

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

Engineers

**Item number:** 14/11/17

**Title:** Headquarters 5th Australian  
Divisional Engineers

October 1917



AWM4-14/11/17

WAR DIARY

Army Form C. 2118. 250

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.

or  
INTELLIGENCE SUMMARY.

Sheet 1.

(Erase heading not required.)

Headquarters 5th. Aus. Divl. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices												
SCOTTISH CAMP. Sheet 28. B. & F. G.23. b.3.6.	Oct. 1.		<p>Effective Strength of Divisional Engineers. 21 Officers. 597. Other Ranks.</p> <p>Units located as follows :-</p> <table border="0"> <tr> <td>H.Q.D.E.</td> <td>G.23. b.3.6.</td> <td>Sheet 28.</td> </tr> <tr> <td>8th. Field Co.</td> <td>I.19. b.2.8.</td> <td>" 28.</td> </tr> <tr> <td>14th. Field Co.</td> <td>I.21. b.0.5.</td> <td>" 28.</td> </tr> <tr> <td>15th. Field Co.</td> <td>G.23. b.2.6.</td> <td>" 28.</td> </tr> </table>	H.Q.D.E.	G.23. b.3.6.	Sheet 28.	8th. Field Co.	I.19. b.2.8.	" 28.	14th. Field Co.	I.21. b.0.5.	" 28.	15th. Field Co.	G.23. b.2.6.	" 28.	
H.Q.D.E.	G.23. b.3.6.	Sheet 28.														
8th. Field Co.	I.19. b.2.8.	" 28.														
14th. Field Co.	I.21. b.0.5.	" 28.														
15th. Field Co.	G.23. b.2.6.	" 28.														
	2.		<p>Headquarters moved from WALKERS CAMP H.27. b.7.7. to SCOTTISH CAMP G.23. b.3.6.</p> <p>15th. Field Co. moved from H.23. c.8.2. to G.23. b.5.6.</p> <p>2/Lt. LITTLEWOOD W.J. joined 15th. Field Co. from R.A.N.B.T.</p> <p>8th. &amp; 14th. Field Coys. moved from forward area to No.6 Camp at G.22. d.2.4.</p> <p>No.1 Section 8th. Field Co. relieved 2nd. Div. Engineers working on Corps Trench Model at G.23. a.1.0.</p>													
	3.		<p>Lieut. N.J. NANGLE transferred from 8th. to 14th. Field Co. as 2nd. in Command.</p> <p>Companies resting. G.R.E. addressed 15th. Field Co. and thanked them for work done in recent operations.</p> <p>Recommendations for New Years Honours submitted:- Major W.G. FARQUHAR, Capt. S.E. EVANS, Lt. N.J. NANGLE, No. 2364 Sgt. J.P. HEGGIE, No. 396.2 / Dpl. L.T. MARSHALL, No. 6005. Dvr. L.W. BROWN.</p>													
	4.		<p>Progress of Works report for week ending 3/10/17 rendered to D.H.Q.*</p> <p>Six reinforcements for 8th, and 6 for 14th. Field Coys. reported.</p> <p>C.R.E. and O.C. Coys. attended Conference at D.H.Q..</p>	*App. 1.												
	5.		<p>C.R.E. attended Conference at D.H.Q.</p>													
	6.		<p>Programme of Training for week ending 13/10/17 rendered to D.H.Q. *</p> <p>Engineer Instructions No. 28/75/8. issued to Field Coys. &amp; Pioneers re Tramline from WESTHOEK to ZONNEBEKE *</p> <p>Section of 8th. Field Coy. working on Corps Trench Model relieved by 42nd. A.T. Coy.</p> <p>Orders from C.E. to take over construction of BELLEWARDE- WESTHOEK- BROODSEINDE tramway received. 5th. Pioneers started on work.</p> <p>15th. Field Co. moved from SCOTTISH CAMP to H.23. b.8.8.</p> <p>C.E. asked to make 30 push trucks light pattern.</p> <p>10 tipcarts with harness available for the Division, no heavy draught horses available.</p>	*App. 2. *App. 3.												

*Job*

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INTELLIGENCE SUMMARY

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Sheet 2.

5th. Aus. Divl. Engineer Headquarters.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
SCOTTISH CAMP. Sheet 28. B. & F. .23. b. 3. 6.	Octr 6.		Division asked to attach 100 Infantry to ea. Field Coy. prior to going into the line. C.E. wired that tramway practically non existant west of WESTHOEK. Therefore making road loop and siding at WESTHOEK. Tramway is only 120 yds. beyond HANNEBEEK and is 9 lb. track only. C.R.E's . H.F.I. 291 makes 15th. Field Coy. responsible for maintenance of:- 1. Plank Roads I.12.b.9.1. to J.13.a.6.9. 2. Plank Road from I.18.a.76. to J.13.a.6.9. 3. Plank Road from J.13.a.6.9. to J.7.d.9.1. 4. Duckwalks from I.18.b.4.7. to J.1.d.7.0. and J.7.b.9.2.	
	7.		15th. Field Co. (less transport) moved to I.8.c.4.3. Plank Roads repaired in 15 places. Slight delay on Tramway due to block on Plank Road. 8th. Field Co. to dump pontoons at KRUISSTRAAT and place wagons at disposal 15th. Field Co. for carting decauville from BIRR CROSS Roads to WESTHOEK. C.E. asked to supply forest planking for well sinking also two windlasses per day with rope and buckets complete.	
	8.		Consequent on relief of 1st. Aus. Division by 5th. Aus. Division, C.R.E's. 3/170/26. issued to Field Coys. and Pioneers.* Admim. Memo. No. 28. copied to Coys. together with map shewing Divisional Boundary.* 8th. Field Coy. moved to I.19.a.0.2., 14th. Field Coy. moved to G.24.c.5.4.. Capt. R.B. CARR promoted Major and transferred to 4th. Div. dated Oct. 8th. (5th. Aus. Div. A.52/3369 of 7th.). 5th. Pioneers working on WESTHOEK- BROODSEINDE tramway. 15th. Field Co. on maintenance plank roads and duckwalks.	*App. 4. *App. 5.
	10. 10am.		C.R.E's. HFI. 302 5th. Pioneers to concentrate on right hand branch tramway. C.R.E's. HFI. 299 15th. Field Co. in reserve in YPRES. Responsible for forwarding stores. Erection Baths in YPRES. Dump at BIRR CROSS authorised. C.E. obtaining camouflage. C.R.E. Corps Troops reported break in road vicinity J.7.b.0.2.. 15th. Field Co. sent out party after midnight to effect repairs. 14 holes repaired yesterday and considerable number this morning. At 2 p.m. to-day road was clear.	

*pb*

# WAR DIARY

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## INTELLIGENCE SUMMARY

(Erase heading not required.)

Sheet 3.

Headquarters, 5th. Aus. Divl. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
<p>SCOTTISH Camp. Sheet 28. B. &amp; F. G.23.b.3.6.</p>	<p>Oct. 8.</p>	<p>8 p.m.</p>	<p>C.E. wired (HFI.307.) that formation of tramway practically complete, but very little rail got through owing to shelling on WESTHOEK RIDGE and consequent congestion of traffic. C.R.E's. HFI.311. to 15th. Field Coy. suggested policy for Divisional Tramway based on motor transport to HOOGE about I.18.a.8.6.. Tram then to run east by north parallel to road through J.7.d.; J.8.c. &amp; d.; J.3.c.9.1.; J.3.d.4.6. approx. to J.4.central, 15th. Field Coy. to report on this.</p>	
		<p>9. 5 a.m.</p>	<p>Road at J.7.b.0.2. reported all clear. 8th. Field Coy. moved to I.9.c.4.2., 14th. Field Coy. moved to I.14.a.7.4. C.R.E's. 28/75/9. issued to Field Coys. and Pioneers - responsibility of work and boundaries between Units.* C.R.E's. HFI.316. 5th. Pioneers to hold one company in readiness for repair of CHATEAU WOOD Roads. R.E. Dump on LEINSTER Road established at approx. I.17.b.7.0. and material being sent forward. C.R.E's. HFI.326. to 8th. Field Co. Provision of two rows of French concertina wire along front line first important; second importance two rows French concertina wire along second line followed by barbed wire double apron fences irregularly situated. For this purpose French wire with two long and two short pickets per coil is being sent to BIRR CROSS Dump. Splinter proof accommodation to be made at R.A.Pa. for stretcher bearers. This necessary owing to heavy casualties among stretcher bearers. 14th. Field Co. to run LEINSTER Dump as long as it is of advantage after which to be abandoned. C.R.E's. HFI.333. C.E. wired that WESTHOEK- ZONNEBEKE tramway railhead now at J.3.a.1.7. and one loop almost completed.</p>	<p>* App. 6.</p>
		<p>8. 20 p.m.</p>	<p>C.R.E's. HFI.332. C.E. wired location of WESTHOEK-ZONNEBEKE Railway starts J.7.b.5.2. - J.8.a.0.6. - J.2.c.9.0. - J.2.d.9.9. - J.3.a.1.1. - D.27.c.4.0. - D.27.c.7.3. - D.27.c.6.5. - D.27.a.7.0. - D.27.b.0.3. -</p>	<p style="text-align: right;"><i>gpb</i></p>

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INTELLIGENCE SUMMARY.

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Headquarters, 5th. Australian Divl. Engineers.

Sheet 4.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
YPRES. Sheet 28. 1.14.b.1.5	10.		<p>H.Q.D.E. moved to LILLE GATE, YPRES 1.14.b.1.5.. Took over from 1st. Division. Progress of Work Report for week ending 10/10/17 rendered to D.H.Q. * C.R.E.'s. HFI 338 to 15th. Field Coy. A duckwalk is to be laid from LILLE Road to LEINSTER Road for use of troops of Reserve Brigade going up to the front. 15th. Fd. Co. will reconnoitre for location and report. An Infantry party will be detailed for the work. C.R.E.'s. HFI 337. to C.E. 1st. ANZAC. Location of 5th. Divisional Tramway leaving WESTHOEK - ZONNEBEKE Line at J.2.d.6.6. passes through J.3.c.2.3.; J.3.d.2.3. - J.3.d.5.7. - J.4.a.2.1.. Work commenced. 30 mules are being used daily for carrying water. 8th. Field Coy. ordered to put wells in hand early in order to render these mules available for other work. 8th. Field Coy. Advanced Headquarters I.12.a.5.2. working in forward Area. 14th. Field Co. responsible for Support Area. 15th. Field Co. in Reserve building Baths and Shelters. 53rd. Battalion placed at disposal of C.R.E. to assist in Engineer Work About 75 men from 15th. A.I. Brigade living at WESTHOEK will be available for carrying stores forward to ANZAC RIDGE Dump at CABLE HEAD J.3.d.3.8.. One Officer 15th. Brigade will meet 53rd. Battalion parties at 8th. Brigade H.Qrs. and will receive and forward material. The 14th. Field Coy. will wire 8th. Brigade giving approximate time of arrival of first parties so that Officer may meet them. 5th. Divisional branch from ZONNEBEKE Tramway, head of formation now at J.3.d.2.8.. About 150 yds. of rails laid since last report. Wired C.E. asking if 12 light trucks can be made for branch tramway. Sketch submitted. 29th. Battalion placed at disposal of C.R.E. for work (53rd. Battalion withdrawn) Three companies utilised in carrying Engineer Stores to Forward Dump on ANZAC RIDGE under orders of 14th. Field Coy. Wired 5th. Pioneers to start one Company on ZONNEBEKE-POLYGONE Road (through D.28.c. &amp; J.4.b.) work to be commenced 400 yds. south of Brick Kiln, road to be made 25' wide between ditches.</p>	* App.7.
	11.			
	12.			
	13			

*J.P.B.*

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INTELLIGENCE SUMMARY

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Sheet 5.

Headquarters 5th. Aus. Divl. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
YPRES. Sheet 28. I.14.b.1.5.	14.		<p>Report on work done 10/13th. October 1917 *</p> <p>The question of the value of wiring gloves having been raised the C.R.E. replied that wiring gloves give trouble and are looked upon as unnecessary. Better work can be done with the bare hands (C.S.S. 177. para. 41).</p> <p>Report on work done 14/10/17. *</p> <p>The Corps Commander has awarded the Military Medal to the following :-</p> <p>No. 4578. Driver C.B. JONES, 8th. Field Coy. No. 4562. 2/Cpl. A.A. THOMSON, 8th. Field Coy.                      No. 151. Sgt. E. MURRAY, 14th. Field Coy. No. 5405. Cpl. G.B. MORRISON, 14th. Field Coy.                      No. 2606. Cpl. J.T. WALLIS, 14th. Field Co. No. 3183. Sgt. G.K. FORBES, 15th. Field Coy.                      No. 7008. Sapper F.A. CLAYBURT, 15th. Field Coy. No. 97. Sgt. W. GIBB, 15th. Field Coy.                      No. 15723. Sapper H.N. NOONE, 15th. Field Co. No. 67. L/Cpl. R.W. LAWSON, 15th. Field Co.</p>	* App. 8.  * App. 9.
	15.		<p>Lieut. K.M. BRYDON, 14th. Field Coy. reported killed in action 12/10/17.</p> <p>Report on work done 15/10/17 App.</p> <p>One Company 53rd. Battalion available for work with 15th. Field Coy. tomorrow.</p>	App. 10
	16		<p>Report on work done 16/10/17 App.</p> <p>C.R.E's. H.F.I. 387 to 8th. Field Coy. "Relay post being moved from Tunnel to Ideal house J.3.c.1.8. Accommodation required for 12 stretcher cases and 24 bearers"</p> <p>Col. Carter, 5th. Pioneer Bn. reports :- Ref. Road running South from ZONNEBEKE through D.28.c.4.5. J.4.a. &amp; b. This road is in fair condition from Brick Kiln down to D.28.c.4.5. and can be made pretty sound. From this point to J.4.a.9.8. the formation still exists but is mud covered. Mud being removed and drains dug both sides and two cross culverts. From J.4.a.9.8. to J.4.b.2.5. the road no longer exists. From J.4.b.2.5. formation again available under the mud.</p>	App. 11
	17		<p>Progress of Works Report for week rendered to D.H.Q. *</p> <p>Wired C.R.E. Corps Troops that his part of road from WESTHOEK through CHATEAU WOOD</p>	* App.

*gpc*

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~~INTELLIGENCE SUMMARY~~

Sheet 6.

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HdQRS. 5th. Aus. Div. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
YPRES, Sheet 28 I.14.b.1.5.	October 17		badly damaged by hostile shell fire and traffic hung up. 30th. Battalion allocated to 14th. Field Coy. for work tomorrow.	
	18		Appendix 13 shews work done 24 hours ending 6 pm. * Asked to secure several samples of concrete taken from Herman Pill Boxes of recent construction. Samples secured and forwarded with fullest particulars available to Ig. 5th. Aus.Div. * C.R.E's., HFI 398 issued to 8th. & 15th. Field Cos. 15th. Field Coy. to relieve 8th. Field Coy. in Forward Area. 8th. Field Coy. to take over all back work. Relief to be completed by 10 <sup>a</sup> /m on the 20th. inst. 2 Cupola shelters required at MOATED GRANGE for Sound Ranging Section. 2/Lieut. (Hon Lieut) H. Wagstaffe, 14th. Field Coy. to be Lieut. dated 1/9/17 (AIF List 244 of 12/10/17). Lieut. N.J. Nangle, 8th. Field Coy. transferred to 14th. Field Coy. dated 2/10/17.	App.13  App.14
	19		Lieut. A.T. Ewart 15th. Field Coy. wounded, remaining at duty. Appendix 15 shews work done for 24 hours ending 6 pm. *  2/Lieut. W.J. Littlewood, 15th. Field Coy. to be Lieut 11/10/17 (AIF List 246, 19/10/1917.	App.15
	20		Readjustment of Boundary Engineer Instruction 69 <sup>1</sup> / <sub>9</sub> and amendment *  The various types of mule tracks used at different times are as set forth in C.R.E's. 80/179/34 and blue print attached * 15th. Field Coy. ordered to erect a splinter proof shelter at D.29.c.55.75 for two Divisional Observers. 15th. Field Coy. relieved 8th. Field Coy. in forward area.	*App. 16 & 16.A.  *App. 17
21			D. D. & L., London, E.C. (A8094) Wt. W1771/M2/31 750,000 5/17 Sch: 52 Forms/C2118/14	9

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Sheet 7.

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HdQRS. 5th. Aus. Div. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
YPRES Sheet 28 14.b.115.	21		Water Supply;- Appendix 18 gives particulars of 5 wells sunk and one old well *** reopened in 5th. Divisional Area. * C.R.E's. H.F.I. 421 to 8th. Field Coy. to construct drying room for 5th.D.A.C..	*App.18
	22		Progress of Works Report for period 18/22nd. Oct. inclusive ** Companies warned to see that relieving companies of 2nd. Aus. Div. fully understand work on hand and to have all necessary handing over plans ready by noon 25th. Pioneers wired to make improvements TAYLOR'S DUMP and BIRR CROSS DUMP.	*App.19
	23		Appendix 20 gives a summary of the work done by Divl. Engineers & Pioneers since taking over this sector. * C.R.E's. HFI 445 to 15th. Field Coy. Wired them that on completion of mule track a deep dugout is to be started for P.O.O. at back of pill box at Cable Head on BROODSEINDE RIDGE.	* App.20
	24		Works report for week ending 24/10/17 rendered to D.H.Q. *	App.21
	26		** Military Medals awarded to :- No. 6149 Sapper G.L.V. McDonald, 15th. Field Coy. 7123       "       A.J. Wilson                   do 2833       "       R.S. Wilson                   do	
	27		Field Companies relieved by Field Cos. 2nd. Aus. Div. Relief and work allotment as per Engineer Instructions NO.4/170/27 * Notes on Employment of Field Cos. by Lt-Col. Carey * No. 132 C.S.M.(WO2) W.H. Wilkinson, 15th. Field Coy. transferred to H.Q.D.E. vice SMITH wounded & evacuated. Lieut. A.T. Ewart, 15th. Field Coy. evacuated on account of wound received 19/10/17.	*App 22 *App.23

*Job*



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Sheet 8.

Hdqrs. 5th. Aus. Div. Engineers.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
YPRES Sheet 28. I.14.b.5.5	Octr. 28		H.Q.D.E. moved to CAVALRY BARRACKS, YPRES, I.14.a.5.5.	
	29		Conference held at C.R.E's. Office, YPRES to determin nature of work to be done at Battery Positions to fit them for the coming winter. Proceedings as per App.24	App 24
	30		Progress of work for period 25th. 26th. & 27th. inst. submitted to D.H.Q. * From 28th. inst. Engineers working under CORPS.	App 25
	31		Casualties for the month of OCTOBER :-  Killed 2 Officers, 27 Other Ranks. ** Wounded 1 Officer. 57 Other Ranks.	
			Total Effective Strength as per B.213 of 26/10/17 19 Officers, 584 O.R. excluding Medical Officer. Casualties since that date :- Killed 20 Other Ranks. Wounded 1 Officer, 31 O.R. (included in ** above)	

*J. J. ...*  
Captain & Adjutant,  
Divisional Engineers,  
5th. Aus. Division..

War Diary

Appendix 1

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PROGRESS OF WORKS REPORT for week ending October 3rd. 1917.  
5th. Australian Divisional Engineers.

WORK.	Location.	Particulars & progress.	REMARKS.
<u>ROADS.</u>	Chateau-Glencorse Hell-Fire Corner- - HOOGE. H.21.b.3.9.  J.8.c.	Repairs and Maintenance  Repairs and maintenance. Two Artillery roads, one 150 yards <del>and</del> and One 375 yards formed. Formed roads to get guns to new position.	
<u>WELLS.</u>	See attached sheet.	5 wells sunk and one old well discovered.	Appendix.
<u>Strong Points.</u>	J.10.c.2.0.	Strong Point "Y" constructed, 50 yards long.	
<u>WIRING.</u>	Front & 2nd. Line.	Material s sent up. Wiring of front line with French wire and second line with double apron supervised.	
<u>DUGOUTS &amp; PILLBOXES.</u>	See attached sheet.	Survey of Dugouts & Pillboxes in Forward Divl. Area made.	See attached sheet.
Hot Food Containers.	BUSSEBOOM R.E. Work-shops.	Completed 320; 148 drawn by 5th.Aus.Div. 172 on hand.	
Hot Food Containers.	15th. Field Coy. <del>*****</del> 14th. Field Coy.	35 made & delivered to 15th. Bde. 24 to 1st. Divl. Supply Dump. 40 made and delivered to KRUISSTRAAT RE Dump.	
Gas Proof DOORS.	14th. Bde. Hdqrs.	9 doors fitted.	

*J. B. ...*  
Lieut-Col. RE.  
C.R.E., 5th. Australian Division.

APPENDIX.

## RIGHT BRIGADE AREA.

## CLUSTER OF PILLBOXES AT J.13.b.0.6.

No. 21.	Accommodation	32.	Good condition.	Draining reqd.
22		6	Good.	
23		15	Good.	
24		6	Good.	
25		15	Good	" " "
26		8	Good.	" " "
27		10	Good.	
28		6	Good.	

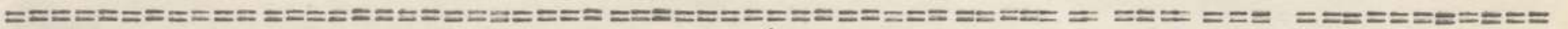
## LEFT BRIGADE AREA. Pill Boxes &amp; Dugouts.

J.10.b.1.7.	Pill Bx.		4 bunks.
J.10.a.7.8.	Dugout in BUTT.		96 bunks.
J.10.a.9.9.	Pill Box.		12 bunks.
J.4.c.1.1.	Pill Box.		4 bunks.
J.10.a.5.6.	do		End blown in 6' x 4' x 4'
do	do		Good 8 8 6
do	do		No roof 10 8 6
J.10.a.0.2.	(2) do		Good 10 10 6
J.10.c.0.9.	Pill Boxes (2)		Good 12 12 6
J.9.a.9.4.	Pill Box		Good 10 10 6
do	do		Bad <sup>splinter</sup> proof only 10 10 6
J.9.a.5.1.	do		{ Draining reqd. 12 x 12 x 6.
J.9.c.0.5.	two		{ Damaged. Pumping required
do	Pill Box		Bad condition. 12 x 10 x 6
do	two		Fair condition. 10 8 6.
do	Pill Box		6 compartments, damaged. 6x4x4
do	do		Splinter proof 6 x 6 x 4.
do	do		Good 12 x 12 x 6
do	two		Good 10 x 8 x 6.
J.9.c.2.5.	one		Good do
J.8.d.8.9.	two		do 6x6x4'6"
do	one		do 10x6x16 Dressing Station.
J.8.d.5.6.	one		Damaged 12x10x6 <sup>splinter proof only</sup>
J.8.d.5.4.	one		Serviceable 15x10x6 (Watery)
J.8.d.3.7.	one		Badly damaged do
do	two		{ Good, requires cleaning & pump out, 15x10x6
J.8.c.9.5.	three		One good 10 x 10 x 6
			One splinterproof 10x10x6
			One do 6x10x6

WELLS IN 5th. DIVISIONAL SECTOR.

Sheet 28

No.	Ident.	Size	Depth	Yield. galls.p.hour.	Notes
No.1.	J.8.c.4.14	4' x 3'	12' deep.	250	Timbered.
2.	J.14.a.5.9.	4' x 3'.	12' "	350	"
3.	J.8.d.8.1.	do	10' :	50	
4.	J.10.a.7.8.(BUTT)	4' x 2'	11'	-	
5.	J.14.b.3.3.	do	27'	14' water	Old well.
6.	J.14.b.8.6.	4'6" x 2'6"	14' "	100	Inside Pill box.



2/250

PROGRAMME OF TRAINING FOR WEEK ENDING 13/10/17, 5th. AUSTRALIAN DIVISIONAL ENGINEERS.

Date.	Time.	Locality.	Training	Remarks.
<u>14th. Field Coy. AE.</u>				
8th.	9 a.m.	Leave G.22.d.2.4.	12 miles route march without transport Dress;- Fighting Order.	Route will be given when information as to what roads can be used is supplied.
9th.	9 am to 12 noon 2 pm to 4 pm.	G.22.d.2.4.	Section training including kit inspection, S.B.R. drill etc. Section drill & rifle exercises including lectures by section officers.	
10th.	9 a.m.,	G.22.d.2.4.	12 miles route march with 1st. Line Transport. Dress Fighting Order.	Route later.
11th.	9 am to 12 N. 2 pm to 4 pm.	G.22.d.2.4.	Section training including kit inspection. S.B.R. drill etc. Section drill & rifle exercises including lectures by Section officers.	
12th.	9 am.	Leave G.22.d.2.4.	15 miles route march without transport . Dress fighting order.	Route later.
13th.	10 am 2 pm to 4 pm	G.22.d.2.4.	Inspection of Coy. in fighting order & 1st. Line transport. Bathing parade if it can be arranged.	
<u>15th. Field Coy.</u>	Under* orders to move into forward area.			

APPENDIX 2

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Date.	Time.	Locality.	Training.	Remarks.
<u>8th. Field Coy.</u>				
8th.	8.30 am.	Leave G.22.d.2.4.	Route March (6½ miles)	Route;- G.22.d.2.4. - G.22.c. - G.8.a. to G.27.d. - G.22.d.2.4.
9th.	8.30 - 12 n. 1.30 - 4 pm.	<del>Section &amp; Coy. drill</del> G.22.d.2.4.	Section & Coy. Drill. Artillery Formations. Laying of Strong Points and wire.	
10th.	8.30 a/m	<del>Route=March</del> Leave G.22.d.2.4.	Route March (10 miles)	G.22.d.2.4. - G.27.d. to RENNINGHELST to WESTOUTRE to M.17.c., via Renninghelst to G.22.d.2.4.
11th.	a,m. 8.30 - 12 n. 1.30 - 4 pm.	G.22.d.2.4.	Section drill. Rifle & musketry exercise. Wiring drill. Gas Drill. Exercise & Inspection....	
12th.	8.30 a/m	Leave G.22.d.2.4.	Route March (10 miles)	G.22.d.2.4. - G.27.d. - Renninghelst - Westoutre - M.17.c., via -" to G.22.d.2.4.
13th.	8.30 - 12 n. 1.30 pm.	G.22.d.2.4.	Section & Coy. Drill. Arty. formations. Sports.	
14th.			BATHING PARADE.	

(NOTE;- Camp guards throughout week.)

*J. P. O'Connell*  
Lieut-Col.,  
C.R.E. 5th. Australian Division.

APPENDIX. 13

✓  
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SECRET.Appendix 3.Headquarters, 5th. Australian Divisional Engineers.Engineer Instructions,  
No. 28/75/8.8th. Field Coy.  
14th. Field Co.  
15th. Field Co.  
5th. Pioneer Battn.  
File  
✓ W.D.

5th. Australian Division is responsible for completing the mule tramline from WESTHOEK to ZONNEBEKE, approximately 2000 yards by midnight on the 8th. inst.

Head of line said to be now at Anzac in the square 3A.

5th. Pioneers will use all available men on this work.

15th. Field Coy. will move into forward area to take over some of the works for which the Division is responsible. Allocation of work will follow.

Acknowledge.

Lieut-Col.  
C.R.E.  
5th. Australian Division.

6/10/17.

Headquarters, 5th. Australian Divl. Engineers.

8th. Field Coy.  
14th. Field Coy.  
15th. Field Coy.  
5th. Pioneers.,  
File.3.

✓ W.D. (2) App.

Subject;- RELIEF.

H. Q., 5TH AUSTRALIAN DIVL. ENGINEERS.
No. 3/170/26

(1) The 5th. Aus. Division (less Artillery) will relieve the 1st. Aus. Division in the line on the night 9/10th. October 1917.

(2) a. The 8th. Infty. Brigade will relieve the 3rd. Infty. Bde. in the front line. When relief is complete, the 8th. Infty. Bde. will not, in the first instance, have any troops disposed West of a line drawn North & South through JABBER WOOD.

b. The 15th. Infty. Bde. will be in support & will have no troops disposed West of CAMBRIDGE ROAD.

c. The 14th. Infty. Bde. will be in Reserve.

(3) Command of the Sector will pass to Divisional Commander 5th.Aus.Divn. at 10 a/m on 10th. October.

(4) Divisional Headquarters will close at SCOTTISH LINES at 10 a/m 10th. Octr. and re-open at YPRES RAMPARTS (I.14.d.1.6.) at the same hour.

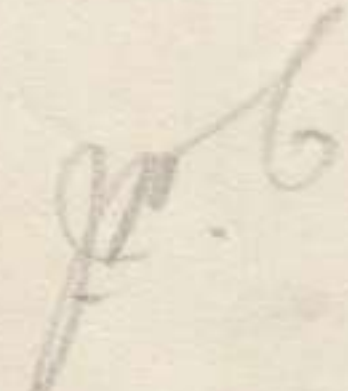
(5) 8th. Field Coy. Engineers will be in the line. 15th. Field Coy. Engineers will be Reserve Company.

(6) 14th. Field Coy. will be responsible for the Development of accommodation East of LEINSTER ROAD and West of WESTHOEK - FREZENBERG ROAD, also mule tracks and duckwalks within the same Area.

Map is attached giving the Divisional Boundaries.

(7) Acknowledge.

8/10/17.

  
Lieut-Col.,  
G.R.E.,  
5th. Australian Division.



Appendix 5

W/D  
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SECRET.  
COPY.

5th. Australian Division.

ADMINISTRATIVE MEMORANDUM NO. 28.  
issued in connection with 5th. Aus. Div. G.S. Order  
No. 168.

Headquarters,  
8/10/17.

1. RAILHEAD.

Railhead will open at DICKEBUSCH on 11th. inst.

2. DUMPS.

8th. Brigade - H.33.d.8.3.  
14th. Brigade - G.17.d.5.1.  
15th. Brigade - H.33.a.8.3.

3. PACK TRANSPORT

(a) Pack Transport of Brigades will report to Capt. CURTIS, A.A.S.C., at H.23.d.3.2., (old location of pack transport troop) at 9 a/m on 8th. inst. 5th. Pioneers & 5th. Div. Signals will report at same time (

(b) Spare Drivers. Spare Drivers as previously detailed will report at same time as Pack Animals.

4. BATTLE STORES.

Any of the following battle stores required will be demanded from D.A.D.O.S. at Advanced DADOS Store, Dickebusch;-

Bottles, water,  
Carriers, bottle water.  
Pack Saddlery.  
Cutters, wire mark 1.  
Cutters, wire long.  
Breakers, wire.  
Gloves hedging.  
Hot boxes, Aus. Pattern.  
Gum Boots, thigh.  
Ration Bags waterproof.

5. AMMUNITION. The following Ammunition Dumps are available for the Division.

Main Divl. Dump. - H.23.d.1.0.  
Advanced do - WESTHOEK.  
Brigade Dump - J.2.d.9.5.  
" " - J.3.a.8.3.  
" " - J.4.b.3.2.

(6). Water Points.

I.12.c.5.5. WELL J.2.d.9.0.  
I.22.b.7.5.  
I.11.d.4.5. TANKS. WESTHOEK.

Brigades in line will be issued with extra carts. These will be sent forward full to WESTHOEK or further if possible, daily. On return journey the 2nd. Water Cart, (empty), will be brought back.

7. DISPOSAL OF DEAD. Each Brigade will detail 1 N.C.O. for Duty under the Div. Burial Officer who will notify Brigades where the NCO should report.

Signed C.R.E. JENNINGS Capt.  
for Col. A.A. & G.M.G., &  
5th. Australian Division

8/14/15 Ed.Cos.  
Copy to

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APPENDIX. 5

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SECRET.

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INTER DIV. BOUNDARY

BOUNDARY

SOUTH CORPS

250 *CRE*  
 Headquarters 5th. Australian Divisional Engineers.

5th. Pioneer Bn.  
 8th. Field Co.  
 14th. Field Co.  
 15th. Field Co.

H. C.	
5TH AUSTRALIAN DIVL. ENGINEERS.	
No.	28/75/9
Date	9.10.17

Boundary between 8th. and 14th. Field Coy. will be a line north and south through JABBER HOUSE J.4.a.4.2. to coincide with Brigade boundary. 15th. Field Coy. will establish Dump for small stores, nails, paint, camouflage etc. at Post Office and supply 8th. and 14th. demands. 14th. Field Coy. will establish bulk Dump at BIRR CROSS for use of 8th. and 14th. Coys.. Wagon transport also secondary dump as far forward as possible on HOOGE Road for men portage when road blocked. LEINSTER Road Dump for temporary use of 15th. Brigade back Area only. 15th. Field Coy. get two lorries daily and will endeavour to fill urgent demands of 8th. and 14th. Coys. by using their <sup>54</sup> lorries from KRUISSTRAAT Dump to BIRR CROSS or HOOGE and thus save horse transport for work forward of BIRR CROSS. 14th. Field Coy. will keep in touch with Brigade Major 5th. D.A. and give Engineering advice and supervision when necessary for field gun tracks. One Battalion 14th. Brigade will be available shortly for getting duckwalks and shelter material to 8th. Brigade Area. 8th. Field Coy. will select forward Dump to which 14th. Field will deliver with above working Battalion when available.

Improvement of central area (15th. Brigade) will be carried on by direct arrangement ~~with~~ between 14th. Field Coy. and 15th. Brigade.

5.30 PM  
 9/10/17.

*Antony*  
 Lt-Col. R.E.  
 C.R.E.

5th. Australian Division.

PROGRESS OF WORKS REPORT FOR WEEK ENDING 10th. OCTOBER 1917.

Appendix 7.

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Services. Subject.	Particulars.	Formation responsib -le	PROGRESS OF WORK. Total Work.	State of completion.	Time reqd. for completion.	Remarks.
Roads.	Repairs & main tenance to plank roads.	Division	continuous	continuous	continuous	J.7.b.2.8. - J.7.d.9.2. I.12.b.9.1. to J.13.a.6.9. I.18.a.7.6. to J.13.a.6.9. J.13.a.6.9. to J.7.d.9.1.
Duckwalks	Repairs and maintenance	Div.	continuous	continuous	continuous	I.18.b.4.7. - J.1.d.7.0. & J.7.b.9.2.
Decauville	Westhoek - Zonnebeke	Div.	Track laid 535 yds. For -mation made 1735 yards.	Taken over by Corps on 10th. inst.		
Baths, dry- ing shed & floor treat- ment house	YPRES.	Div.		Just started	5 days.	Ground for building cleared & levelled & erection started. Repairs to approach road effected.
Accommo- -dation.	Divisional Headquarters	Div.	Erection of Cupolas, latrines etc	50%	4 days	
R.E. Stores Dump			Co. Dump			Approx 2929. Material received & pushed forward. Caddy Cart Lieut-Col. R.E. C.R.E. 5th. Australian Division.....

APPENDIX.

## WORKS REPORT.

10 to 14th. October 1917.

## DUCKWALKS.

D.28.d.7.3. to D.28.a.5.0. 600 yards laid.  
 J.4.a.3.3. to J.4.b.9.2. 200 yards laid.  
 From HELLES Track to Left R.A.P. 120 yards laid.

I.17.b.2.6. to I.18.a.8.8. 1540 yards  
 I.18.a.8.8. to BELLEWARDE RIDGE 500 yards.  
 BELLEWARDE RIDGE to J.7.b.5.0. 250 yards.  
 HELLES TRACK from J.7.b.5.0. forward 635 yards.

GATEWALK - 600 yards laid.

## WELLS.

- (a) D.29.a.1.2. sunk 7'
- (b) D.29.c.1.4. sunk 12'
- (c) J.7.b.5.5. depth 8'
- (d) J.7.b.7.0. depth 13'

R.A.P. at GARTER POINT, completed.

DUGOUTS ON WESTHOEK RIDGE. J.7.b.9.0. to J.7.b.9.7.  
 29 completed.

BATHS AND DRY CLOTHES STORE. - Complete.

FOOTBATH SHED, 30% complete.

DRYING SHED, 90% complete.

COMFORTS SHED, 50% complete

## ACCOMMODATION AT D.H.Q.

12 shelters, latrine, cookhouses erected.

## WESTHOEK - JABBER HOUSE, Tramline :-

Formation 870 yards Rails 265 yards.

Last report not in yet.

DUMP at BIRR CROSS ROADS :- R.E. Dump started.

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App 9

WORK DONE ON 14/10/17.

## DUCKBOARDS.

15th. Fd.Co. 1000 yards. Gate Walk.  
 14th. Fd.Co. 315 - 18" Helles Track.  
 8th. Fd.Co. 120 yards To Left R.A.P. from Helles Track.

## SHELTERS.

15th. Fd.Co. Baths complete. Dry clothes shed complete  
 Foot Treatment shed 30%. Drying shed 90%  
 Comforts Fund 50%. D.H.Q. 75%. YMCA  
 complete less floor.

14th. do WESTHOEK R. Soup kitchen, tea table complete  
 2nd. Soup K. commenced also shelter personnel.

8th. do Splinter proof Left & Right R.A.Ps, 50%

## WELLS.

14th. do A. I.7.b.5.5. - 7'6", "B" J.7.b.7.0. - 13'0"  
 8th. do "A" (new well) 7' "B"- 12ft.

## DUGOUTS.

14th. do Westhoek Ridge, 8 completed 2 pillboxes drain  
 8th. do Tunnel from rear of OP completed. Timbered  
 entrance from floor of pillbox broken thro'  
 Concrete dugout D.29.c.4.9. bailed & cleaned.

## ROADS.

15th. do Rd. LILLE GATE, spoon drained 50%

Drainage.

15th. do YPRES main drain opened & cleared.

250

WORK DONE  
15/10/17.

App 10<sup>22</sup>

14th. Field Co.

HELLES Track 267- 18" duckwalks laid.  
Two Soup Kitchens less Stables complete.

15th. Field Co.

Foot Treatment shed 70% complete.  
Comforts Shed 50% complete.  
D.H.Q. 60% complete.  
Y.M.C.A. second shelter 60% complete.

8th. Field Co.

"A" Well 13' and timbered, water available.  
"B" Well 13'  
Tunnel now secure.

15th. Field Co.

WESTHOEK Ridge 7 dugouts on hand.  
One Pill Box 50% cleaned out.  
Road at LILLE Gate causeway complete; drain cleared.

5th. Pioneers.

J.2.d.7.2. 50 yds. plank road Completed.

8th. Field Co.

Formation for Mule Track 300 yds. 90% complete  
from J.3.d.1.8. to J.3.d.8.5..

15th. Field Co.

Gate Walk 1260 yds. complete ; 130 yds. raised  
2'6" above swamp level.

5th. Pioneers.

WESTHOEK- JABBER HOUSE Tramline, 250 yds. formation  
crowned,  
160 yds. rails laid.  
Improvements.

8th. Field Co.

Forward R.A.P. 75% completed.  
No concrete for O.P.

250

23  
April

WORK DONE.  
16/10/17.

DUCKWALKS.

- 8th. Field Co. 350 yds. laid from J.3.c.8.8. towards GARTER POINT.
- 14th. Field Co. HELLES Track 310 - 18" (from BIRR CROSS ROAD to HANNEBEKE CREEK double duckboarded throughout).
- 15th. Field Co. GAZE WALK now joins Pioneer Track 1,500 yds. double (100 yds. raised on trestles).

SHELTERS.

- 14th. Field Co. Soup K'a. J.7.b.8.3. and J.7.b.8.9 completed.
- 15th. Field Co. Drying Shed 99%; C'Fund 60%; Foot treatment 90%; D.H.Q. 80%; Y.M.C.A. SHRAPNEL CORNER Complete.

WELLS.

- 8th. Field Co. "A" Well camouflaged and sandbagged - now complete. "B" Well stopped sinking at 14' 10' water may be drawn.

DUGOUTS.

- 14th. Field Co. 7 dugouts WESTHOEK Ridge now completed.

ROADS.

- (See Pioneers).

TRACKS.

- 8th. Field Co. 440 yds. mule formation except culverts.

DRAINAGE.

- 14th. Field Co. 500 yds. ditch J.2.d.6.2. to J.8.a.7.7.  
100 " " J.2.d.5.1. to J.2.d.4.3.
- 15th. Field Co. Continued drainage YPERLEE.

RAILWAYS.

- 5th. Pioneers. WESTHOEK-JABBER HOUSE Tramline 120 yds. formation completed, 280 yds. formation improved, 39 sets rails complete. 8.35 p.m. Railhead J.4.a.1.1.

R.A.Ps.

- 8th. Field Co. Hung up, no C.I. O.P. wrecked by direct hit.
- 14th. Field Co. Right Battalion WESTHOEK R.A.P..

WIRING.

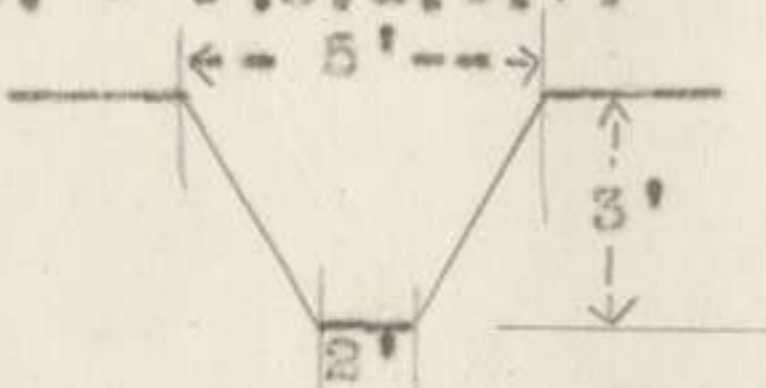
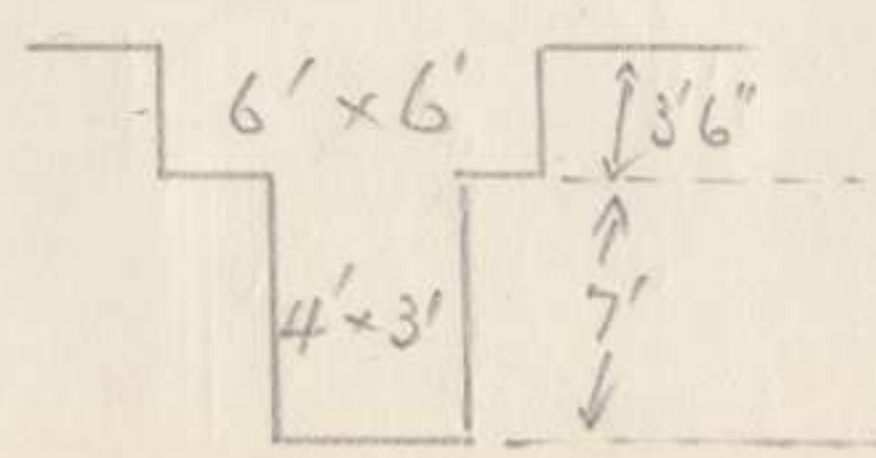
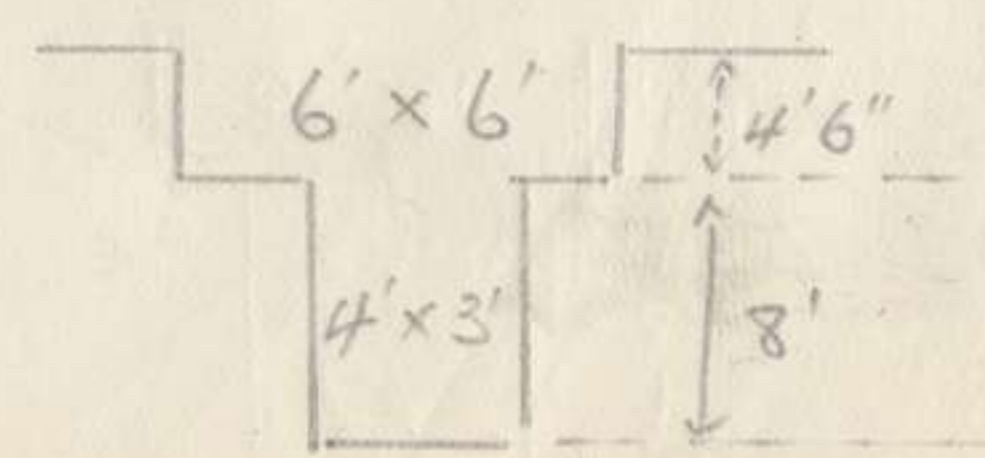
- 8th. Field Co. 200 yds. double French on left Batt. Front.



PROGRESS OF WORKS REPORT FOR WEEK ENDING 17/10/1917.  
5th. Australian Divisional Engineers,  
& PIONEERS.

Appendix 14.3

250

Subject	Particulars	PROGRESS OF WORK.			Remarks and details.
		Total work	State of completion	Time reqd. to complete	
ROADS.	Ditching 100 yds. 570 yds.				WESTHOEK - ZONNEBEKE Road J.2.b.50.15.- J.2.d.4.3. J.2.d.6.2. - J.8.a.6.7. Section 
	Repairs.	Repairs.	Complete.	--	Spreading bricks and filling holes, 200 yds. 11' wide. Rue St. Elizabeth, YPRES. I.8.c.4.3. to I.8.c.2.2.
	Causway.	25' long 37' wide	Complete.		LILLE GARE, I.14.a.2.3.. Two street drains cleared & opened.
	Artillery Rd.		10 yds plank Rd. completed.		J.2.d.7.2.
	ZONNEBEKE - BRICK KILN Rd.		300 yds. * side ditch		* also 300 yds. earth formation.
WATER SUPPLY.	WELL "A"	13'	Completed.		4' x 3' timbered, windlass and bucket, 10' water D.29.a.2.0.
	WELL "B"	14'	do.		4' x 3' " " " 11' " D.29.c.1.3.
	WELL "E" at CABLE HEAD.	Site cleared		5 days.	J.3.d.1.9..
	No. 1. WELL.			2 days.	No. 1. J.7.b.6.3. No. 2. J.7.b.7.1.
					 

APPENDIX. 12

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Subject.	Particulars.	Progress of work.		Time Req'd. to complete.	Remarks and Details
		Total work.	State of Completion.		
R.E.DUMPS	Brigade.	No material now on dump, it	being used		CABLE HEAD J.3.d.1.9.
	Divisional ) Brigade ) Brigade )	Located and material being	deposited.		BIRR CROSS ROADS I.17.b.1.9. HANEBECK J.8.b.4.9. CABLE HEAD J.3.d.2.9.
***	Company Dump BIRR Xroad.	Located and material being	deposited.		Divisional small stores I.6.c.4.3. YPRES. 135 yds formation and laying corduroy track, 560 sq.yds.platform. J.2.d.8.5.- J.3.d.&c.
DECAUVILLE.	ZONNEBEKE Tramline. WESTHOEK JABBER HOUSE Tramline.		350 yds. formation. 1373 yds.) formation) 163 yds nails laid. 380 yds. crowned.		97 sets put together, laid and fished up.
TRACKS.	Duckwalks 18" do. " do. do. 3' Mule plank. formation	800 yds. 800 " 800 yds. 1500 yds. 200 yds. 700 yds.	Completed. Completed. do. Complete. 7%. 50%.	Maintenance do. do. Governed by supply of material. 3 days.	HELLES TRACK D.28.d.7.3. to D.29.a.5.0. JABBER TRACK J.4.a.3.3. to J.4.b.9.2. Helles to ANZAC. Taken over by 14th. Brigade on 14/10/17 from HANEBECK forward. GATEWALK 230 yds raised on trestles above swamp. (from J.3.d.1.8. to J.4.a.20.05.)
AC COMMOD- ATION.	Splinter- procf. do. do. do. Dugout. do. do. do. do. Pill Boxes	60 men. 12 stretchers. do do. do. do. do. do. do. do.	Completed. 75%. do. Completed. do. do. do. do. do. do.		At I.12.a.2.3. R.A.P.. D.28.d.6.7. do. J.4.b.7.5. WESTHOEK RIDGE. 118 accommodating 404 men. 2 Soup Kitchens. 1 dugout for personnel. 1 R.A.P. 5 drained.

Subject.	Particulars.	PROGRESS OF WORK.			Remarks and Details.
		Total work.	State of Completion.	Time req'd to complete.	
-ACCOMMODATION.	Splinter-proof Dugouts.		Completed		R.A.P. WESTHOEK RIDGE, drained.
	do.		do.		GARTER POINT J.3.a.5.4.
	Elephant Shelters & English Patn.	7. 11.	do. do.		Field Co. I.14.a.4.3.
	1. steel.		20%.	16 hours.	5 at D.H.Q. I.14.a.9.3., 2 at Drying shed I.8.c.25.25.
	1. do.		20%.	16 "	At D.H.Q., LILLE GATE I.14.a.9.3., 13'6" x 9'
					At lock No.9. DOLLS HOUSE I.19.b.2.5. At GORDON HOUSE I.16.b.3.3.
SIGN POSTS.	Two dozen notice boards (Wells, to front line system, Bn.H.Qrs., tracks etc.) made and erected.				Material being carted to I.16.a.6.4. for further shelters for Infantry.
	20 (keep to the right, HELLES TRACK, 5th. Aus. Div. Dump., BIRR Xroads R.E. Dump. in, out).				
	GATE WALK. 8 boards.		erected.		Notice boards being repaired for YPRES Streets.
	Drying Shed. 5 "		"		
MISCELL-ANEOUS.	O.P. at D.29.c.60.65.				
	Gas proof doors.				Tunnel 4'x 3" driven in from rear 25' and timbered hole cut through floor of Pill Box and connection made with tunnel. Concrete got up to site. Damaged by direct hit.
	Foot Baths. 10.		Complete.		At R.A.P. at D.28.d.6.7. and Relay Posts at J.4.a. & J.3.b.3.2..
	Drying Shed. 28 x 20 (etc.)		Complete.		For 15th. Brigade.
	Baths. 30 x 20, 14				Accommodation at this installation erected. Drying shed takes 1000 prs. gum boots, 1000 prs socks.
	Clean clothes store.		do.		I.8.c.25.25., Rue. St. Elizabeth, YPRES.
	Foot treatment shed.		do.		
	Comforts shed.		do.		
	Y.M.C.A.		do.		
	Drainage.		5%.		At SHRAPNEL CORNER, I.20.a.65.90.
***TRACKS.	Duckwalks.		Completed double duckboards, maintenance only required.		YPERLEE Drain from LILLE GATE through YPRES.
					HELLES TRACK I.17.b.2.6.- J.2.?65.15. 2330-18' duckboards laid.

Tracks	Quikwalks	Completed suitable duck boards Maintenance only required	<del>HELLS TRACK</del> HELLS TRACK I 17 b 2 6 - J 2 65 15 2330/15" duckboards laid
Accommodation	Splinter Proof Dignets do do do do  PILL BOXES Splinter Proof Dignets do	Completed	WESTHOEK RIDGE 118 accommodating 404 men 2 Camp Kitchens 1 dignet for personnel 1 RAP. GARTER POINT J 3 a 54  S dumped RAP WESTHOEK RIDGE drain  Field Coy I 14 a 83
Sign Posts			Erected 10/ KEEP TO THE RIGHT 6/ HELLES TRACK 1/ 5 <sup>th</sup> AUS DIV DUMP 1/ BIRRE X ROADS RE. DUMP 1/ IN 1/ OUT 10 made for 15 <sup>th</sup> INF BDE
Misc	Foot Batts		Barracks Myon oc 14 <sup>th</sup> F.C.


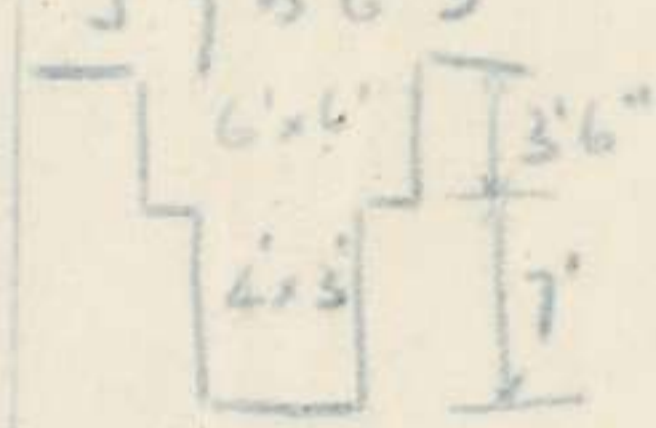
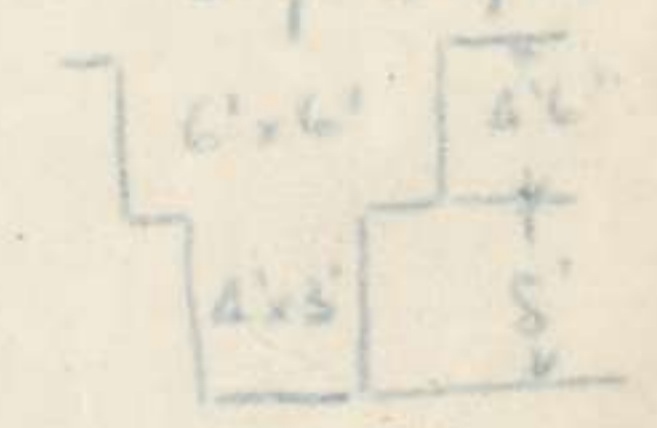
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APPENDIX 13

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Progress of Works Report for week ending Oct 17  
14<sup>th</sup> Field Coy Australian Engineers

Subject	Particulars	Progress of Work Total Work	State of Completion	Time reqd to complete	Remarks - details
Roads	Ditching 100 yds 570 yds				WESTHOEK - ZONNBERGEE ROAD J.2.6.5015 - J.2.043. J.2.062 - J.8.067 Section 
Water Supply	N <sup>o</sup> 1 WELL N <sup>o</sup> 2 WELL			2 days	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>N<sup>o</sup> 1</p> <p>J.7.563</p>  </div> <div style="text-align: center;"> <p>N<sup>o</sup> 2</p> <p>J.7.571</p>  </div> </div> <p>Water requires 1 scoop bleaching powder</p>
RE Dumps	Divisional Barrade Barrade	} located and material deposited		being	BIRR X ROADS I 7 1 9 HANE BEEK J 8 5 4 9 CABLE HEAD J 3 4 2 9

APPENDIX 17

PROGRESS OF WORKS REPORT FOR WEEK ENDING Oct 17, 1917.

250

15<sup>th</sup> FIELD Coy. AHS. ENGRS.

MAP REF. BELGIUM SHEET 28N.W/29000.

SERVICES-SUBJECT	PARTICULARS.	PROGRESS OF TOTAL WORK.	WORK STAGE OF COM- PLETION	TIME TO COMPLETE	REMARKS.
1. ROADS.	REPAIRS.	Spreading fresh filling holes in 200 yards of road. 11ft wide.	COMPLETE	-	RUE STELIZABETH YPRES ROUND DRYING SHEDS BUILDINGS. I 8 c. 4. 3 b I 8 c. 2. 2.
	CAUSEWAY	25ft long 37' wide on PAVE' ROAD.	COMPLETE	-	RUE DE LILLE AT LILLE GATE I 14 a. 3. 3. Two drains cleared & repaired
4 R.E DUMPS	Coy DUMP - DIV SMALL STORES.	Located & material being deposited.	-	-	Nails paint etc for DIVN. I 8. c. 4. 3. POST OFFICE YPRES.
6. TRACKS.	DUG IN WALK	1500 yards double width walk	COMPLETE	-	GATE WALK 230' raised on trestles above swamp rest of WALK is on beavers ground levels connects LILLE ROAD from I 14 c. 75. 70 to PIONEER TRACK at I 15. b. 4. 8. 5 at DIVN. I 14 a. 9. 3. 2 at DRYING SHEDS etc. I 8 c. 25. 25 at DIVN. LILLE GATE I 14 a. 9. 3.
7. ACCOM- MODATION	ELEPHANT SHELTERS and C. CLASS ENGLISH PATTERN SHELTERS.	7 ELEPHANT SHELTERS. 11 STEEL SHELTERS. 13' 6" x 9' 1 STEEL SHELTER	COMPLETE erected & camouflaged COMPLETE erected & camouflaged. 20% complete 20% complete	- - 16 hrs. 16 hrs.	at LOCK NO 9 DOLLS HOUSE I 19. b. 2. 5. at GORDON HOUSE I 16. b. 3. 3. material being carted to I 16 a. 6. 4 for further shelters for infants.
10. SIGN POSTS.	GATE WALK NOTICES. NOTICES TO DRYING SHEDS etc.	8 boards on GATE WALK 5 notices directing to DRYING SHEDS etc.	COMPLETE	-	Notice boards being prepared for YPRES. STREETS along RUE DE LILLE.
11 MISCELLANEOUS.	DRYING SHED	28 x 20 furnace racks etc	COMPLETE	-	Accommodation at this installation erected DRYING SHED takes 1000 pairs GUMBOOTS 1000 pairs SOX. 5 <sup>th</sup> AUG. DIV TYPE. I 8 c. 25. 25. RUE STELIZABETH YPRES. AT SHRAPNEL CORNER. I 20 a. 65. 50.
	BATHS	30 x 20, 14 showers kents etc	COMPLETE	-	
	CLEAN CLOTHES STORE	16 x 14	COMPLETE	-	
	FOOT TREATMENT SHED	30 x 20 with troughs kents etc.	COMPLETE	-	
	CORRIBS FURNISHED	20 x 12 shed + 20 x 6 shelter.	COMPLETE	-	
	Y.M.C.A. steel shelter.	2 wood steel shelters at SHRAPNEL CORNER. erected. kitchen latrine.	COMPLETE	-	
	Revetting, duck walks betweens etc round YPERLEE DRAIN	General clearing up for Camp cleaning drain from LILLE GATE	COMPLETE 5%	16 hrs. labour available	YPERLEE DRAIN runs from LILLE GATE thru YPRES to YSER CANAL. Overburden being removed & drain being cleared at LILLE GATE I 14. a. 9. 3.

*Handwritten signature and date:*  
H. J. ...  
10. 15. 17

APPENDIX. 15

29

Duplicate

SUBJECT	PARTICULARS	PROGRESS OF WORK		TIME REQ TO COMP.	REMARKS AND DETAILS
		TOTAL WORK	STATE OF COMPLETION		
1. ROADS	NIL				
2. WATER SUPPLY	WELL "A" 4x3 timbered. WELL "B" do. WELL "C" at CABLE HEAD	13 feet. 14 feet. Site cleared (J.3.d.1.9)	Completed. do. -	- - 5 days.	D.29.a.2.0. Windlass and bucket. 10 feet of water. D.29.c.1.3 do. do. 11 ft. do. Belt mells camouflaged and sandbagged round. Notice boards erected + tracing tapes laid from duckwalk track. CABLE HEAD. J.3.d.1.9.
4. RE. DUMPS.	BRIGADIE.	No material now on	dump, it being used as soon as delivered		
5. DECOUVILLE	NIL				
6. TRACKS.	DUCKWALK (HELLIES TRACK) do. (JABBER TRACK) do. (HELLIE TO ANZAC) MOLE. PLANK TRACK FORMATION	600 YDS. 800 YDS. 500 YDS. 100 YDS 700 YDS	Completed. completed. do 7% 50%	(Requires maintenance) do. do. governed by supply of material } 3 days	From D.28.d.7.3 to D.29.a.5.0. (18") J.4.a.3.3. to J.4.b.9.2. (do). Maintenance of duckwalks from HANNEBIEK forward until taken over by 13de Coy 14.10.17. From J.3.d.1.8 to J.4.c.20.05.
7. ACCOMMODATION.	SPLINTER PROOF SHELTERS.	To accommodate 60 men To accommodate 100 men do	Completed 75% 75%	-	At I.12.a.2.3 (Coy. camp). RAP. D.28.d.6.7. RAP. J.4.b.7.5.
10. SIGN POSTS.	Two dozen notice boards (Wells, To front line systems, BN H.Q. Posts etc.) made and erected.				
11. Misc.	O.P. at D.29.c.60.65. Gas Proof Doors at RAP at D.28.d.6.7 and RELAY POSTS at J.4.a. and J.3.b.3.2.	Tunnel 4x2 driven in from rear 25 feet and timbered. Hole cut through floor of Pill Box and connection made with tunnel. Concrete material got up to side. Work in progress.			

W.G. Farquhar Major  
i.c. 8<sup>TH</sup> Field Coy A.E. 17-10-17.

APPENDIX. 12

250  
WORK DONE  
18/10/17.  
-----

appendix B

31

SHELTERS. 15th. Field Co.

Y.M.C.A. Gordon House 60%.

Work on forward Infantry Camp.

Comforts Shed complete.

Work on 8th. Field Coy. Camp.

Drying Shed complete.

Dentist Hut at DOLLS House complete.

8th. Field Co.

RIGHT R.A.P. Splinter proof complete, heavy sandbag wall front of  
Pill Box Door and Gas proof door.

LEFT R.A.P. Splinter proof completed, additional Gas Proof door  
erected.

WELLS.

8th. Field Co. "C" J.3.d.1.9. sunk and timbered 6'.

ROADS.

PIONEERS. Artillery Road J.2.d.7.2. due south 70 yds.  
planked.

TRACKS.

8th. Field Co. Mule track formation to J.4.a.35.20. total  
820 yds.. 100 yds planks laid. Total 200 yds.

14th. Field Co. J.8.a.6.7. to J.8.a.2.5. three mule  
crossings put in.

DRAINAGE. 14th. Field Co. 220 yds. ditching J.8.a.6.7. to J.8.a.2.5.

R.A.P.'s. 14th. Field Co. WESTHOEK RIDGE R.A.P. 10'x 5' completed.



W 250

Appendix 14

Headquarters, 5th. Australian Divisional Engineers.

H. Q.	
AUSTRALIAN DIVL. ENGINEERS.	
No.	38/64/31
Date	

Headquarters,  
5th. Aus. Div.

Herewith samples taken from 6 Pill Boxes in this area. Each sample has slip of tracing cloth inside bag bearing number of Sample.

Sample No. 1. Pill Box J.4.b.4.1. close to JABBER TRACK. Walls made of Concrete Blocks, and roof Reinforced concrete, about 4' thick. Used as relay post.

Sample No. 2. Pill Box J.4.b.3.9 ., end of JABBER TRACK. 10' x 8' inside measurements. Walls of Concrete Blocks, and roofs Reinforced Concrete about 6' thick . Used as Battalion Headquarters.

Sample No. 3. Pill Box D.29.c.60.65. on BROODSEINDE RIDGE, 6' x 6'6" x 6' high. Walls concrete blocks. Roof reinforced concrete 4' *thick*. Roof shattered. Intended for use as O.P.

Sample No. 4. Pill Box D.29.a.3.3. on BROODSEINDE RIDGE. 6'6" x 6'6" x 9' high., inside measurements. Walls concrete block. Roof Reinforced Concrete 4'6" thick. Used as Battalion Headquarters. Judge this to be of recent construction.

No. 5. Sample. Pill Box D.28.d.6.7. in ROMULUS WOOD. 18' x 7' inside measurements. Walls of concrete blocks. Roof reinforced concrete about 3' thick. Used as Forward R.A.P.

Sample No. 6. Partly constructed Pill Box at J.2.c.3.3. Size 26' x 18'. Partly made of blocks and reinforced concrete. Timber Casing of partly built walls is still standing, which rather suggests this is of recent construction.

19/10/17.

Lieut - Col.,  
C.R.W., 5th. Australian Division.

WORK DONE  
19/10/17.  
-----

DUCKBOARDS.

14th. Field Co. 150 yds. relaid HELLES TRACK.

SHELTERS.

8th. Field Co. IDEAL POST work hindered by shell fire.  
15th. Field Co. 8th. Field Coy. Camp 50% completed.  
GORDON HOUSE Shelter 90%.

WELLS.

8th. Field Co. "C" Well sunk & timbered 5'. total 11'.  
14th. Field Co. No. 1. Well finished, 11' deep yield 100  
gallons per hour.  
No. 2. Well finished, 14', yield 80 gallons  
per hour. Fitting tanks & making facilities  
for drawing.  
Well HOOGE CHATEAU opened up.

PILL BOX.

14th. Field Co. One Pill Box finished.  
Four 75%.

TRACKS.

8th. Field Co. Mule Track to J. 4. a. 35. 35. total 900 yds.  
plank laid 250 yds. Total 450 yds.  
(includes 50 yds. Mule Mats).

DRAINAGE.

14th. Field Co. 270 yds. ditching J. 8. a. 2. 5. to J. 7. b. 5. 4.  
15th. Field Co. YPERLEE Drainage opened up at Rue de LILLE  
and Rue de LOMBARD.

WIRING.

8th. Field Co. 175 yds. double French Right Battalion front.

250 ✓  
SECRET.

Headquarters 5th. Australian Divisional Engineers.

ENGINEER INSTRUCTIONS.  
 No. 69/1/9.  
 -----

8th. Field Co.  
 14th. Field Co.  
 15th. Field Co.  
 War Diary.  
 File.  
 -----

1. The forward portion of the left inter-divisional boundary is to be re-adjusted as follows:-  
 From the old boundary at J.3.a.5.5. - thence along road to junction of roads at D.27.b.95.20.- S.E. corner of ZONNEBEKE LAKE - cross roads D.23.c.25.50.- thence to D.23.d.1.8.
2. The deck-walk track known as the ZONNEBEKE "E" or KIT KAT track and the GARTER POINT - ZONNEBEKE Road as far as the Brick Kiln, will be common to both Divisions.
3. The change of boundary is to be effected by mutual arrangement between the G.S.C. 14th. Infantry Brigade and Right Brigade 4th. Australian Division on the night 20th/21st. October.
4. ACKNOWLEDGE by wire.

20/10/17.

Lt-Col. R.E.  
 G.R.E.  
 5th. Australian Division..

SECRET.

Headquarters 5th. Australian Divisional Engineers.

AMENDMENT TO ENGINEER INSTRUCTIONS 69/1/9.  
-----

8th. Field Coy.  
14th. Field Co.  
15th. Field Co.  
War Diary ✓  
File.  
-----

Reference Engineer Instructions No. 69/1/9 :-  
Delete para. 1, and substitute :-

1. The forward portion of the left inter-divisional boundary is to be re-adjusted as follows :-

From the old boundary at J.3.a.5.5.- thence along road to junction of roads at D.27.b.95.20.- S.E. corner of ZONNEBEKE LAKE - road junction at D.22d.6.5.- along road to D.23.c.89.55.- thence to front line at about D.23.d.1.7..

2. ACKNOWLEDGE.

20/10/17.

*J. B. ...*  
 Lt-Col. R.E.  
 C.E.E.  
 5th. Australian Division..

TYPES of MULE TRACKS.80/179/34.

(See Blue Print Attached)

Type A. This is made up of Beech Slabs in 5' or 6' lengths with a sleeper of the same material under for joint. It appears to be a very satisfactory type in use, but is very heavy and uneconomical in material. It should be laid on a formed surface with a drain on each side and care should be taken that the sleepers are horizontal.

Type B. This is somewhat lighter than type "A" and will probably not last so well owing to the planks getting out of the horizontal laterally.

Type C. These corduroy mats were used on the GINCHY - BEAULENCOURT mule tramline as a temporary measure for crossing bad spots only. For this they were perfectly successful, but there would appear to be some doubt as to whether a mat of this description would stand continuous usage through a winter. The system is very much lighter than types A & B and is very easily carried into position and put down. It would be useful to have a stock of type C for hasty crossing of any gap caused by shell fire, even in a mule walk made in the more permanent type A pattern.

Type D. This is a compromise between A & B and is a somewhat awkward article to transport to site.

Type E. This was used on some patches on the GINCHY - BEAULENCOURT mule tramway and proved satisfactory. No sleepers were used but, as the line was only required, during the 3 weeks or so of the BAPAUME Advance, the test could not be considered good enough to apply to a mule walk being laid down to last for a winter.

Type F. This is similar to type A but approximately half the weight. Longitudinal battens on the edge are probably necessary and while it may prove suitable for mules, it is doubtful whether pack horses would find it satisfactory. Should type C however prove not to have lasting qualities, I think that type F might be developed on forward tracks with the proviso that mules only should be used on these tracks.

-----

It is recommended that type C be fully experimented with, as satisfactory results from this system probably depend on evolving a good method of wiring the pickets together.

Field Coy.

For favour of your remarks.

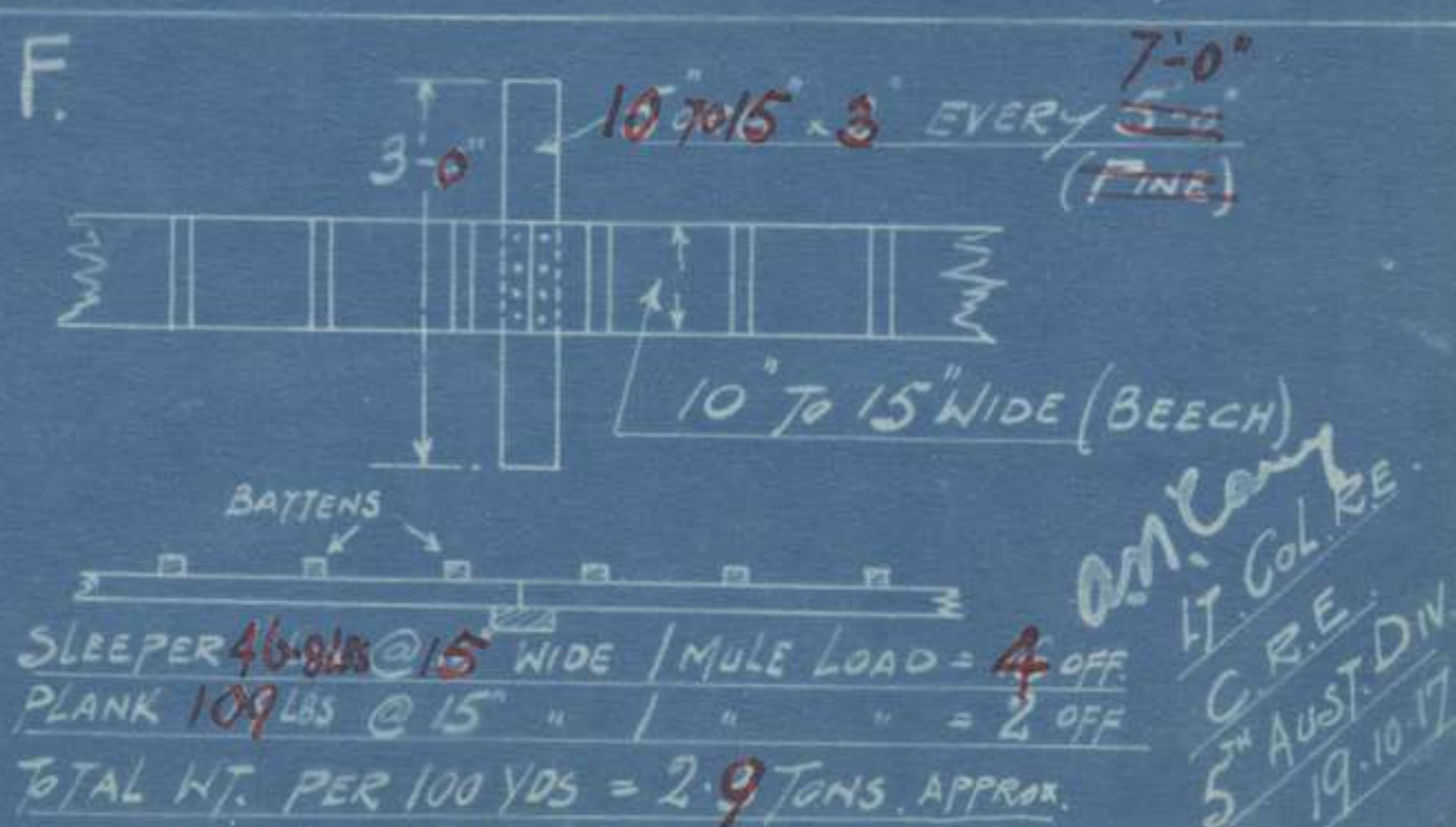
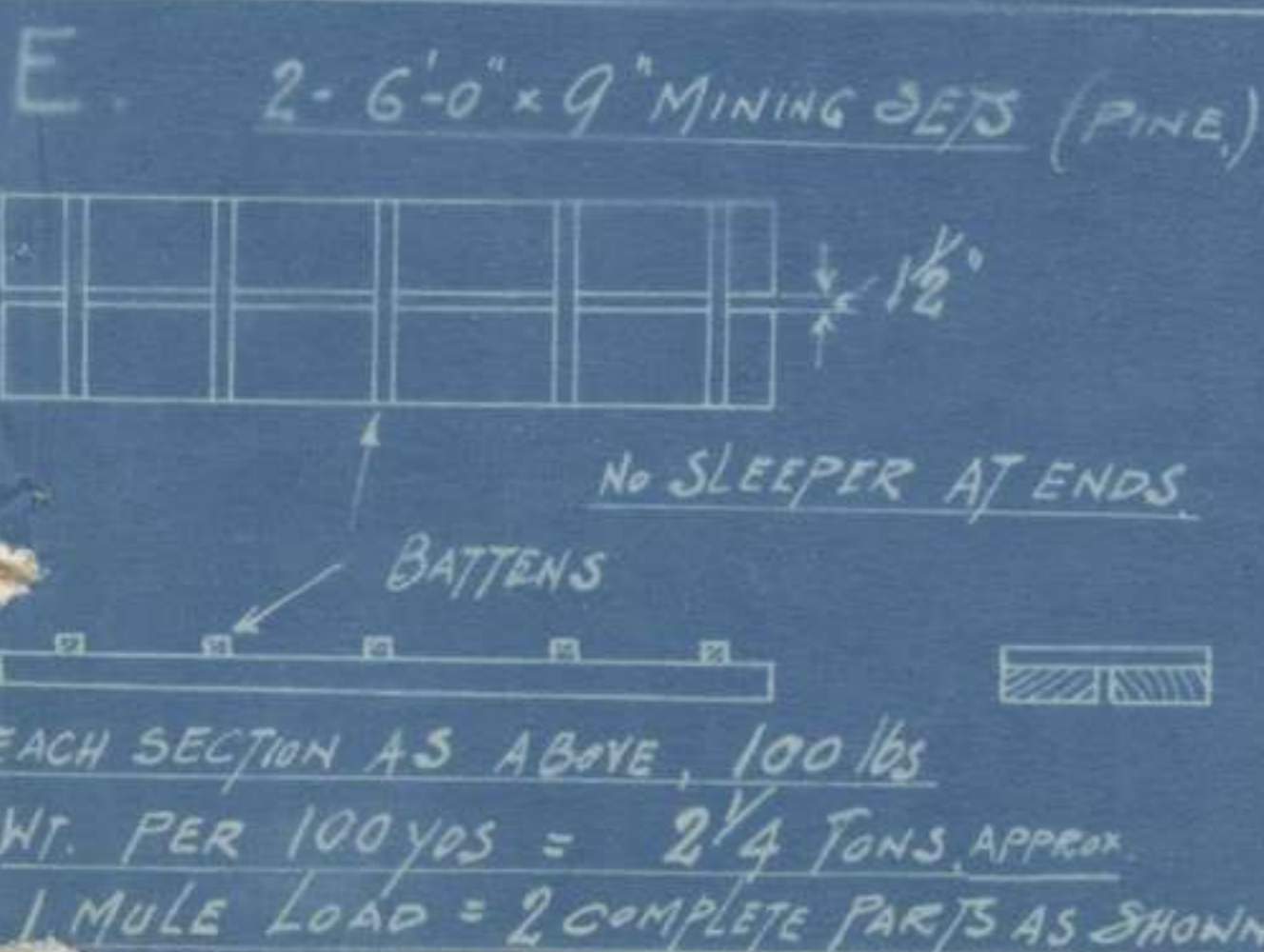
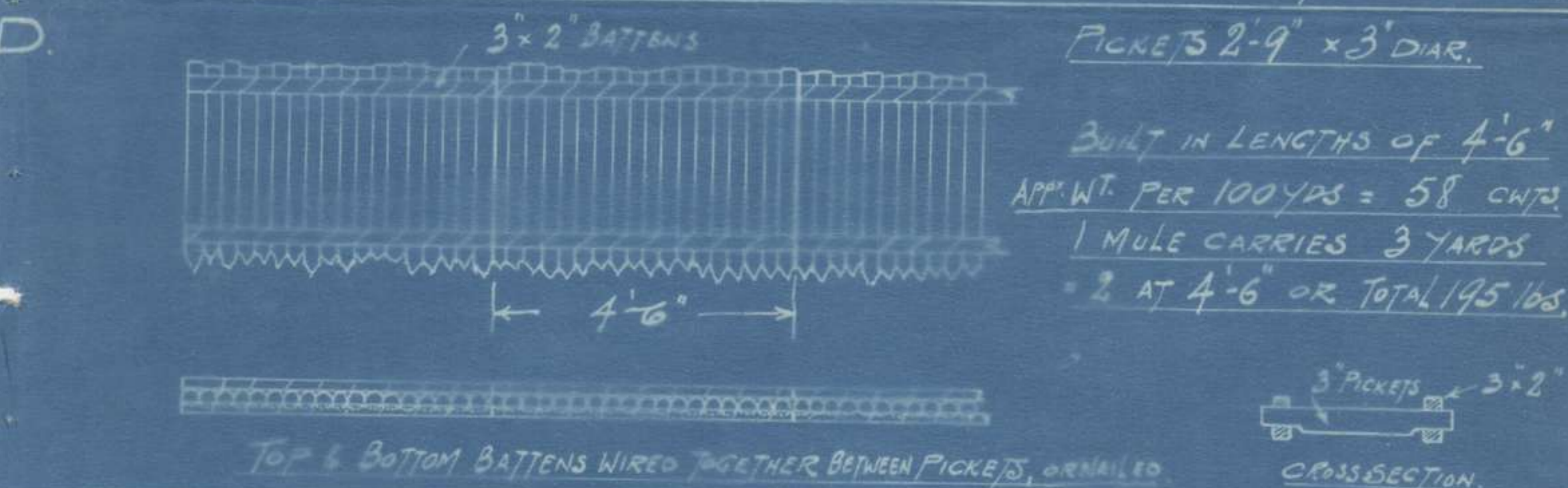
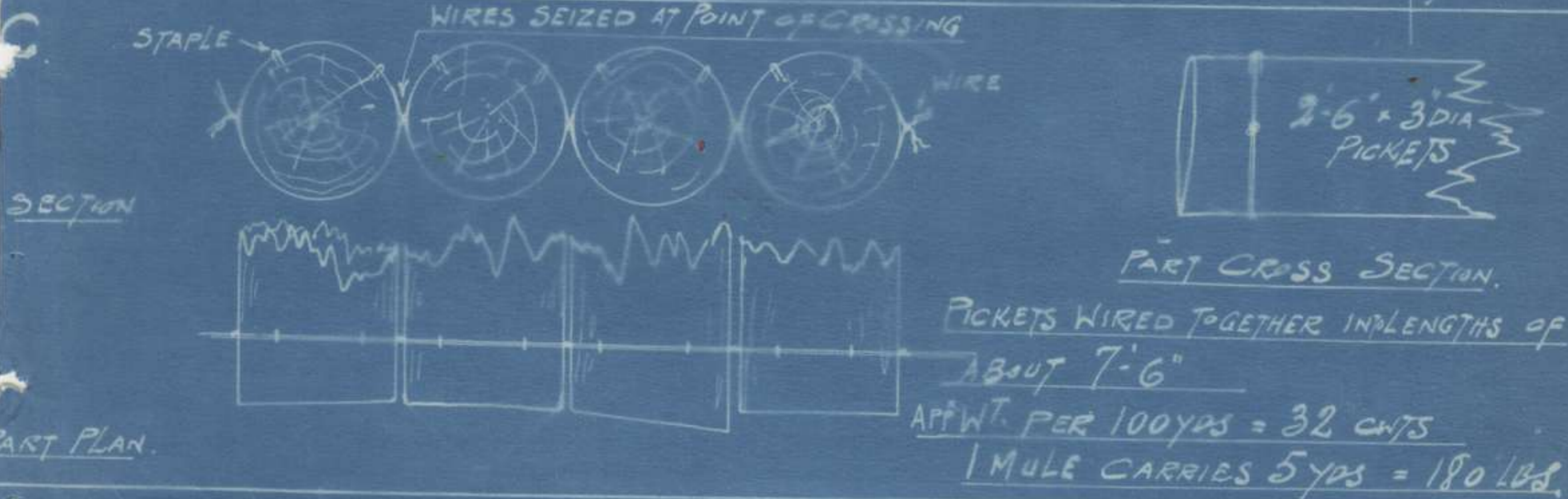
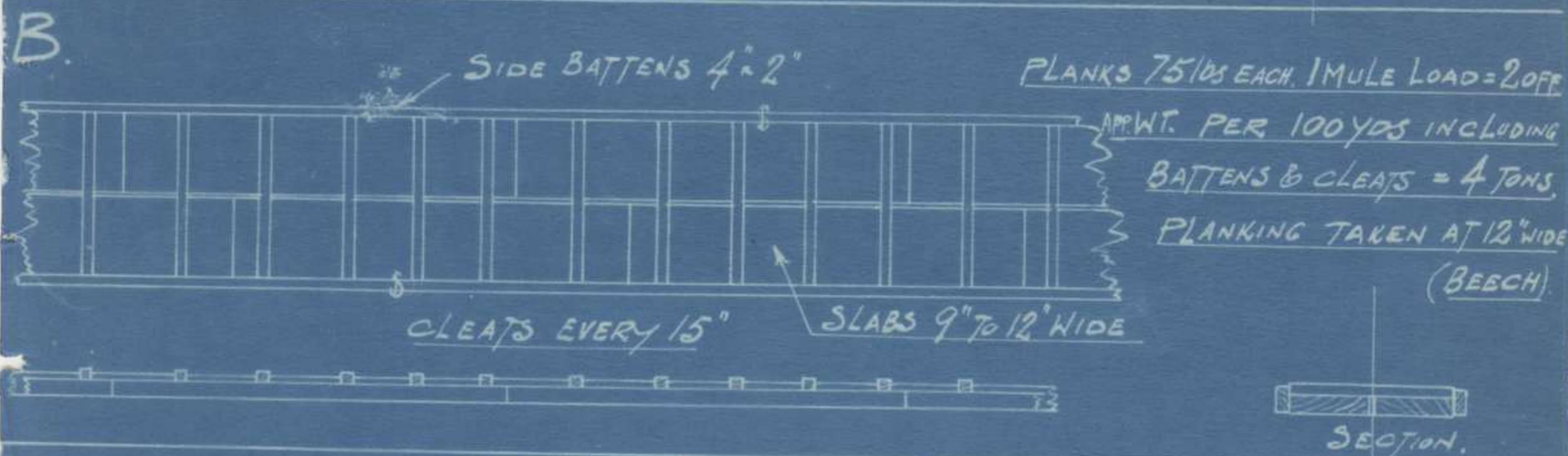
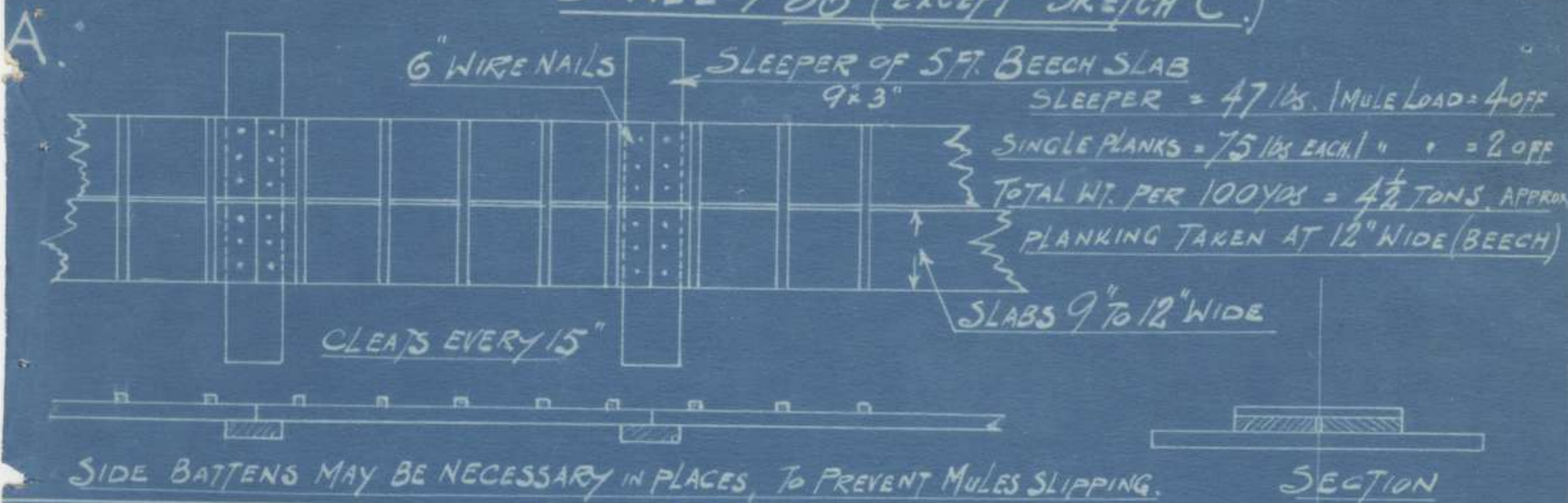
21/10/17.

Captain & Adjt.  
for Lieut-Col.  
C.R.E., 5th. Aus. Division.

# TYPES OF MULE-WALK.

Appendix 14 37

SCALE 1/36 (EXCEPT SKETCH C.)



C. R. E.,  
5th AUSTRALIAN  
DIVISION.  
No. 80/197/364  
Date 20/10/1917

WELLS.

Alpha 18

250

WELL "A". D.29.a.1.2. (ROMULUS WOOD), 13' deep, camouflaged and sandbagged. Complete. 4'x3' 10' water  
*windlass bucket.*

WELL "B". D.29.c.1.4. 14' deep, complete and notched boarded, 10' water. 4'x3' 11' water  
*windlass bucket*

WELL "C". J.7.b.6.3. 11' deep, yield 100 gallons per hour. 4'x3'  
*1 measure blending powder* *100" allow tank plug up powder*

WELL "D." J.7.b.7.1. 14' deep, yield 80 gallons per hour. 4'x3'  
*do.*

WELL "E". J.3.d.1.9. (Cable Head) 14' deep, water available.

WELL "F". I.18.b.5.8. (HOOGE CHATEAU) windlass in position, side wall sandbagged. *work strengthened*  
*(old well repaired)* *yield 50 gallons per hour*  
*Requires 1 measure or blending powder.*

C. R. E.,		
5th AUSTRALIAN		
DIVISION.		
No.	17	68/33
Date.	21	10/17

APPENDIX. 18

38



PROGRESS OF WORKS REPORT FOR PERIOD 18th. to 22nd. Octr. 1917.  
5th. Australian Divisional Engineers & Pioneers.

Appendix 19 <sup>250</sup>

SERVICE. Subject.	Particulars.	Responsibility.	PROGRESS OF WORK. for period.	Remarks. (Combined total.)
ROADS	Artillery Rd. J.2.d.7.2. running South	Division	230 yards planked. 1 bridge. 30 yds. formed & fascined	Total 350 yards to J.2.d.7.2. 120 " to J.2.d.6.2.
	From D28c35 running S.E.	"	150 yds. formation 300 yds. drainage. 2 culverts.	Total 450 yards formation. 1000 " drainage.
Water Supply	Well "E" J.3.d.1.9.	"	Water available	Sunk to total depth of 14'
	Well "F" I.18.b.5.8.	"	do	Windlass in position. Side wall sand-bagged. <del>11' deep. Yield 100 galls. p. hour.</del>
	Well "C" J.7.b.6.3.	"	Completed.	11' deep. Yield 100 galls. p. hour.
	Well "D" J.7.b.7.1.	"	do	14' deep. Yield 80 galls. p. hour.
Decauville	Westhoek - Jabber House Tramline.	"	140 yards. formation. 240 yds. improvement of formation.	From J.2.d.7.6. to J.4.b.1.6. (Total of 82 sets rails put in; 1 loop; end of line ballasted; 2 dead ends and points.)
TRACKS.	J.3.d.1.8. to J.4.a.35.35.	"	380 yards formation. 650 yards planking.	Total 1200 yards formation. 750 yards planking. 3 mule crossings put in.
Drainage.	From J.7.b.9.4.) to J.2.d.55.16.)	"	790 yards drain dug. 1 mule crossing put in.	

APPENDIX. 19

Subject.	Particulars.	PROGRESS OF WORK.		Remarks and Details.
		Total work .	State of Completion.	
ACCOMMODATION.	Splinter-Proof	2 Shelters.	Complete.	At MOATED GRANGE, for range finding section, 15' x 10' 6".
	do.		do.	At GORDON HOUSE for Y.M.C.A.. Kitchen 1 hut 14' x 9' & Shelters.
	do.	12 Stretchers.	do.	R.A.P..D.28.d.6.7.
	do.	do.	do.	R.A.P..J.4.b.7.5.
	do.	Steel Shelter.	do.	LOCK No.9, DOLLS HOUSE, I.19.b.2.5.
PILL BOXES .		Four.	Drained & Cleaned out.	On forward slope of WESTHOEK RIDGE.

250

Appendix 20

WIRE.

A continuous belt exists across the Divisional front in front of the Post Line running through J.5.b. central, D.29.d. & b. to D.23.d.3.7.. About 30% of this is single apron, the balance being French Wire. There are two gaps in the line where it crosses the marsh at D.29.b.5.2. & 2.7. approximately. The former of these two gaps is covered by a belt of French Wire in front of it; the latter is reported to be impassable. Wire has been sent forward for a continuous line just in rear of the BROODSEINDE Road for the Support line. The material for this is at site and work commenced to-day. Wiring has been commenced on ANZAC RIDGE from J.3.d.7.3. to J.3.d.4.6.approx.

FORWARD WATER SUPPLY.

Five wells have been dug and are in use. Two on the BROODSEINDE RIDGE; one at CABLEHEAD at J.3.c. central and two in WESTHOEK RIDGE.

Schedule of WELLS.

- "A" D.29.a.1.2. (ROMULUS WOOD) 13' deep, camouflaged & sandbagged. Complete. 4' x 3'. 10' water. Windlass & bucket.  
-----
- "B" D.29.c.1.4. 14' deep. Complete & noticeboarded. 11' water. 4' x 3'. Windlass & Bucket.  
-----
- "C" J.7.b.6.3. 11' deep, yield 100 gallons per hour, 4' x 3', One 100 gallon Tank & plug in position. One measure of bleaching powder necessary.  
-----
- "D" J.7.b.7.1. 14' deep, yield 80 gallons per hour, 4' x 3'. One 100 gallon tank & plug in position. One measure of bleaching powder.  
-----
- "E" J.3.d.1.9. (CABLEHEAD) 14' deep, water available.  
-----
- "F" I.18.b.5.8. (HOOGE CHATEAU. Old well repaired). Windlass in position, side walls sandbagged; not strengthened. Yield 50 gallons per hour. One measure of bleaching powder.  
-----

RAILWAYS.

The Corps Line from WESTHOEK towards ZONNEBEKE was worked upon in J.2.d. & J.3.a.. 20lb. rail laid and loops put in and a branch was taken up at about J.2.d.7.6. running through J.3.c & d, and through JABBER HOUSE to the road running S.E. from the ZONNEBEKE Brick Kiln. This branch is 20lb. track throughout.

MULE TRACKS.

Mule track has been made branching from the WESTHOEK -ZONNEBEKE Road on ANZAC RIDGE along the top of the Ridge into J.3.d. and then paralleling the tramway of the ZONNEBEKE Road. This Mule Track has been planked and corduroyed by various methods which are under trial through J.3.d. & 4.a.. The corduroying of the portion from the main road to J.3.d. is now in hand. The mules appear to find a double width plank with cross battens at 15' centres satisfactory to walk upon. This track was blown out in several places this morning but is being repaired.

DEEP DUGOUTS.

A tunnel was made from the back of the O.P. on the BROODSEINDE RIDGE in under the floor. The concrete floor was cut for this purpose, but the Bosche has now shelled this Pill Box so that it is of little value except as a burster course for a deep dugout entrance. Mining sets for this are in stock at BIRR CROSS ROADS and it is intended to start the work as soon as the mule track reaches the BROODSEINDE RIDGE and material can be sent up by mules. A deep dugout at this point would serve for the accommodation of the Signallers on the head of the buried cable as well as for the accommodation of F.O.Cs. Deep dugouts are being put into the WESTHOEK RIDGE by the First Australian Tunnelling Co.

ROADS.

A fascined road has been built for the Artillery from the WESTHOEK LOOP at J.8.c.0.4. to Battery sites about J.8.d.1.3. Plank roads have been built for the Artillery from the WESTHOEK - ZONNEBEKE Road J.2.d.5.1. to J.8.b.6.8 and from J.2.d.7.2. to J.9.a.1.6.. A plank road has been put into the 5th. Aus. Div. R.E. Dump at BIRR CROSS ROADS at which lorries can unload and wagons load, thus avoiding blocking the main road with either material or vehicles. At TAYLOR's Dump 40 yards of road has been relaid and about 130 yds. of new road constructed to enable the Artillery to deal more rapidly with the receiving and issuing of ammunition. 5th. Aus. Pioneers have built considerable portions of the plank road while working under the Corps and during the recent heavy shelling parties of Engineers have on two or three occasions been diverted from their jobs to assist in repairing the Corps Roads. 5th. Pioneers have made the road from D.28.a.0.1. to J.4.b.1.4.; cut side drains, providing culverts and corduroying where patches were possible.

DUCK WALKS.

A duckwalk track has been laid from a point at LILLE GATE about 200 yds. south of LILLE GATE to join up with Pioneers track in I.15.b.4.7.. This gives through communication for the Reserve Brigade by duckwalk from LILLE GATE to the Western extremity of HELLES TRACK on LEINSTER ROAD. HELLES TRACK has been relaid from this point and diverted in CHATEAU WOOD to avoid the badly shelled area near the CHATEAU WOOD Road and so loop as a continuous track to the left Battalion Headquarters on BROODSEINDE RIDGE. A branch was taken off HELLES TRACK at J.3.b.9.3. to Right Battalion Headquarters and is now being continued and curved to the left to join up with left Battalion Headquarters, as it is found that the direct route to left Battalion Headquarters is very badly shelled and is very expensive in maintenance. A branch has been put from HELLES to ANZAC from J.3.c.8.8. to J.3.a.3.8.. A considerable number of similar branches have been constructed and duckwalks provided to floor R.A.Ps. and similar places, also the wells behind WESTHOEK RIDGE.

DRAINAGE.

A considerable number of culverts have been placed in the forward area under tramways, mule walks and plank roads. Drains have been dug along the WESTHOEK-ZONNEBEKE road, on the north side of the road from WESTHOEK to 100 yds. beyond HANEBEK; on the south side of the road for about half that distance. The HANEBEK has been cleaned and widened below the road for about 100 yds.. The canal flowing through YPRES has had a good deal of work done on it; both clearing the stream and removing debris from the top of the flat archways opposite D.H.Q. which are shewing signs of giving way.

(4)

SHELTERS.

On the WESTHOEK RIDGE accommodation for 314 men has been provided in Splinter-proof dugouts. This accommodation is entirely additional to that shewn on the map handed over by the 1st. Aus. Division which included a considerable number of German Pill Boxes. The accommodation is distributed as shewn in area A.B.C.&.D. in YPRES Drying sheds and baths for the Division have been erected and fitted with all accessory requirements such as - cloth-stores, foot treatment shed and Comforts Fund Shed. Sixteen splinter-Proof shelters have been erected at D.H.Q.. Two Field Coys. have built their own accommodation. Two splinter-proof shelters 15'x 10'6" for Sound Ranging Section have been built at I.16.b.3.3. and on the WESTHOEK RIDGE. Five Pill Boxes on WESTHOEK RIDGE have had Sump holes cut in the floors and trench pump# holes fitted.

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PROGRESS OF WORKS REPORT FOR WEEK ENDING 24/10/17.  
5th. Aust. Engineers and Pioneers.

SERVICE. Subject.	Particulars.	Responsibility.	PROGRESS OF WORK for period.	Remarks. (Combined total).
ROADS.	Artillery Rd. Divn. J.2.d.7.2. running South		<del>300 yds formation</del> 350 yds. plank completed.	
	SONNEBEKE - BRICK KILN.		300 yds. formation. 600 yds. side ditch cut.	
	TAYLORS DUMP.		5 Culverts. 215 yds. cord- uroy. 125 yds. road ribboned.	
	Rue de LILLE YPRES. DITCHING.		Repairs, one drain opened. 490 yds. 300 yds. 4 mule crossings.	J.8.a.60.65. to J.7.b.9.4. J.2.d.55.05. to J.8.b.0.7.
	COMPANY CAMP. I.8.c.3.3.		Ground cleared & levelled.	
WATER SUPPLY	WELL "E" J.3.d.1.9.		16'6" deep	complete 200 gallons per hour.
	( WELL "C" J.7.b.6.3.		Completed. 11' deep	100 gallons per hour.
	( Tracks have been laid from adjacent track, notice board erected & splinter-proof protection made.			
	( WELL "D" J.7.b.7.1.		Completed. 14' deep.	100 gallons per hour.
	( Tracks have been laid from adjacent track, notice board erected & splinter-proof protection made.			
	( Lift & Force pump & 100 gallon tank in position at each well, also with Splinter-proof protection.			
	BOUGE CHATEAU "F". I.18.b.5.8		Complete, & cleaned out.	80 gallons per hour.
	( Side strengthened, roof protection, drainage, steps cut & track laid to join HELLES TRACK.			
	<del>*****</del>			

APPENDIX. 21

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DECAUVILLE.	WESTHOEK - TABBER HOUSE.	783 yds.formation.2 dead ends put in.Maintenance. Ballasting.Sidings put in.		From J.2.d.7.6.to J.4.b.1.6. Planking now being laid between rails.
TRACKS.	Mule Track. Duckwalks.	600 yds.formation.700 yds. planking. 350 yds.repairs Completed.Maintenance. Repairs.250 yds.repaid on trestles. Relaying of track to R.A.P. 404 yds.laid.(40% complete)	25% complete. 50% complete.	J.3.d.1.8. to J.4.a.35.35. HELLES TRACK. I.17.b.2.6. to J.2.d. 65.15. From J.8.b.3.7. to J.8.b.2.5. From Rt.Bn.H.Q.to Left Bn.H.Q. J.4.b.9.5.to J.5.a.4.6.to D.29.c.5.0. to D.29.c.central. D.28.b.8.5.to D.29.a.2.5.to D.29.d.5.9 (ANXAC WALK to Left Bn.H.Q.). Reverse slope WESTHOEK RIDGE.from plank Rd.past B.H.Q.to CAMBRIDGE or KIT KAT Walk.
ACCOMMODATION.	DENTIST HUT. R.A.P. <del>V.M.O.A.</del> DIV.OBSERVERS R.A.P. Splinterproof R.A.P. do. Coy.Camp. DRYING ROOM. SOUND RANGING Section.	Cupola Shelter. do do. 7 Shelters. Steel shelter & Sandbags. do. do. do. Splinter proof 12 stretchers. do. do. do. 6.C.I.14'x 8',4 kitchens. 15'x 25'(700 men) Cupola dugouts, splinter proof.	Complete. do. 75% Complete. do. do. do. do. 75% Complete.	I.19.b.2.5. D.28.c.1.9. GORDON HOUSE, I.16.a.central. D.29.a.4.3. J.2.d.8.6. D.28.d.6.7. #J.4.b.7.5. I.8.c.3.3.(Ypres). I.19.a.7.8.(For D.A.G.) 2/15'x 16'6" MOATED GRANGE.I.16.c.6.7.
SIGN POSTS.	Erected at Dumps, Well, Erected at I.S.c.3.3.	MULE Crossings, Direction Boards, water,		Street names in YPRES.Total 34 boards



WIRING.	Front line BROODSEINDE RIDGE.	700 yds. single concertina	50%.	1,400 yds to be done. Now erected from BROODSEINDE behind Rd. on top of Ridge.
MISCELLANEOUS.	8 Gas-Proof Doors at HALF WAY HOUSE, I.17.c.4.7. 8, foot Baths completed for 8th. Inf. Bde. 2 shelters 14' x 9' at I.16.b.2.3. completed for I.M.C.A.. YPERLEE Drain (YPRES) general clean out.			

SECRET.

Headquarters 5th. Australian Divisional Engineers.

ENGINEER INSTRUCTIONS.  
No. 3/170/27.  
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- 8th. Field Co.
  - 14th. Field Co.
  - 15th. Field Co.
  - 5th. Pioneer Bn.
  - War Diary ✓
  - File.
- 

1. 5th. Divisional Field Companies will hand over their works to the Field Companies of End. Division before mid-night 27th./28th. October as under:-

13th. Field Co.	to	7th. Field Co.
14th. Field Co.	to	5th. Field Co.
5th. Field Co.	to	6th. Field Co.
5th. Pioneer Bn.	to	End. Pioneer Bn.

2. Field Companies and Pioneers will come under the Chief Engineer for work as under :-

- 8th. Field Co. - Stabling and Butting.
- 14th. Field Co. - 2 Sections at disposal of Corps Heavy Artillery. Balance of Company - Butting and Stabling.
- 15th. Field Co. - Winter Battery Positions on the HANDBYER.

5th. Pioneer Bn. will take over before noon tomorrow from End. Pioneer Bn. the road from Railway Station ZONNEBEKE to SAIRE D. 51. d. 5. 4. to D. 16. d. 2. 6. Maintenance of

- (a) Duckwalk from I. 12. b. 2. 1. to J. 7. b. 8. 7.
- (b) Duckwalk from I. 11. c. 9. 7. to J. 1. d. 2. 9.
- (c) Duckwalk from I. 16. b. 4. 7. to J. 1. d. 7. 0. & J. 7. b. 9. 2.

For the ZONNEBEKE - SAIRE Road it is estimated one Company Pioneers be sufficient.

100 men of the Royal WORMSTERS now camped outside the REBIN GATE are also available for this work.

10 tip drays are available at FREZEBERS for carting bricks from the Church on to the road.

More horse transport can be obtained if it can be more usefully employed:

The early completion of this road is considered a tactical necessity by Corps.

3. ACKNOWLEDGE.

27/10/17.  
3.30 p.m.

Lt-Col. R.E.  
C.R.E.  
5th. Australian Division..

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NOTES ON EMPLOYMENT OF FIELD COMPANIES.

1. Attached Infantry. Essential when operations are contemplated for each Field Coy. to have 100 Infantry permanently attached to it for the operation. These should join if possible two or three days beforehand and should not be changed during operations. ~~During standing trench warfare they should not be relieved more than once a fortnight.~~ It is recommended that these attached Infantry should be supplied from reinforcements direct and not drawn actually from the Brigade.
  
2. Engineers are geographical Units. One of their chief values is in their through knowledge of the sector they are working in and in consequence of their ability to locate things accurately and quickly. For this reason they must stay in the line longer than the Infantry and it is therefore essential that they shall be fairly well housed and sufficiently far back to get rest at night. A company can do good work if it is housed not more than 6,000 yds. behind its most forward work. If it cannot be reasonably housed within this distance or approximately so it is generally advisable for it to have one or more sections housed well forward and to relieve these sections every few days as may be necessary from these forward sections. One or two N.C.Os. or men should be attached to Battalions and in special cases even to Companies in line during trench warfare but not during operations.
  
3. Wiring. During Battle conditions such as POLYGON WOOD and BROODSEINDE RIDGE it is considered that French Wire has enormous advantage over any other form, chief reason being that it is incomparably lighter and therefore far less labour is required to get up to the position required and to put any out when it is there. This value is accentuated under heavy artillery fire when the wire may have to be frequently renewed. It will be more accentuated as the warfare becomes more open and advances are made for greater distance. It is thought that Infantry Schools should lay very much greater stress on the use of French wire and simple methods anchoring it with screw pickets, sandbags or staples or even simply pressing the lower edge into the mud.
  
4. Water Supply. The value of sinking wells well forward is sometimes overlooked. The carriage of water is a very important item and requires many mules or large carrying parties. When the water has to be brought from 5/6,000 yds. back the labour required in carrying is almost invariably out of all proportion to the labour required to sink a few wells.
  
5. Notice Boards. For operations it would seem desirable that a standard iron notice board on a round iron rod should be turned out in quantities, one somewhat similar to those turned out for the Signal Service would probably be suitable.

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6. Compasses. Generous issue of luminous compasses with an open face and a dead beat action is very essential. During the battle men are usually too shaken to hold a prismatic compass steady enough to allow it to settle, also valuable time is wasted which may cost the man his life. Under these conditions it has been found necessary to place the compass on the ground to give it a chance to settle, a procedure which is obviously undesirable for advancing Infantry. One of the chief reasons for the necessity of this is the enormous clouds of dust and mud raised by the modern barrage which at times limits the view to 300 or 400 yards.
7. Communication Trenches. These are expensive in labour and material for construction and still more so for upkeep. In badly shelled country they are only really essential where the Infantry front lines are close together, are heavily manned and there is comparatively little artillery, and even then they are only essential in the M.G. Zone. If the warfare is at all mobile labour is far better expended on the ~~substantial~~ improvement of duckwalks, rule tracks, roads etc. If the warfare is stationary the probability is that the labour should be expended in deep dugouts.
8. Back Defence Lines. For an Army with superiority of men, munitions and moral to do a lot of work on lines more than 3000 yards behind the front at the expense of the comfort of the front line troops is misdirected energy. It is far more important to have well fed, energetic men in the front line, and to be able to get ammunition and stores up to them quickly than it is to have a good back line of defence and only tired and perhaps hungry men in front.
9. Traffic. Separation of different forms of traffic each on to its own track is desirable for economy in construction of tracks and for efficiency in use. This will become more marked as the army deteriorates and the advance covers a greater depth.
10. Framways. Divisional Tramways should be entirely under the Division and should not be shared between two or more Divisions as dual control is bound to lead to a lack of efficiency.

CONFERENCE HELD AT CAVALRY BARRACKS IPHRS 4 p.m. ON  
29/10/17 REFERENCE ACCOMMODATION FOR CORPS HEAVY ARTILLERY.

(Present: C.R.E. 5th. Aus. Division, O.Cs. 14th. & 15th.  
Field Companies A.S.. Major ALLEN representing 28th.  
M.A.S. and Capt. J.W.C. Cobbs, 57<sup>th</sup> HRC)

The following information was obtained :-

(1) Accommodation for personnel.

Six inch Howitzers have six men at the gun. Sixty pounders have five men at the gun. These men work shifts of twenty four hours on and 24 hours off.

For each battery a B.C. post is required with accommodation for three Officers, three telephonists and two orderlies; also accommodation for two wireless operators who are not relieved. The B.C. post is best situated centrally behind the battery and 40 to 50 yards from it. The distance of the accommodation for the men on duty should be short enough to allow of the men opening fire in two and a half minutes from receipt of order by day and eight minutes by night. Fifty yards is considered a reasonable distance. Shell accommodation for the gun crews is not a necessity. The majority of men killed on the battery are killed by splinters. When the battery is being directly strafed the whole of the battery personnel move about 200 yards to flank. It is therefore evident that splinter proof accommodation is normally sufficient, but that where shell proof accommodation such as can be given in a deep dugout is feasible, this should be given if possible for the whole establishment. It is preferably sited that its entrances are so close to the battery as to allow of men opening fire within two and a half minutes and eight minutes given, but is still valuable if supplied within 200 yards and splinter proofs supplied at the gun

2. POSITIONS.

Batteries 329 and 170 now at J.S.b. are to be moved up to the 5th. Divisional Tramway on ANZAC Ridge. 117 and 1-1W will then move into the J.S.e.b position. 253 is understood to be staying at J.L.C.S.S. and is on the Light Railway at the back of WESTROSE Ridge. 226 is at J.L.d. 20.25., 248 at J.7.b.72.26..

No work has been done on the positions at ANZAC Ridge on the 5th. Divisional Tramline. The first requirements are the provision of platforms here, followed up by splinter proof accommodation for the working shifts of the gun crews and B.C. Post, followed up in turn by shell proof accommodation in deep dugouts for Pill Boxes as may be found most convenient. The positions of 329 and 170 at J.S.b. require Platforms improving and accommodation improving on the same lines as detailed for the ANZAC Ridge position.

The 15th. Field Coy. will deal with the ANZAC Ridge positions. The 14th. Field Coy. with the J.S.b. positions, dealing direct as far as possible with battery and Group Commanders.

The 15th. Field Coy. will make special study of a concrete block design for a type plan Pill Box suitable for use at bad ground where deep dugouts are not feasible.

The 14th. Field Coy. will make a special study of the

drainage and construction of platforms for 6" Howitzers and 60 pounders. Each Company will submit reports as early as possible. The 15th. Field Coy. will also report on the practicability of providing deep dugouts in the ANZAC Ridge and will carry out any work they may think fit in this direction.

H. C.,	
5TH AUSTRALIAN	
DIVL. ENGINEERS.	
No.	48/5/4
Date	29.10.17.

WORKS REPORT 25th. to 27th. October 1917.

Appendix 22 250

Relieved by 2nd. Divl. Engineers 27th. Oct. 28th. to 31st. Field Coys. under Corps.

SERVICE.		Progress of Work.	State of Completion.	Remarks.
Subject	Particulars.			
TRAMLINE.	Near WESTHOEK.	180 yds. rails laid.	Complete.	For A.T. Coy. making Deep Dugouts.
MULE TRACK	J.3.d.1.8. to J.4.a.35.35.	300 yds. planking laid.		Also repairs & maintenance.
DUCKWALKS	General repairs and maintenance.			
R.E.DUMP.	BIRR CROSS ROADS.	130 yds corduroy road drainage etc.		Widening Loop in Dump.
WELLS.	"C" J.7.b.6.3. "D" J.7.b.7.1.	50 gallon tank erected. 50 gallon tank erected.		
GAS PROOF DOORS.	HALFWAY HOUSE I.17.c.4.7.	6 more doors completed.		Total 14 doors.
ACCOMMOD- ATION.	GORDON Rd. CAMP.	3 huts completed .		Total. 7 huts complete. 1 hut 70% " 1 " 25% "

APPENDIX. 25



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APPENDIX