the row to prevent any shadow being caught by an aeroplane photographing when not directly over the object, and these long edges should not be straight, but should be broken both by having an uneven edge to the matting and also by allowing it to drop more in some places than others. This can easily be worked in with the arrangements for picketing it down to the ground.

(3)

Effect of shell fire on these screens has been practically an negligible as far as the experience of this Division goes.

Lieut-Col.R.E., C. R. E. 5th. Australian Divisions

30/6/17.

COPY.

29th.June 1917.

To G.R.E., 5th. Aus. Div. A.I.F. From Lieut.Oliver, and 2/Lt. Clark, 15th. Field Co.A.E.

HEAVY PONTOON BRIDGES. We have closely examined drawings of above,

and have to report as follows. Bridge B. Three tripartite pontonn with 7 inches freeboard will carry 20 tons. Superstruction per bay is nearly 5 tons giving 15 tons as miximum load per bay. (M.E. Pt.3.b. gives 6" min. freeboard in smooth water, 12" in rough).

The 16 baulks and ribands will transfer about one third of this load to each outer pontoon without exceeding stress caused by "Infantry in Fours, crowded at check" on 'medium bridge'. This stress is, however, rather excessive.

Owing to flexure of baulks, the centre pontoon will sink rather lower than the outer one, but a flexure of 3" will only correspond to centre pontoon taking about 1 ton more load than outers.

Bridge C. Will carry 13% tons per bay with 7! freeboard, and of this superstructure amounts to 3% tons.

Bridge D. Pontcons also take 13% tons per bay with 7" freeboard, and superstructure weighing 12 tons per bay.

The 12 x 5 joists on 21' span will safely take 5% ton dead load concentrated at centre. Girders in Bridges B & C are ample for pontoon capacity provided they share the load reasonably. But chesses, troble and double respectively, seem light for such heavy traffic.

The 18 baulks and ribands in Bridge D should carry 15 tons distributed or 7% tons concentrated if all could be relied on to take their share. But owing to the light floor an axle load of 5 tons

(2)

would reach the limit of safety - say a load of A.S.C. lorry or 6" howitzer.

We therefore reggrd the limit of Bridges B as 15 tons axle or distributed, and of bridges C & D as 8 tons axle load, though D should carry up to 11 tons per bay if sufficiently distributed.

It is to be noted that spans of B. & C. are

21 ft. and of D, 15 ft.

We suggest that loading on Bridge B would be better distributed if chess layers are alternately transverse and longitudinal, one chess per bay of the 2nd. layer being laid transversely to make up the 21 ft. length of bay.

Numerous minor points call for criticism.

(1) Saddle 12 x 12 with rounded edges should certainly be metal capped for seating of 12 x 5 joists.

- (2) Saddle is lashed to baulks and ribands but not otherwise secured against shifting. Buttons might be provided on 4 ribands to prevent transverse motion without interfering with use of ribands for ordinary bridging. This provision with 1 lashing at each end of saddle to thwarts of pontoon should make saddle secure.
- (3) The fixing of distance pieces between pairs of 12 x 5 joists on Bridge B looks a very tedious job, owing to small clearance. If claws on distance piece are skewed 2°, joists of each pair may be mard up instead of 2° apart, and bolts may be inserted much more easily.

 Alternatively, claws might be bolted at end of each joist, joggled to bolt to web, and omitted on distance pieces. Claws on 2 joists per bay are almost essential for holding pontons at proper spacing while assembling, unless special distance timbers are provided.

(4) Use of 8 x 3 cleat on saddle is not apparent. The 6" spike separators should suffice at ends

also.

(3)

(5) Bars with toggles will be necessary for handling joists which weigh 700 lbs. each.

(6) Lashing of Pontoons together and of ribands & baulks to saddles will be tedious and unsatisfactory. A metal strap would be preferable.

(7) A four-part saddle on a tripartite pontoon means that joints in saddle are not supported by thwarts. This cannot be avoided without special saddles, which, if provided, might be fitted with straps to hold baulks.

(8) Bridge D is apparently designed for construction of no materials beyong Pontoon equipment and such timber as can be obtained at any R.E. Dump. The skew nailing of such timbers looks objectionable at first sight; but cut may be made in bridge without interfering with nailed timbers, which have only to be pulled adrift when bridge is totally dismantled as for packing on wagons.

(9) Shore ramp of Bridge D requires transverse sleeper to protect end chesses.

(10) "Arrangement of 9 x 3" for Bridge D assumes only short lengths available. If 15' lengths or over can be got, this saddle will be built up of 6 pieces only. If only 12 ft. lens. are available, these should go on outside so that only two 6' lens. will be required instead of the four shewn.

(11) Shore baulks for Bridges B. & C. are marked "R.S.J." but these shapes could not be rolled and must be forgings.

(12) Waterway. Bridge B Pontoons take 15'9" out of 21'. Bridge C, 10's" out of 21 ft. Bridge D, 10's" ou t of 15 ft. It follows that Bridge C alone is servicable if there is much current in stream (M.E. specifies & water way to be clear if current is over 4 mph.)

(13) Service Trestles. The transom of the service trestle is too weak to take half of a 15 ton load in Bridge B. This bridge puts on the pair of trestles a load 4 times as great as

(4) one trestle carries in medium bridge, so they can hardly be expected to suffice. They should be about heavy enough for C. & D. Bridge, but with small factor of safety.

(14) No tackles are shewn on trestles. These will be necessary and at least 1 ton size, or preferably 12 to raise transom and superstructure.

(15) Old type of lever strap is shewn on trestles. There seems no reason why improved type should not be used.

(16) No precaution as taken to keep the feet of the two pairs of trestles from separating. If the 7 x 3 bearers were provided with claws or buttons, instead of being lashed to transoms, the trestles would be held apart at proper distance at this level.

> Sad. Caulder K. Oliver Lieut. Edwd. V. Clark, 2/Lt.