

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

Tunnelling & Survey

**Item number:** 16/4/21

**Title:** 3rd Australian Tunnelling Company

November 1917



AWM4-16/4/21

3RD AUSTRALIAN TUNNELLING B Coy.
No. 83
Date

Army Form C 2118.  
356

WAR DIARY  
or  
INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Summary of Events and Information

Remarks and references to Appendices

Place	Date 1917	Hour	Summary of Events and Information	Remarks and references to Appendices
	Nov. 1		<p>The area worked by the Company embraced the LENS - LOOS - HULLUCH - ST. ELIE - VERMELLES Sectors. Company Strength on the 1st November: A.I.F. 23 Officers, 623 O.R's. Attached B.E.F.: 6 Officers, 248 O.R's.</p> <p><u>WORK COMPLETED</u>:- Installed Forge and Fan for Tool sharpeners at Hay Alley. <u>WORK in PROGRESS</u>:- Includes a variety of O.P. and Dugout work at LENS, &amp; LOOS, and for accomodation off the Main Permanent Subways. Special Listening Reports investigated.</p>	
	Nov. 2		<p><u>WORK COMPLETED</u>:- Repaired Exit to Quarry Bay Tunnel (G.12c 45.55 Sheet 44a). Completed in Nelson Trench (N.2a 15.85) alterations to Bullfinch O.P. <u>WORK in PROGRESS</u>:- In permanent tunnels excavations for Dugout accomodation. Cutting out curve from Manning Tunnel to mine lateral, and driving for well chamber off Border Tunnel. Laying rails to Power Plant. In Lens and Loos Sectors work on dugout construction in Congress and Commotion Trenches, and in Huxley (H.31d # 50.60) and Horse Trench (H.25d 80.40). Completing work on Professor and Nelson O.P's. <u>CORRESPONDENCE R.&amp;.I.</u>:- Received from 46th Division G.984/6 Ref. Details of T.M.E's at G.18a 90.98. Copy of Certificate from R.E. Bridging School Ref. Lt W.W. Grainger and L/Cpl Fuller.</p>	Sketch "A" Appendix 1 " 1a
	Nov 3		<p><u>WORK COMPLETED</u>:- Completed Boring for Ventilation Dugouts "J" in 10th Avenue. <u>WORK in PROGRESS</u>:- Dugout construction and salvaging sets from O.G. mine Galleries HILL 70. Dugouts for garrison Artillery, and O.P's in LENS Sector. <u>CORRESPONDENCE R.&amp;.I.</u>:- Received from 11th Division G.S.5/1 Ref. Hostile Mining. <u>COMPANY ORDER 535</u>:- 14 O.R's returned to Australia 13-10-17.</p>	Appendix 2.
	Nov 4		<p><u>WORK COMPLETED</u>:- Strutted and lined Platoon Dugout, also Summer house for living at surface above Btn H.Q. in 10th Avenue Tunnel. Completed Dugout for Coy S.M's in St. Elie Tunnel. Placed doors on Tunnel dugouts. <u>WORK in PROGRESS</u>:- Includes work on Professor O.P., putting in curve at junction off Manning Tunnel with Mine Lateral. Driving for Well chamber off Border Tunnel. Company Strength: A.I.F. 23 Officers, 623 O.R's. Attached B.E.F. 6 Officers, 248 O.R's.</p>	

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	1917			
	Nov. 5		<p><u>WORK COMPLETED:-</u> Erected Stoves in Cookhouse off 10th Avenue Tunnel. Effected re-installation of water pumps off St. George's Tunnel. Borehole to Surface for delivery column. Work on dugout construction at LENS, and LOOS, in progress.</p> <p><u>COMPANY ORDERS 537:-</u> 28 O.R's Struck off strength from 4-11-17.</p>	
	Nov. 6		<p><u>WORK in PROGRESS:-</u> Sections engaged chiefly on Dugout construction, salvaging O.G. sets, and in making O.P's for Artillery. Extensions at tunnel systems.</p> <p><u>COMPANY ORDERS 538:-</u> Captain A.J.HILLMAN &amp; LT.H.RUSSEL transferred to No.4 Section, and LT.J.W.ALLEN to No.3 Section. 1011 Spr GODDEN E.E. promoted L/Cpl</p> <p><u>CORRESPONDENCE R.&amp;.I.:-</u> List of Mine Rescue Apparatus at H.Q. and in Trenches. (5-11-17. R.E.7533/1/1 from Eng.in Chief G.H.Q. Ref.Certificate from Bridging (School.</p>	Appendix 3 " 3a
	Nov. 7		<p><u>WORK COMPLETED:-</u> Off 10th Avenue Trench (Sheet 44a G.17b 75.18) 1 Platoon Dugout. Repaired 6" Newton T.M.E. off Northern Tunnel. At Congress Trench, extra chambers completed, and entrance to Btn H.Qrs.</p> <p><u>WORK in PROGRESS:-</u> Dugouts and Emplmnts Loos, Lens, and Hulluch Front Line Sectors.</p>	Sketch "B"
	Nov. 8		<p><u>WORK COMPLETED:-</u> Off 10th Avenue Tunnel Platoon Dugouts "J" (G.17b 95.28) also 2 chambers and inclines for the Left Group R.A. H.Q. (Sheet 44a M.15a 90.90). Re-arranged exhaust pipe at Power Plant. Camouglaging and rearranging large spoil dumps at HULLUCH.</p> <p><u>WORK in PROGRESS:-</u> Work on improvement of Dugout accomodation at the permanent tunnels/. Dugout extensions around the Lens - Loos Salient. Salvaging rubber hose pipes at Hulluch. Sinking Border Redoubt well for Tunnel supply.</p>	Sketch "C"
	Nov. 9		<p><u>WORK COMPLETED:-</u> Quarry Bay Tunnel (Sheet 44a G.12c 40.64). Repaired 6" Newton T.M.E. Cleaned up sumps. Shifted and repaired pump. Investigated sounds near H.Q. Nuns Alley.</p> <p><u>COMPANY ORDERS 541:-</u> Captain Chaplain T.J.REDHEAD reported for duty and taken on strength as from 8-11-17.</p> <p><u>CORRESPONDENCE R.&amp;.I.:-</u> Message from Lt.W.W.Grainger to 3rd Aust Tllg Coy. C.of M./2864/2 Ref. Instructors for Dugout School.</p>	Appendix 4 " 4a



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Summary of Events and Information

Remarks and references to Appendices

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	1917			
	Nov.	10.	<p><u>WORK COMPLETED:-</u> Repairs to Dugout Exit off Canteen Trench (Sheet 44a N.8a 50.40). Put in Skidway off No.16 Incline. Repairs to portion of 10th Avenue with open sets.</p> <p><u>WORK in PROGRESS:-</u> O.B.4 and O.<sup>D</sup>.2 Inclines at VERMELLES Sector, and Dugout in Manning Tunnel. At HILL 70 work on Nelson, Nunn, and Nash Trenches, and cleaning out O.G. dugouts in Horse Trench. Dugout and T.M.E. construction at LENS.</p> <p><u>COMPANY ORDERS 542:-</u> No 5996 Sapper GILBERT A. was Wounded 8-11-17.</p>	
	Nov.	11	<p><u>WORK COMPLETED:-</u> Sinking well at Power Plant (Sheet 18a 70.85) off St.Elise Tunnel, 12' off water in well. Alteration to Manning Tunnel at junction with Mine Lateral at G.11b 70.60. 300' of 40 c.m. Rail track laid. Completed renovation O.G. dugouts Horse Trench.</p> <p><u>WORK in PROGRESS:-</u> Programme as on 10th inst.</p> <p>Company Strength: Officers 23, O.R.'s 626. Attached B.E.F : 7 Officers 197 O.R's.</p>	
	Nov.	12	<p><u>WORK COMPLETED:-</u> Off 10th Avenue Tunnel, Platoon Dugout "L" at (Sheet 44a G.17b 95.32)</p> <p><u>WORK in PROGRESS:-</u> In Front Line areas chiefly on Dugout and T.M.E. construction as above.</p> <p><u>CORRESPONDENCE R &amp; I.:-</u> Recd from 138th Bde O.O's 180 Clause Ref. Tunnel Wardens. C.M./2500/2 from Cent. of Mines First Army Ref. Wombat Boring School (Course.</p>	Sketch "D" Appendix 5 " 5a
	Nov.	13	<p><u>WORK COMPLETED:-</u> Off St.Elise Tunnel (Sheet 44a G.18a 88.95) Btn Cookhouse. Bored 8 Ventilator holes. Off Huxley Trench Dugout and O.P. (Professor) at (H.31a 50.95).</p> <p><u>WORK in PROGRESS:-</u> Cutting Toolhouse off Manning Tunnel and filling Cavities. Timbering Border Well. Dugouts at HILL 70. and salvaging O.G. Sets from old mine galleries.</p> <p><u>COMPANY ORDERS 545:-</u> 4278 Sapper READMAN G. Wounded 12-11-17. 1064 " LANGFORD H. " " (Remained on Duty).</p> <p>9 O.R.'s detailed to attend Special Course at First Army Mine School from 13-11-17.</p>	Sketch "E" " "F"
	Nov.	14	<p><u>WORK COMPLETED:-</u> At 10th Avenue Tunnel Extension to "K" Dugout (Sht 44a G.18a 00.35). At Manning Tunnel Dugout connecting with O.B 2 (G.11c 35.97). Bunks erected. Repaired dugout entrance (crumped) off Norman Trench (N.2c 90.75), also. H.T.M.E. and cellar connections at (N.7b 15.50). Platoon Dugout in Commotion Trench (N.8.c 10.40).</p>	Sketch "G"

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TUNNELLING COY.  
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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
	Nov 14		<p><u>WORK in PROGRESS:-</u> Dugouts and T.M.E's on Hill 70 and Lens. Operations at Tunnels.  <u>COMPANY ORDER 546:-</u> Sapper KEMP W.C. No.1059, Killed in Action 13-11-47.                      Notice re Wearing of Box Respirator.</p>	
	Nov 15		<p><u>WORK COMPLETED:-</u> At 10th Avenue Tunnel, 1 Platoon Dugout "M" (Sheet 44a G.17b 98.432). Bored same for ventilation. Excavated and built cover for new Latrine off 10th Avenue. At Manning Tunnel Boring Dugouts and Cookhouses, and relaying tram line. At LOOS Sector Salvaging O.E. sets and cutting crumped timber out of old T.M.E. LENS Sector, work on Dugout construction and new H.T.M.E. Salvaging timber, and shaping sets. Carrying same to trenches.</p>	Sketch "H"
	Nov 16		<p><u>WORK COMPLETED:-</u> In O.G.2 Trench, Dugout for T.M. personnel (H.31b 25.20) and off Reserve Trench Dugout and T.M.E. (H.31b 60.50). Completed Platoon Dugout at Canteen Trench. (N.8a 95.30). Investigated sounds off No.78 Cellar (M.12c 10.60) at Cite ST.PIERRE. Completed officers Dugout and N.C.O's Dugout, and lagged up, off Manning Tunnel. Toolhouse  <u>WORK in PROGRESS:-</u> Nash, Humbug, and Contract Dugouts, <del>at</del> and at LOOS. (completed.)</p>	Sketch "J" "K" "L"
	Nov 17		<p><u>WORK COMPLETED:-</u> Off Border Redoubt Tunnel, Well near Cockhouse, ladders and pumps installed. (G.11a 95.50) 5' of water available. At the Hairpin, cleaned out inclines Nos 200a and 209. HILL 70, repaired 2 crumped Dugout entrances.  <u>WORK in PROGRESS:-</u> As outlined on the 15/16th insts.  <u>CORRESPONDENCE R.&amp;I.:-</u> G.S.376 from 11th Div. Ref. Wearing of Box Respirators and Gas Blankets on Gas Operation. C.M.2967/2 from C.M. First Army Re H.T.M.E. Designs.</p>	Appendix 6 " 6a
	Nov 18		<p><u>WORK COMPLETED:-</u> Off O.B.4 Trench (G.10d 80.80) No.2 Dugout for 1 Platoon. Dugout for Toolhouse, and Store off Manning Tunnel (G.11a 40.00).  <u>WORK in PROGRESS:-</u> Construction work in LOOS and LENS Sectors.  <u>CORRESPONDENCE R.&amp;I.:-</u> Received G.O.No.182 Ref. Sanitation of M.G.E's.</p>	Sketch "L" appendix 7.

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Place	Date 1917	Hour	Summary of Events and Information	Remarks and references to Appendices
	Nov.	19	<p><u>WORK COMPLETED:-</u> Manning Tunnel Extension off Dugout connecting with O.B.2 (Sheet 44a G.11c 35.97). Boring for ventilation and laying sleepers for Rly.</p> <p><u>WORK in PROGRESS:-</u> Dugouts and O.P's off Nelson, Nash and Nuns Alley at LOOS. Salvage of O.G. Sets.</p> <p>Company Strength A.I.F.: Officers 23, O.R's 622. Attached B.E.F. 7 Officers 197 O.R's.</p> <p><u>COMPANY ORDERS 551:-</u> 5 O.R's struck off strength as from 17-11-17.</p> <p><u>CORRESPONDENCE R.&amp;I.:-</u> G.727/351 from 46th Div. Ref. Pending Destructive "Shoot" on 20-11-17.</p>	Appendix 8
	Nov.	20	<p><u>WORK COMPLETED:-</u> In Norman Trench (Sheet 44a N.2c 90.75) 1 Platoon Dugout.</p> <p><u>WORK in PROGRESS:-</u> Making 204 A Incline to Northern Craters at Manning Tunnel. Lining and Boring Dugouts for Tunnellers personnel. Work commenced on stripping Right Lateral from Hairpin Sector to Hulluch - St. Elie Mine System.</p> <p><u>COMPANY ORDERS 552:-</u> Lieut R.E. TYLER invalided to Australia on 26-10-17. A.I.F. Order 250 Lieut E.J. Gourley " " " " 13-11-17. " " 258. 19 Promotions or Appointments to be N.C.O's.</p>	Sketch "M"
	Nov.	21	<p><u>WORK COMPLETED:-</u> Remaking portion of Wing's Way Trench. Timbered Cuddy off Hulluch Tunnel.</p> <p><u>WORK in PROGRESS:-</u> General Repairs, Dugout construction, and making Fairways in Tunnels.</p>	
	Nov.	22	<p><u>WORK COMPLETED:-</u> Completed No.4 Dugout 9' x 12' off Manning Tunnel. Off Nelson Trench (Sheet 44a H.32c 45.05) O.P. and Dugout accomodation for observers.</p> <p><u>WORK in PROGRESS:-</u> Programme of work in all Sectors in priority.</p> <p><u>COMPANY ORDERS 554:-</u> 4 O.R's reported for duty and were taken on strength from 21-11-17.</p>	Sketch "N" "P"
	Nov.	23	<p><u>WORK COMPLETED:-</u> Dugout off Nunn's Alley (N.2a 30.80). Cleaned and renovated old dugouts of the 170th Tunn. Coy R.E. at the quarries, LOOS, before occupation again.</p> <p><u>WORK in PROGRESS:-</u> Sinking wells, and boring for ventilation at tunnels.</p> <p><u>CORRESPONDENCE R.&amp;I.:-</u> Received instructions Ref. Preparation for Advance.</p>	Sketch "Q"
	Nov.	24	<p><u>WORK COMPLETED:-</u> Extra Dugout for personnel at Power Plant (G.18a 70.89) Hulluch. Bored for ventilation off Border Tunnel for Btn Cockhouse. Carrying bricks, sand, and cement to Cookhouse, St. Elie Tunnel for boilers and stoves.</p> <p><u>CORRESPONDENCE R.&amp;I.:-</u> Instns. to No. 4 Sec. in case of advance on enemy retirement, from Capt. A.J. Hillman.</p>	Sketch "R" Appendix 9

3RD  
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	Nov. 25		<p><u>WORK COMPLETED:-</u> Off Huge Trench (Sheet 44a H.32c 80.80) Temporary Coy H.Q. Dugouts.</p> <p><u>WORK in PROGRESS:-</u> Extensions of accomodation in the permanent tunnels, and in the Loos-Lens Sectors. Building Cookers and ranges in the St. Elie Dugouts.</p> <p><u>CORRESPONDENCE R.&amp;I.:-</u> Despatched A.M.1/274 Re. Ventilating Fans for Tunnels.</p> <p>C.M.2678/2 from C.of M.First Army Ref. Wombat Boring Course Results.</p> <p>Company Strength on the 25th inst.: 23 Officers 625 O.R's. Attached B.E.F.:7 Offrs 236 O.Rs.</p> <p><u>COMPANY ORDERS 557:-</u> Cpl JOHNSTON G.H. struck off strength from 24-11-17.</p> <p>3 N.C.O's were promoted on 25-11-17.</p>	<p>Sketch "S"</p> <p>Appendix 10</p> <p>" 10a</p>
	Nov. 26		<p><u>WORK COMPLETED:-</u> At "The Cutting" (H.32d 20.50) HILL 70 Exits for Dugouts.</p> <p><u>WORK in PROGRESS:-</u> Boring vent. holes off Dugouts below Magpie O.P. Curzon St.Trench. Hoing through connections for Drying Room O.G.2. General work on dugouts.</p>	
	Nov. 27		<p><u>WORK COMPLETED:-</u> Humbug Trench, Dugout system for Coy H.Q. (Sheet 44a H.31d 50.50).</p> <p><u>WORK in PROGRESS:-</u> At the Tunnels Systems, putting in curve and laying rails in Dump Drive. Driving Highland Tunnel, and boring drying room off Stansfield Tunnel. At the Rly Cutting HILL 70, cut through to Hythe Alley, and camouflaged the work. Dugouts in Humbug and Hythe Alleys.</p> <p>Listening Patrois on all fronts.</p>	<p>Sketch "T"</p>
	Nov. 28		<p><u>WORK COMPLETED:-</u> Completed Btn.Drying Room off O.G.2 Trench (H.25d 25/05).</p> <p>Stripping and timbering with special sets, laying "points" and curve at important tunnel junctions. Levels taken out for grading main tunnels, and mine Laterals between Manning, Hairpin, and St.George's. Surveys effected. Vide plans.</p> <p><u>CORRESPONDENCE R.&amp;I.:-</u> Received from I Corps 208 G.O., and addenda to 206 G.O. Ref. Amendments to I Corps 189 G.O. "Instructions in event of an enemy retirement opposite I Corps Front." C.M.110 &amp; C.E. 147/116/41 Ref.Certificate &amp; Recommendation for Bridging of Lieut A.L.Kennedy.</p>	<p>Appendix 11</p> <p>" 11a</p>
	Nov. 29		<p><u>WORK COMPLETED:-</u> Cut sump and arranged ablution chamber, and installed pump for the Btn in Hulluch Tunnel. Bored Power Plant Dugout, and Officers Dugout off West Drive.</p> <p><u>WORK in PROGRESS:-</u> Extensions to accomodation in Tunnels. Placing new steps in exits where repairs are required. Salvaging mine timber at Hill 70 LENS. Advancing dugout systems at Hythe, Hugo, Cobb, Canteen &amp; Colony Trenches. H.T.M.E. off Counter.</p>	

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	1917			
	Nov. 29		<p><u>COMPANY ORDERS 561:-</u> A Sports Committee was formed, consisting of Capt. Chaplain Redhead, Lieut. W.W. Grainger, Sgt. J.E. Goodwin, L/Cpl H.T. Peilew, Spr J.K. O'Hanlon, and Captain A.C. Morris, to audit Regimental Fund Accounts. Notice re distribution of profits from Canteen.</p>	
	Nov. 30		<p><u>WORK COMPLETED:-</u> Repairs to crumped Dugout Exit Hugo Lane, and 6" T.M.E. off Grimwood Tnrl.  <u>WORK in PROGRESS:-</u> As outlined above, and connections at Quarry Dugouts.  <u>COMPANY ORDERS 562:-</u> No. 940 Sapper C.E. BURLEY Killed in Action 29-11-17            4831 " A. FOSTER Wounded on 29-11-17.</p>	
	Nov.		<p><u>RÉSUMÉ OF WORK FOR THE MONTH ENDED:-</u> At the permanent Tunnels of the HULLUCH - ST. ELIE - VERMELLES Sectors operations were restricted to the improvement of existing dugout accommodation. Carrying the Railway to forward portions of the Subways; and in constructing O.P.'s, R.A.P.'s, and improving the water supply of Btns in the Front Line. Listening patrols were maintained.            At HILL 70, defensive works, and Front Line dugouts &amp; O.P.'s were constructed to assist in the consolidation of this important salient. Supervision was maintained of possible enemy mining operations; and where possible, old enemy timbered galleries and emplacements were stripped of the more valuable cut timber. In the Trench Sector facing Lens similar works were developed at strategic points, only on a less concentrated front than the advanced LOOS Salient.</p>	<p><i>Added Appendices 12 to 23.</i></p>



*Summary*

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**Cover for Documents.**

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Natures of Enclosures.

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Notes, or Letters written.

War Diary.  
of  
3<sup>rd</sup> Aust. Tunn. Coy.  
for  
November 1917.

List of Appendices.

<u>No.</u>	<u>Subject.</u>
1	From 46 <sup>th</sup> Div. G 984/6 Ref: Details of T.M.E. at G.18a 90.98.
<i>Exhausted</i> 1a	Copy of Certificate from R.E. Bridging School. Ref: Lt. W.W. Granger & Capt. Fuller
2	From (G.S. 5/1) 11 <sup>th</sup> Div. Ref: Hostile Mining.
3	List of Mine Rescue Apparatus at Hd. Qrs. & in Trenches.
3a	R.E. 7533/1/1 from Engineer-in-Chief G.H.G. Ref: Certificate from Bridging School.
4	Message from Lt. W.W. Granger to 3 <sup>rd</sup> Aust. Tunn. Coy.
4a	C. of Mines/2864/2. Ref: Instructors for Dugout School.
5	From 138 <sup>th</sup> Bde. Operation Order 180 Clause. Ref: Tunnel Wardens.
5a	C.M./2500/2 from Controller 1 <sup>st</sup> Army. Ref: Wombat Boring School Course.
6	G.S. 376 from 11 <sup>th</sup> Div. Ref: Wearing of S.B.R. & Gas Blankets on Gas Operation
6a	C.M. 2967/2 from C.M. 1 <sup>st</sup> Army. Ref: H.T.M.E. Designs.
7	From 1 <sup>st</sup> Corps. G.O. No 182. Ref: Sanitation of M.G.E.
8	From 46 <sup>th</sup> Div. G 727/351. Ref: Pending Destructive Shoot on 20/11/17.
9	Instructions to No 4 Section in case of advance, on enemy retirement.
10	Despatched A.M. 1/274. Ref: Ventilating Fans for Tunnels.
10a	C.M. 2678/2 1 <sup>st</sup> Army. Ref: Wombat Boring Course Results.
11	From 1 <sup>st</sup> Corps. 208 G.O. & addenda to 206. G.O. Ref. G.O. 189.
11a	G.M. 110 & C.E. 147/116/41. Ref: Certificate for Bridging of Lt. A.L. Kennedy. <i>(Detached)</i>

*Appendices Continued.*

Sketches.

"A"	Alterations to Bullfinch O.P.	(44 <sup>A</sup> . N2a. 15.85.)
"B"	Dugout Congress Trench	( " N76. 90.80)
"C"	"J" Dugout 10 <sup>th</sup> Avenue Tunnel	( " G176. 95.28)
"D"	"L" Dugout 10 <sup>th</sup> Avenue Tunnel.	( " G176. 95.32)
"E"	Cookhouse St. Elie Tunnel	( " G18a. 88.95)
"F"	Dugout & O.P. "Professor" of Huxley Trench	( " H31d. 50.95)
"G"	Dugout. Commotion Trench	( " N8c. 10.40)
"H"	"M" Dugout 10 <sup>th</sup> Avenue Tunnel	( " G176. 98.32)
"J"	H.T.M.E. Reserve Line.	( " H31b. 60.50)
"K"	Dugout. Canteen Alley.	( " N8a. 95.30)
"L"	Toolhouse off Manning Tunnel	( " G11a. 40.00)
"M"	Dugout. Mormon Trench	( " N2c. 90.75)
"N"	No 4 Dugout. Manning Tunnel	( " G11c. 30.90)
"P"	Nelson O.P. & Dugout.	( " H32c. 45.05)
"Q"	Nun's Alley O.P. & Dugout	( " N2a. 30.80)
"R"	Dugout off St. Elie Tunnel.	( " G18a. 70.89)
"S"	C.H.Q. Dugout. Hugo Trench	( " H32c. 80.80)
"T"	Dugout. Humbug Alley.	( " H31b. 50.50)

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of  
3rd Aust. Trench Coy.  
for  
November 1917.

## APPENDIX

Appendices Continued.

- N<sup>o</sup> 12. From <sup>of</sup>c. Records. G.H.Q. Anzac Section. Ref:- 975 Spr. Chaplain C.  
 13 C.M. 2425/2 from Cof M. Ref:- Officer on roads to replace Capt. Hillman.  
 14 C.E. 1668/30. from C.E. 1<sup>st</sup> Corps. Ref:- Capt. Hillman on Roads.  
 15. Correspondence re 4452 Spr. Pritchard C.  
 16 From A.I.F. London Ref:- Postings of Cof E. Chaplains.  
 17 C.M./2653/2 from Controller of Mines Ref:- Drawing of Standard  
 17a Drawing on tracing cloth of Standard Bugout. Bugout.  
 18 Correspondence re chalk spoil & its exposure.  
 19 C.M./2717/2 from Cof M. 1<sup>st</sup> Army Ref:- Construction at Mine  
 School of Trench Mortar Emplacement.  
 20 70/33 from Hd. Qrs. A.I.F. Ref: Adjutant.  
 21. A.M. 1/293. Ref: Officers for Supernumerary List to be  
 struck off strength.

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S E C R E T.  
- - - - -

G. 984/6.  
-----

3rd Australian Tunnelling Co.

\*\*\*\*\*

With reference to conversation this evening.

The following are the details of the T.M.  
emplacement required at G 18 a 90.98.

- (a) Zero Line to be 67° magnetic.  
Switch 25° Right and 25° Left.
- (b) The emplacement should be 6' x 6' x 6'.
- (c) Ammunition store is required  
6' x 10' x 6'.
- (d) Sleeping accommodation for 6 O.R. is also  
required.

*J. Dowling*

Lieut-Colonel,

General Staff, 46th Division...

2nd November, 1917.

Copy to C.R.A.

*W.B.*

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Appendix 2. 4

SECRET.

11th. Division No. G.S/5/1

32nd. Inf. Bde.  
33rd. " "  
34th. " "  
6th. E. Yorks Regt.  
C.R.E.

Any reports of hostile mining should be communicated direct by Battalions to the representatives of the 3rd. Australian Tunnelling Company in their subsection.

If there is any difficulty in getting into touch with him, the Brigades can telephone direct to O.C., 3rd. Australian Tunnelling Company, who will investigate the report.

Code name for 3rd. Australian Tunnelling Company is being issued separately.

*R Crookenden*

Lieut. Colonel,

3rd. November 1917.

General Staff, 11th. Division.

Copy to: 3rd. Aust. Tunn. Coy. ✓

*VMB*

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Appendix 3.

/5

## 3rd AUSTRALIAN TUNNELLING COMPANY

LIST OF PROTO APPLIANCES RETURNED TO MINE RESCUE SCHOOL ON 11/11/16

## APPARATUS

10 Proto Sets  
 5 Salvus Sets  
 9 Nevits Reviving apparatus

## S P A R E S

1  
 17 twin Cylinders  
 20/19 5 ft Cylinders  
 12 tins caustic soda  
 8 Salvus cartridges  
 8 spanners

## OTHER STORES

5 Skid stretchers  
 20 Sponge Rubber goggles, pairs

## AT MINE RESCUE SCHOOL

1 Proto Set  
 2 Salvus Sets

## 3rd AUSTRALIAN TUNNELLING COMPANY

LIST OF MINE RESCUE APPARATUS HANDED OVER TO 257 COMPANY R.E  
IN TRENCHES on 6/11/1916

## APPARATUS

7 Proto Sets  
 3 Salvus Sets  
 Nevita Reviving  
 6 apparatus

## S P A R E S

9 twin Cylinders  
 8 tins Caustic Soda  
 6 Salvus Cartridges  
 5 Cylinders 5 ft  
 6 Cylinders Salvus

## OTHER RESCUE STORES

2 Life lines each 100 ft  
 6 Skid Stretchers  
 5 Blankets  
 9 Sponge Rubber goggles, pairs  
 2 Vermoral Sprayers  
 1 Jar of spraying mixture

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APPENDIX *3a* / *6*

PWM.

**E-IN-C., G.H.Q.,**  
- 5 DEC 1917  
R.E/7533/1/1.  
No.....

O. C.,  
3rd Australian Tunnelling Company.

*Appendix 3a*

The undermentioned N.C.O. who attended the last Course of Instruction at the R.E. Bridging School was classified "Fair" in error. A revised certificate is enclosed which please hand to the N.C.O. concerned.

No. 1045 Corpl. H. J. Jones.

*John Doyle Calt*  
*for*

G. H. Q.  
5 .12.17.

Major General.  
Engineer in Chief.

*New Certificate - "Very good"*

356  
Chief Engineer.  
First Army.

Reference my T/16/36 dated 16/11/17, stating that No. 1045, Cpl. JONES, 3rd Australian Tunnelling Company, was rated as "Fair" in the 1st Class at the Bridging School.

I find that, through a clerical error, this N.C.O.'s name was omitted from those classified "Very Good" and inserted in those classified "Fair". I, therefore, attach a revised certificate and request that it may be forwarded to the unit concerned.

1/12/17.

Sd/ A.V.T. Robinson, Major R.E.  
Commd't. R.E. Bridging School.

R.E. BRIDGING SCHOOL.  
1917-18.

No. 1 Class 17-10-17 to 29-10-17.

Name:- Corpl. JONES, H.J. (1045). UNIT:- 3rd. Aust. Tunn. Coy.

PRACTICAL WORK:- 85%.

ORGANISATION & RECONNAISSANCE :- -----

GENERAL QUALIFICATIONS FOR BRIDGING :- Very Good.

17/11/17.

Sd/ A.V.T. Robinson, Major R.E.  
Commandant, R.E. Bridging School.

E-in-C.  
thro' C. of M. First Army.

Forwarded.

3-12-17.

Sd/ L.W. Becher, Capt. R.E.  
for C.E. First Army.

C.M./2584/2.  
First Army.

O.C. 3rd. Aust. Tun. Coy.

To see and return, further to my C.M./2583/2, dated

17-11-17.

Sd/ R. STOKES  
Lieut-Colonel R.E.  
Controller of Mines,  
First Army.

First Army, H.Q.  
3rd. Dec., 1917.

Controller of Mines.

1st. Army.

Noted and returned please.

4/12/17.

Sd/ ALEX SANDERSON.  
O.C., 3rd. Aust. Tun. Coy.



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APPENDIX 4 8



Appendix 4.

Army Form C. 2125.  
(In books of 100.)

"C" Form.

MESSAGES AND SIGNALS.

No. of Message

Prefix	Code	Words	Received	Sent, or sent out	Office Stamp
			From	At	
Charges to Collect			By	To	
Service Instructions				By	
Handed in at			Office	m.	Received

TO 3. Aust Tunnels Co Bracque

* Sender's Number	Day of Month.	In reply to Number	AAA
101	9		

Send soon as possible			
to	BR	Merzelle	one
WOMBAT	pump	with	suction
and	Delivery	hose	complete
and	flow	(4)	reds
also	short	CALYX	bit
10 weekly	report	spanner	aaa
		posted	

FROM Granger Base 2/7 Liverpool  
PLACE & TIME Regt.

\* This line should be erased if not required.

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APPENDIX 4<sup>a.9</sup>

*Appendix 4a.*

C.M./2864/2.  
First Army.

O.C., 3rd Aust. Tun. Coy.

Further to my C.M./2810/2 of 4/12/17.

All N.C.Os. and Men recommended as Instructors for the new Dugout Course for Gunners are required to report at the Mine School on Dec.13th, taking with them 24 hours rations.

~~As there will be 2 or 3 proceeding from all Companies on this date, local arrangements may be possible to economise transport.~~

Lieut. Kennedy will be required to report at the School on 27/12/17, but it will be desirable for him to keep in close touch with the School in the meantime.

First Army, H.Q.,  
9th Dec., 1917.

*R. E. R.*

Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

Copy to:- O.i/c. Mine School.  
For information.

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138th. INFANTRY BRIGADE ORDER NO. 180.  
-----

Headquarters,  
12th. Novr. '17.  
-----

1. The 138th. Infantry Brigade will take over the defence of the HILL 70 Section, in relief of the 139th. Infantry Brigade, who will take over the defence of the ST ELIE Section.
2. Movements will take place in accordance with the attached programme, and will be completed by 10 a.m. 17th. inst. with the exception of the relief of the 138th. M.G. COY. which will commence on 17th. instant.
3. Completion of moves will be reported daily to Brigade Headquarters.
4. Preliminary reconnaissances, November 13th.  
-----  
Officers of the 4th. LINCOLNSHIRE REGT. and 5th. LEICESTERSHIRE REGT. will carry out preliminary reconnaissances as follows :-  
Commanding Officer, Company Commanders, Battalion Intelligence and Signalling Officers and a proportion of Platoon Commanders will report at 138th. Infantry Brigade Headquarters, PREWITT CASTLE, G. 28 b.l.4., where guides will be provided for :-  
    (a) 4th LINGS. REGT. at 10 a.m., 13th. November.  
    (b) 5th. LEICS. REGT. at 9.30 a.m. 13th. November.  
  
    4th. LINGS. REGT. will reconnoitre RIGHT Subsection, (6th. SHERWOOD FORESTERS).  
    5th. LEICS. REGT. will reconnoitre LEFT Subsection, (8th. SHERWOOD FORESTERS).  
    5th. LEICS. REGT. will also reconnoitre Close Support Battalion (5th. SHERWOOD FORESTERS) Lines.
5. On 14th. November - (a) Officers of 5th. LINCOLNSHIRE REGT. will reconnoitre "Close Support Battalion's" (5th. SHERWOOD FORESTERS) Lines.  
  
    Guides will be at 139th. Infantry Brigade Headquarters at 10.0 A.M.  
  
    (b) O.C. 138th. MACHINE GUN COMPANY and O.J. 139th. T.M. BATTERY will report at 139th. Infantry Brigade Headquarters at 10.15 A.M., where guides will take them to Headquarters, 139th. M.G. COY. and Headquarters 139th. T.M. BATT.
6. Advanced Parties.  
-----  
The following Advanced Parties will proceed to HILL 70 Section on the night 14th/15th November.  
  
    Brigade Headquarters.      Brigade Runners and Signallers to be arranged by O.C. 138th. Brigade Signal Section.  
    -----  
                                    Brigade Observers.  
  
    4th. LINGS. REGT.      )      1 Officer per Company.  
    5th. LEICS. REGT.      )      1 N.C.O. per Platoon.  
                                    Battalion and Company Gas M.C.Co.  
                                    Battalion Snipers.  
                                    2 Runners per Battalion.  
                                    1 Runner per Company.  
                                    1 Man per Lewis Gun Section.

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- 2 -

6. (Contd) Similar Advanced parties from the 139th. Infantry Brigade will be attached to 138th. Infantry Brigade front Line Battalions on the night 14th/15th November.
7. The 138th. Brigade Pioneer Company will relieve the 139th. Brigade Pioneer Company on the 16th/17th Novr. Arrangements to be made between O.C. 468th. Field Company R.E. and O.C. 139th. Brigade Pioneer Company.
8. 138th. Infantry Brigade Trench Wardens will move with the 468th. Field Company R.E. on the 17th/18th Novr.
9. All other arrangements for relief will be made between Officers Commanding concerned.  
No movement East of PHILOSOPHE to take place before 4.15 p.m.
10. Tunnel Wardens and personnel attached to the 3rd. Australian Tunnelling Company will remain as at present.
11. Relief complete of the two front line Battalions on 15th/16th November will be wired to Headquarters. 139th. Infantry Brigade at PREVITE CASTLE.
12. Q.M. Stores and Transport Lines will not move.
13. Date and hour at which Command of the HILL 70 Section will pass to the G.O.C. 138th. Infantry Brigade will be notified later.

✓ ACKNOWLEDGE.

*Imboda*

Captain,

Brigade Major, 138th. Infantry Brigade..

Issued by Orderly at 8-0 P.M. to :-

- |             |                      |            |                          |
|-------------|----------------------|------------|--------------------------|
| Copy No. 1. | Bde Maj. for B.F.C.  | 13.        | 46th. Division.          |
| 2.          | Staff Captain.       | 14.        | 1/1st. N.M. Fd. Amb.     |
| 3.          | 4th. Lines.          | 15.        | 139th. Inf. Bde.         |
| 4.          | 5th. Lines.          | 16.        | Supply Offr. 138th. I.E. |
| 5.          | 4th. Leics.          | 17.        | Bde Schools.             |
| 6.          | 5th. Leics.          | 18.        | Bde Signals.             |
| 7.          | 138th. M.G. Coy.     | 19.        | 452 Coy. A.S.C.          |
| 8.          | 138th. T.M. Bty.     | 20.        | 138th. Bde. Pioneer Coy. |
| 9.          | St Elie Group R.F.A. | 21.        | LOCS Group R.F.A.        |
| 10.         | 137th. Inf. Bde.     | 22.        | 3rd. Aus. Tunnelling Coy |
| 11.         | 74th. Inf. Bde.      | 23 and 24. | War Diary.               |
| 12.         | 468th. Fd. Coy. R.E. |            |                          |

MOVEMENT TABLE  
\*\*\*\*\*

to accompany 138th. Infantry Brigade Order No.180.

U N I T .	M O V E M E N T					
	12th/13th.	13th/14th.	14th/15th	15th/16th	16th/17th	17th/18th.
138th. Infantry Brigade						
BRIGADE HDQRS.	PHILOSOPHE	No change	No Change	PREVITE	No Change	No Change.
5th. LINCOLNSHIRE REGT.	LINE (Right)	"	"	NOYELLES	CLOSE SUPPORT (HILL 70)	"
4th. LEICESTERSHIRE REGT.	LINE (Left)	"	"	MAZINGARBE (RESERVE)	No Change	"
5th. LEICESTERSHIRE REGT.	PHILOSOPHE (SUPPORT)	"	MAZINGARBE (RESERVE)	LINE, HILL 70 (LEFT)	"	"
4th. LINCOLNSHIRE REGT.	FOCQUIERIS (RESERVE)	NOYELLES	CLOSE SUPPORT (HILL 70)	LINE, HILL 70 (RIGHT)	"	"
138th. M.G. COMPANY	LINE.	No Change	No Change	No Change	No Change	HILL 70.
138th. T.M. BTY.	LINE	"	"	"	HILL 70	No Change
138th. Inf. Bde. Pioneer Company.	No Change	"	"	"	HILL 70	No Change

12th. November 1917.

Appendix 5.

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S E C R E T .  
 \* \* \* \* \*

Reference 138th. Infantry Brigade Order No. 180.

1. All Aeroplane Photos, Secret Trench Maps, Defence Schemes, Trench Stores, and Gun Boats will be taken over in the HILL 70 SECTION and handed over in the ST ELIE SECTION. Copies of receipts on handing over will be sent to Brigade H.Qrs. by 9 p.m. 18th November.
2. Reference para 2,. Erase last two lines and substitute :-  
 Machine Gun reliefs will not be carried before 10 a.m. 16th instant. All arrangements will be made between Machine Gun Company Commanders and the D.M.G.O.
3. Command of the HILL 70 SECTION will pass to the G.C.C. 138th. Infantry Brigade at 10 a.m. on 16th November.
4. Brigade Headquarters will close at PHILOSOPHE at 10 a.m. 16th November, and open at PREVITE CASTLE at the same hour.

ACKNOWLEDGE. ✓

*Ern Woods*

Captain,

13/11/17. Brigade Major, 138th. Infantry Brigade.  
 \*\*\*\*\*

Issued by Orderly at 6 p.m. to :-

All recipients of 138th. Infantry Brigade Order No. 180.

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C.M. / 2500 / 2.  
First Army.

O.C., 3rd Aust. Tun. Coy. ✓

O.C., 170th Tun. Coy. R.E.

O.C., 251st Tun. Coy. R.E.  
-----

Attached is brief synopsis of Wombat boring course arranged at Mine School.

Parties are to be sent as under:-

<u>Course No.</u>	<u>Company.</u>
1.	3rd Aust. Tun. Coy.
2.	170th Tun. Coy., R.E.
3.	251st Tun. Coy., R.E.
4.	<u>3rd Aust. Tun. Coy.</u>

Nominal rolls are to be sent direct to O.C. Mine School the day before reporting. Men must have change of clothing and be sent to baths before going on this course. Each man must take 24 hours rations.

Capt West  
Please note.  
A.S.  
12/11/17.

Headquarters,  
FIRST ARMY,  
11th Nov., 1917.

*R. Stokes*  
Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

*Capt West*  
Please ask <sup>Nos 1, 2, 3 & 4</sup> Section Commanders to nominate two other ranks each for Course No 1 and two other ranks each for Course No 4 referred to above. In addition No 4 Section will supply one N.C.O for Course No 1 and No 1 Section will supply one N.C.O for Course No 4.

These ~~the~~ N.C.O's and other ranks should be picked from men who have not yet had an opportunity to get experience in "Wombat" boring.

12/11/17.

*Alex. Sanderson*  
Major  
O.C. 3rd Aust. Tun. Coy.

FIRST ARMY SCHOOL OF MINES.WOMBAT BORING COURSE.Synopsis of Course.

This course consists of practical instruction to Officers and Other Ranks in the boring of incline and vertical holes.

Lectures are given dealing with details of the machine, and the design of chambers. The practical work is so arranged that each in turn has practice in carrying on the different duties of members of the squad.

Courses.

Each course will last for eight days. One N.C.O. and 8 men will be detailed for instruction, and must report not later than noon on the day preceding the commencement of each course.

Time Table.

The time table for the first four courses is as follows:-

<u>Course.</u> <u>No.</u>	<u>Date for men reporting</u> <u>at School.</u>	<u>Commencement of</u> <u>Course.</u>
1.	13/11/17	14/11/17
2.	22/11/17	23/11/17
3.	1/12/17	2/12/17
4.	10/12/17	11/12/17.

9th November, 1917.

Sd/ H.S. Ball,  
Captain R.E.,  
O.C. First Army Mine School.



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 =====  
 S E C R E T.  
 =====

Copy No. 25.....

11th. Division Order No. 154.

Ref: Map 1/10,000 Sheet 56.C. S.W. 1.

17th. November, 1917.

1. A raid will be carried out by the 55rd. Inf. Bde. on the enemy's trenches East of CARP TRENCH on the 21st. inst.
2. The object of the raid is:-
  - (a) To kill or capture as many Germans as possible.
  - (b) To obtain <sup>an</sup> identification.
  - (c) To destroy all dug-outs.
  - (d) To bring back or destroy M.G's. and T.M's.
3. The area to be raided is:-  
 N.8.d.72.68. - N.9.a.05.05. - N.8.b.76.36.
4. The raiders will begin to withdraw not later than Zero plus 45 minutes.
5. The operation will be assisted by M.G's., T.M's., Field and Heavy Artillery, and the Royal Flying Corps. Appendices showing the action to be taken will be issued separately to those concerned.
6. Gas will be projected into LENS at Zero, and a smoke Thermit barrage will be placed on CINNABAR from N.14.a.67.25. to N.14.b.10.67. Orders for these operations will be issued in an Appendix.
7. The 46th. Division is co-operating by an Artillery shoot on our left, beginning with a bombardment at Zero minus 45 minutes and ending with a barrage from Zero minus 5 minutes to Zero plus 15 minutes.
8. The Divisional Intelligence Officer will conduct a preliminary examination of prisoners at Right Brigade H.Q. (M.11.a.6.1.)  
 As soon as prisoners have been examined, they will be sent to FOSSE 11 (M.8.d.55.90.) where they will be taken over by the A.P.M..
9. Watches will be synchronized at Div. H.Q. at 9 p.m. and at Right Brigade H.Q. at 10 p.m. on the 20th. inst.
10. A further order will be issued as to Zero hour.
11. 11th. Divn. Order No. 153 is cancelled.
12. Acknowledge.

Issued at 8-30 pm.

*R. Rankin*  
 \_\_\_\_\_  
 Liout. Colonel,  
 General Staff, 11th. Division

Distribution normal, minus copies 7., 11., 12.  
 plus copies 21., 5th. Can. Div. Arty.  
 22., "B" Special Coy: R.E.  
 23., No. 4. Special Coy: R.E.  
 25., 3 Aust Tm Coy ✓

Appendix 6

Appendix 1. to 11th. Division Order No. 134.

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Unit.	No. of guns.	Time.	Target.	Rate of Fire.	Remarks.
33rd. M.G. Coy.	One.	Zero to Zero plus 60 minutes.	Enfilade NARROW ALLEY from N.8.b.90.70. to N.9.a.40.58.		Position for this gun to be chosen by O.C. 33rd. M.G. Coy. Direct fire.
33rd. M.G. Coy.	Two.	" " "	One gun on the North side and one gun on the South side of the Area to be raided to fire on enemy M.G.'s or Infantry soon firing.		Positions to be chosen by O.C. 33rd. M.G. Coy. Direct fire.
33rd. M.G. Coy.	Four.	" " "	NUNS ALLEY from N.9.c.60.40. to N.9.c.75.05.	6000 rounds per hour.	Depression stops will be used with all guns firing indirect. Indirect Fire.
34th. M.G. Coy.	Four.	" " "	NARROW TRENCH from N.9.a.70.55. to N.9.b.46.62.		Indirect Fire.

APPENDIX 6

6/17

Unit.	No. of guns.	Time.	Targets.	Rate of Fire.	Remarks.
54th M.G. Coy.	Four.	Zero to Zero plus 60 minutes.	NABOB ALLEY from from N.9.c.91.86. to N.9.d.51.81.		Indirect Fire.
54th M.G. Coy.	Four.	"	Railway line from N.9.b.05.43. to N.9.c.95.48.		Indirect Fire.

*A. Praxenden.*

Lieut. Colonel,  
General Staff, 11th. Division.

Distribution normal,  
Minus copies Nos. 5. 7. 8. 9. 10. 11. 12. 22. 23.  
Plus copy No. 21.

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Appendix 6. 19

APPENDIX 2  
to  
11th Division Order No. 154.  
=====

Copy No.....

1. If the wind is suitable "B" Special Co. R.E. will discharge gas projectors into the area round N.15.c.1.8. at Zero hour on Zero day. The emplacements are at N.7.d.05.40.

2. From Zero to Zero plus 15 minutes "P" Section No. 4 Special Co. R.E. will fire thermit, with gas and smoke if the wind is favourable, on the area N.14.a.67.25 to N.14.b.10.67, thermit being placed on the flanks. The emplacements will be at N.14.a.1.8. and N.8.c.52.75.

Wind limits for gas are from N.W. through West to S.W.

"P" Section No. 4 Special Co. R.E. will not fire smoke shells if the smoke is likely to be carried by the wind across the area to be raided.

3. Within the area N.20.a.75.00 - N.15.a.05.85 - N.7.b.80.00 - N.8.c.75.25, gas blankets will be lowered and all troops will wear box respirators from Zero minus 5 minutes. At Zero plus 10 minutes box respirators may be removed.

*Cancelled  
See  
Amendment  
Substituted*

4. O.C. "B" Special Co. R.E. will be at Right Brigade H.Q. during the operation.

5. O.C. "P" Section No. 4 Special Co. R.E. will establish a Report Centre at Right Battalion H.Q.

*J. P. ...*  
Lieut-Colonel,  
General Staff. 11th Division.

Distribution normal, minus copies 11., 12.  
plus copies 21 5th. Can. Div. Arty.  
22 "B" Special Coy: R.E.  
25 No. 4. Special Coy: R.E.

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**SECRET.**



Appendix 6.

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Copy No.....

AMEND APPENDIX B,

11th. Division Order No. 134

as follows :-

Cancel Para. B and substitute :-

B. Within the area N.13.d.95.60 - N.13.a.05.85 -  
 N.7.b.80.00 - N.8.c.85.40 gas blankets will be  
 lowered and all troops will wear box respirators  
 and remain under cover from Zero minus 5 minutes .  
 At Zero plus 10 minutes Box respirators may be  
 removed.

Please acknowledge receipt.

17th. November 1917.

*A Crookenden*

Lieut. Colonel,

General Staff, 11th. Division.

Copies to : C.R.A.  
 C.R.H.  
 38rd. Inf. Bde.  
 1st. Canadian Division.  
 "g" Special Coy. R.E.  
 No. 4 " " "  
 8th. Can. Divn. Arty.  
 3rd. Australian Eng. Coy.

✓



Appendix 6a

cm 2967/2

O.C.

3<sup>rd</sup> Australian T.M. Co

I believe you  
have modified your  
design considerably  
since this.

Have you a  
drawing of your  
approved type.

R. Stokes  
Major  
Controller of this

18/12/17

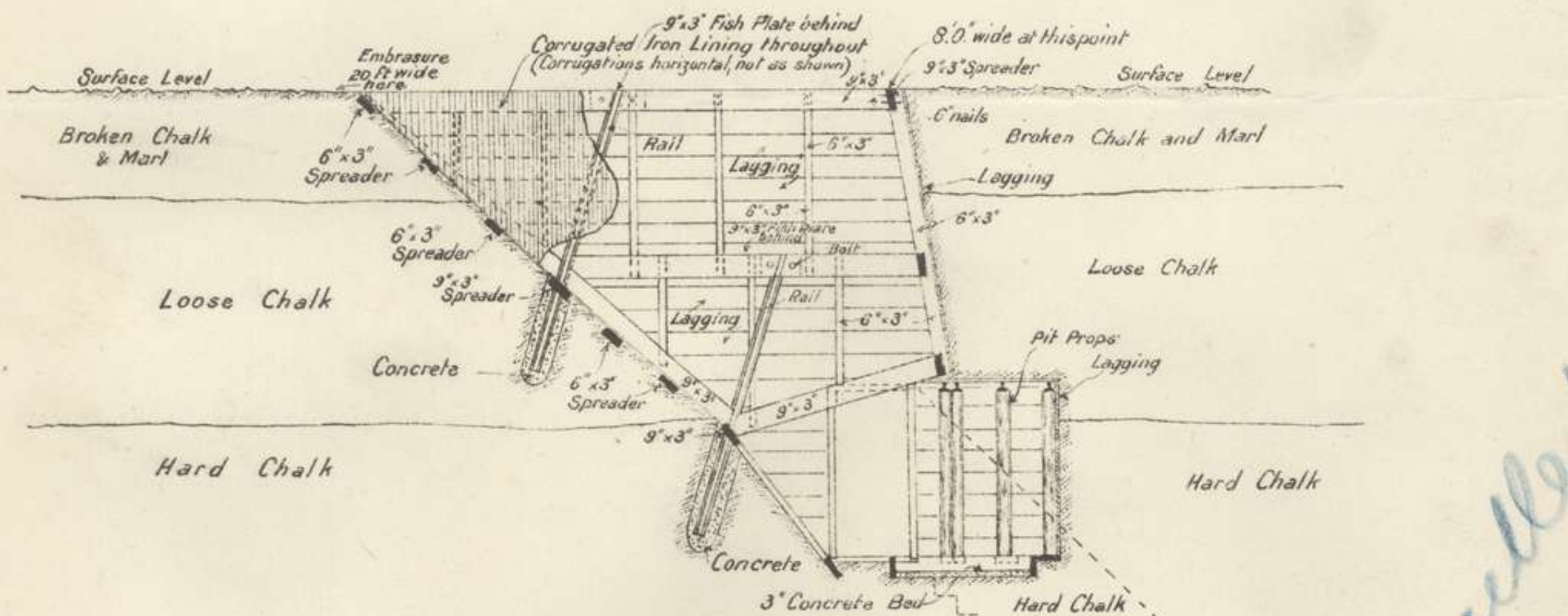
NB.

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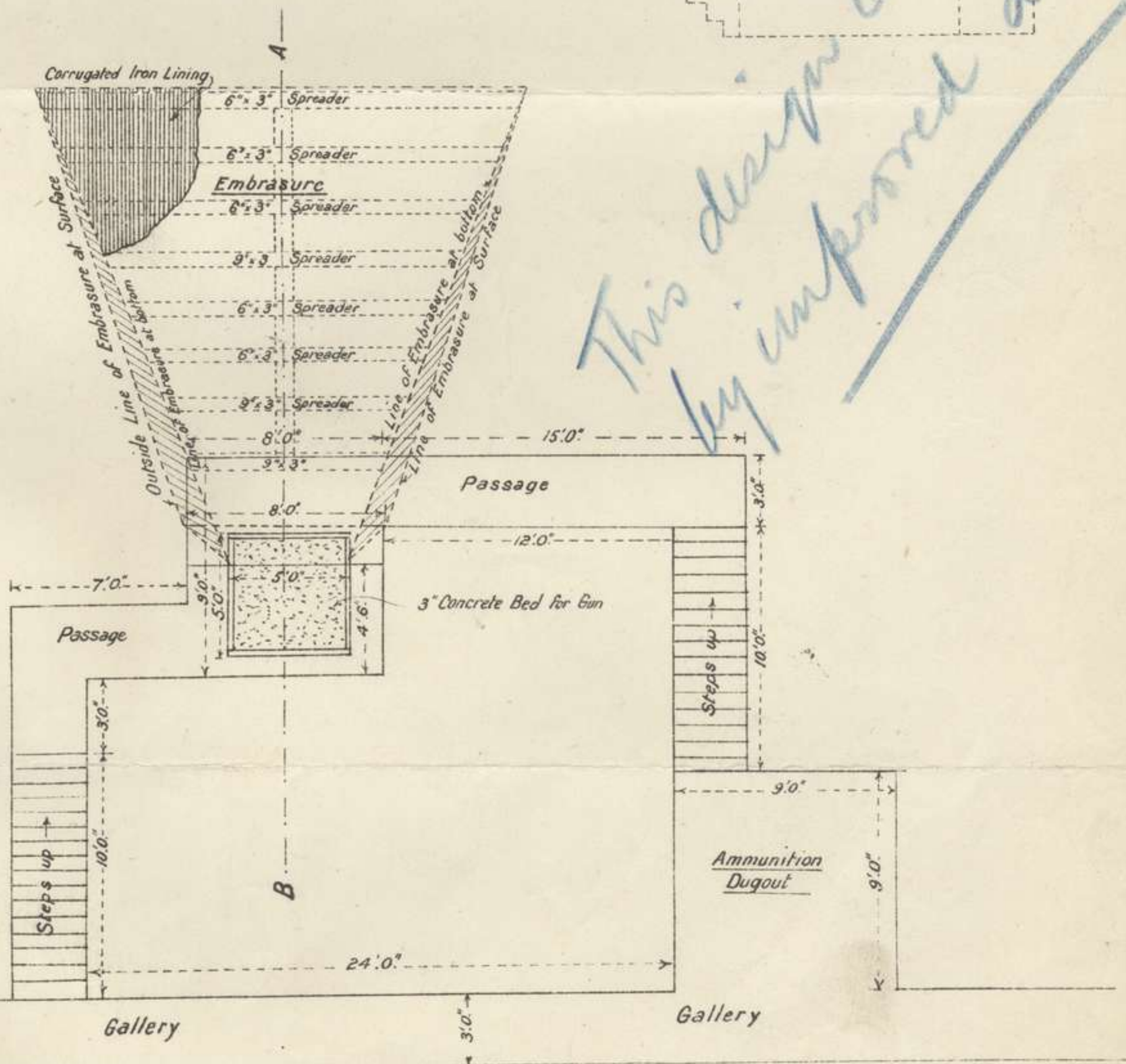
E. in C.  $\frac{F.F.}{95}$

# HEAVY TRENCH MORTAR EMPLACEMENT

(3<sup>RD</sup> AUSTRALIAN TUNNELLING COY. 3. 8. 17.)



SECTION A.B.



*This design cancelled  
by improved design*

— PLAN —

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11th Division.  
46th Division.  
H.A., I Corps.  
170th Tunnelling Coy: R.E.  
3rd Australian Tunn: Coy:.  
C.R.E., I Corps Troops.

-----  
No. 182 (G.O). 18th November, 1917.  
-----

1. It has come to notice that certain covered Machine Gun emplacements and dug-outs in the Intermediate System of Defence have been utilised for the accommodation of Infantry and R.E. working parties or of R.A. detachments.

2. While in certain cases such positions in present occupation are being kept clean and in good order, in other cases the dug-outs, emplacements and surrounding ground are in an extremely dirty and insanitary condition, latrines being either non-existent or crude and dirty, and excreta being found lying in the trenches.

Positions recently occupied but now vacant give evidence of filth and rubbish having been wilfully dumped in these places before being vacated.

3. There is no objection to accommodation being found in these covered M.G. emplacements and dug-outs provided that -  
(i) They are maintained in good condition and in a proper state of cleanliness.  
(ii) The positions are not disclosed by smoke or by undue movement in the vicinity.  
(iii) Such accommodation is applied for and allotted in a regular manner under Divisional arrangements, or by arrangement by Corps Troops with the Division whose area is concerned.

4. The conditions described in para: 2 above can only arise from neglect of duty on the part of the Officers responsible for the parties in occupation, either in neglecting to visit the places where their men are accommodated or in failing to see that the most elementary rules of cleanliness are observed.

5. Orders will be issued to ensure that all places in occupation by troops are regularly visited by responsible Officers and that cleanliness is strictly observed.

*G. V. Hordern.*

Brig: General,  
General Staff, I Corps.

Copies to:-  
"A"  
R.A.  
C.E.





Appendix 8.

G.727/351.  
-----S E C R E T.  
=====C.R.E.  
1st Mornmouths.  
178th M.C. Co:  
A.D.M.S.  
11th Division.25th Division.  
No. 4 Special Co: R.E.  
'K' Special Co: R.E.  
3rd Australian T. Co: ✓-----  
Reference :- LOOS SHEET 1/10,000.

1. A destructive shoot will be carried out on the trenches in the area H.25.b.59.51 - H.25.b.73.04 - H.26.a.13.03 - H.25.b.87.57, and on new communication trench and other adjacent trenches on 20th November, 1917.
2. Zero hour will be at 2 p.m., and bombardment will last for one hour.

*G.R. Sandeman* *Cap*

f.

Lieut-Colonel,  
General Staff, 46th Division.

19th November, 1917.

✓

Appendix 9.

3<sup>rd</sup> Aust. Inf. Coy  
24/11/17

(1).

In readiness for an advance or enemy retirement, No.4 Section becomes an Investigation Section and ultimately a mobile section. The Section will be divided into 7 parties as tabulated below, i.e. five parties of 1 officer & 18 men approximately each per Brigade front, and 2 reserve parties of 1 officer and 20 men each per Divisional front.

(2).

FRONTAGE.	OFFICER.	N.CO.	MEN.
R. Brigade R. Division.	Lt. Shaw.	2/Cpl. Calanchini	$\frac{1}{2}$ B. Relief. 40 Attached infantry less 10 to reserve.
L. Brigade R. Division.	Lt. Allen.	Sgt. Forsyth L/Cpl. Taylor.	$\frac{1}{2}$ B. Relief. 40 Attached infantry less 10 to reserve.
R. Brigade L. Division.	Lt. Wallman.	Sgt. Freeman Cpl. Mackenzie.	$\frac{1}{2}$ A. Relief 40 Attached infantry less 7 to reserve.
Centre Brigade L. Division.	Lt. McArdell.	Cpl. Gebbie L/Cpl. Coulson.	$\frac{1}{2}$ A. Relief 40 Attached Infantry less 7 to reserve.
L. Brigade L. Division.	Lt. Taylor.	Sgt. Williams L/Cpl. Fuller.	6 Men from C. Relief. 6 Men from D. Relief. 40 Attached Infantry less 7 to reserve.
R. Division Reserve.	Lt. Russel.	Cpl. Gardiner.	C. Relief less 6 men. 20 Attached Infantry.
L. Division Reserve.	Lt. Campbell.	2/Cpl. Burke.	D. Relief less 6 men. 21 Attached Infantry.

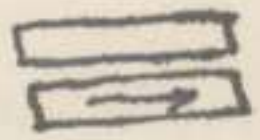
(3).

Officers detailed above will immediately make themselves acquainted with 1st Corps 189 (G.O.) of 22/11/17 and with the Brigade Staffs of the Brigades to which they have been allotted in accordance with para. 9 (b) of 1st Corps 189 referred to above. And in accordance with that para, will fix assembly posts for their parties and attached infantry.

(4).

O.C's parties will prepare depots at H.Q. of all stores required on the following lines:-

Reserve Parties to carry same stores as forward parties:-

- 356
- 6. Pioneer Picks.
  - 10. Wire Cutters.
  - 2. Tomahawks.
  - 3. Spanners (shifting)
  - 2. Ropes in 20' lengths  $1\frac{1}{2}$ "
  - 2. Salvus Sets.
  - 10. Torches.
  - 5. Warning Boards  Danger.
  - 10. " " " Safe.

Demolition Material:-

- 1 Tin Fuse.
- 1 Box Detonators.
- 2 Tins Primers
- 1 C/s Guncotton.
- 2. Oldham Lamps.
- 20lbs. Candles.
- 1 Box Green Chalk.
- 1 " Red Chalk.
- 1 Tin Red Paint
- 1 " Green Paint.
- 2 Light Paint Brushes.
- 1 Stretcher.

26 Strips Red Cloth 1" wide 2' long \* Reserve Parties 40 Strips  
48 hours rations.

Section Sergeant will make the necessary subdivisions of the Reliefs notify the men concerned and provide O.C.'s parties with Nominal Rolls of their men. O.C.'s will thereafter keep their rolls up to date from time to time. O.C.'s reserve parties will, in addition, carry Nominal rolls of the parties to which they are in reserve.

(Sd) A. J. Hillman

Captain.

O.C., No. 4 Section.

*MB*

Appendix 239

A.M. 2/274.

*Copy*

Brigade Major,

138th Infantry Brigade/

re Your No. G. 219 of 24/11/17.

The mine shaft referred to connects with the old enemy mine system captured by us in July last.

We are salvaging mine timber sets from portion of these workings and consequently sounds of picking might sometimes be heard in the dugouts mentioned.

(Sd) Alex. Sanderson.

Major,

O.C., 3rd Australian Tunnelling Company.

24/11/17.

Copy sent to 46th Division.

*MB*

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APPENDIX 9<sup>27</sup>

Appendix #398

SECRET AND URGENT.  
\*\*\*\*\*

138th. Inf. Bde.  
No. G.212.  
\*\*\*\*\*

O.C. 3rd Australian Tunnelling Coy R.E.  
\*\*\*\*\*

Reference Map, LOOS 1/10,000.  
-----

A mine shaft has been discovered at Trench Junction H 31 d 15.70., an Officer has gone several yards down this, it runs in the direction of LOOS.

Sounds of "picking" have been heard in dugouts at  
( H 32 c 80.82. (Left Coy, Right Battn)  
( H 32 c 08.68. (Machine Gun Company. )  
( H 25 d 55.50. ( " " " )

Can a qualified Officer be sent at once to investigate these noises please ?

*Hubert*

Captain,

VNB

Brigade Major, 138th. Infantry Bde.

24/11/17.  
\*\*\*\*\*

Copy to 46th Division for information.  
-----

A.M.1/374.

The Chief Engineer,  
1st Corps/

Re your 1489 please.

Herewith is a plan showing the proposed positions of fans and regulating doors for ventilating BORDER-REDOUBT -- St.ELIE and HULLUCH Tunnel systems.

In calculating the sizes of fans I have allowed for a maximum draught equal to 10 feet per second through any particular section such as the HULLUCH Sector. The same fans would supply about 4 feet velocity per second through the entire systems.

Two steel cased paddle wheel type fans of Sirocco pattern, driven by direct coupled electric motors, each having a capacity to deliver 10,000 cubic feet of air per minute at a pressure of 4 inches and about 60 regulating doors will be required for the tunnel systems shown on the plan.

About 80 B.H.P., will be required for each fan at full capacity.

There is sufficient power available in the St.ELIE power plant to run one fan when the tunnel lights are on or both fans at the same time with lights off.

*St. A. Sanderson*

Major,

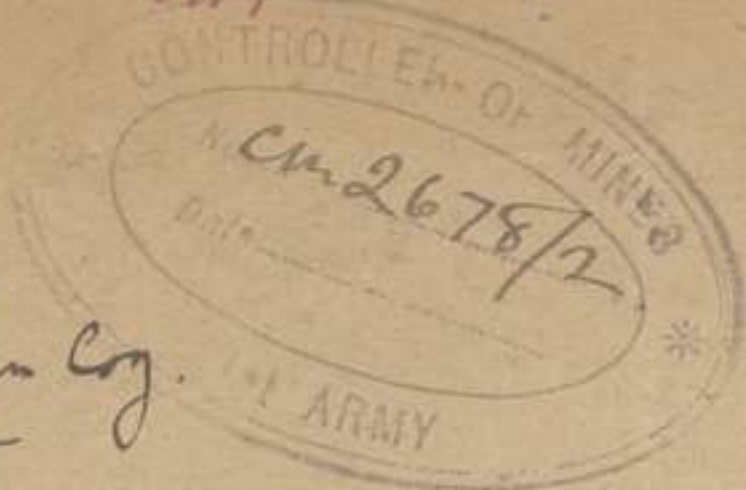
25/11/17.

O.C., 3rd Australian Tunnelling Company.

*NAJ*

APPENDIX 10<sup>a</sup> 11 29

Appendix 10a



0. 856  
3<sup>rd</sup> Aust. Inf. Coy.

For information and retention.

Notes

Lieut. Colonel R.B.  
Controller of Mines,  
First Army.

25  
11/17

Appendix 11.

SECRET.

I Corps No. 208 (G.O.).

ADDENDA to I CORPS No. 206 (G.O) of 28/11/17.

Delete Para. 5 (c) of I Corps No. 189 (G.O.) and insert  
Between Left Division and Corps on the Left

A.27.b.5.4. - Road Junction at A.22.b.2.4. - Canal at  
A.17.d.1/2.3. (Station exclusive), thence along the Canal.

Rendelbye Capt

for Brigadier General,  
General Staff, I Corps.

28th November, 1917.

Copies to all recipients of I Corps No. 189 (G.O.) dated 22/11/17.

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S E C R E T.

I Corps No.206 (G.O).

The following amendments will be made to I Corps No.189 (G.O) "Instructions in event of an enemy retirement opposite I Corps Front", and will come into force from 6 a.m. 29th November, 1917 :-

Para. 4. - First Bound - after "QUARRIES (inclusive)" add "Enemy's Front Line System".

Second Bound - after "CITE ST.ELIE (inclusive)" add "FOSSE 8 (inclusive) - AUCHY (inclusive)".

Para. 5 (b) - substitute -

(b) Between Right Division and Left Division HOBBS ALLEY to point H.20.d.8.9. - H.21.a.4.5. - HIVE ALLEY (all inclusive to Left Division).

N.B. - This alteration has already come into force.

Para. 7 (a) - Below line 10 "H.32.c.7.5 ..... 12 pairs" insert "H.26.c.3.3. .... 12 pairs".

Add at end of sub-para: (a) -

G.4.a.55.30. .... 5 pairs.

A.28.c.25.50. .... 8 pairs.

A.27.b.15.50. .... 8 pairs.

Direct lines to PIP HOUSE Exchange.

Para. 9 (a) - Alter line 1 to read -

"There will be 6 investigating parties - A.B.C.D.E. & F"

Cancel detail of parties and substitute -

3rd Australian Tunnelling Coy:.

- Party A. - Working with Right Brigade, Right Division.
- Party B. - Working with Centre Brigade, Right Division.
- Party C. - Working with Left Brigade, Right Division.
- Party D. - Working with Right Brigade, Left Division.
- Party E. - Working with Centre Brigade, Left Division.

170th Tunnelling Company R.E.

Party F. - Working with Left Brigade, Left Division.

*W. S. Sandilands*  
G.S.  
for Brig: General,

28th November, 1917.

General Staff, I Corps.

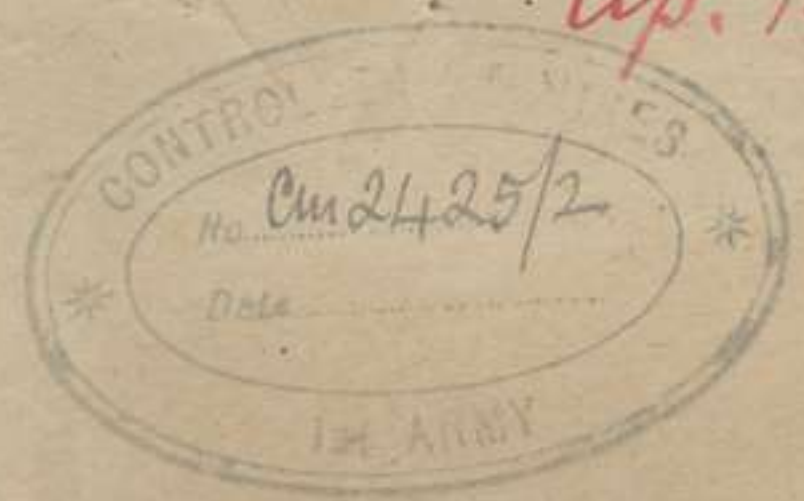
Copies to all recipients of I Corps No.189(G.O) dated 22.11.17.



356



Ap. 13



OZ.  
3<sup>rd</sup> Australian T. Coy

For your  
information.

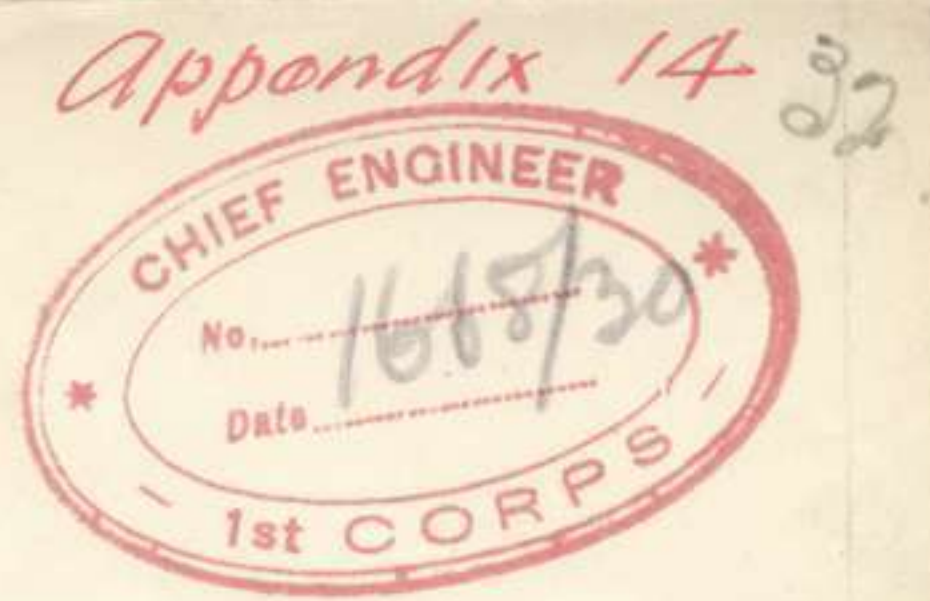
Please take up  
direct with C.E. I look  
the question of replacement  
by a junior officer, as  
it is undesirable for  
a section commander to  
be detailed for road  
work except in case of  
operations + I understand  
you require Capt Williams  
service urgently.

R Stokes  
Lt Col  
C of M

2/11/17



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Copies.  
— You can 2406/2 of 31/10/17  
although it is quite recognized  
that Capt A.T. Hillman is only  
on temporary loan from the  
3<sup>rd</sup> Australian T. Coy, it would  
be very inconvenient to lose  
his services at the present  
moment. If possible will you  
let the matter remain as it  
is for a while?

Mrs Towson  
B.C.

CE 1 Corps.

1.11.1917



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Appendix 15

19  
1128

AUSTRALIAN IMPERIAL FORCE.

Headquarters Australian Imperial Force.  
attached 1st Anzac Corps.

4th November 1917.

O.C.,  
3rd Aust. Tunn. Company.

No. 4452 Sapper O. PRITCHARD, 3rd T. Coy.

In view of a communication which has been received from Defence Department, Melbourne, approval has been given for the abovenamed man to be returned to Australia, and discharged from the A.I.F. for family reasons.

Please send him to report to A.I.F. Administrative Headquarters, London, for passage accordingly.

*The number and date of this memo to be quoted as the authority for the move*

*Hodgkinson Sr*

Colonel,  
D.A.G. A.I.F.

*No H Sec*

*✓ AM [unclear]  
25/12/17*

Appendix 15

Mr.

ANZAC SECTION, 3rd ECHELON, G.H.Q.,  
British Expeditionary Force,  
26th November 1917.

In reply please quote  
AUS.....99092.....

OFFICER COMMANDING,  
3rd Aust. Tunnelling Company,  
B. E. F.

Re 4452 Spr. PRITCHARD, O.

Your Army Form B.213 dated 11-11-17 shows the above-named soldier "transferred 10-11-17."  
May particulars to which this soldier was transferred be advised please.

*[Signature]*

2/Lieut.,  
Officer i/c Records.

*✓*

*PR*

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APPENDIX 15 24



Appendix 15

Mr 356

ANZAC SECTION, 3rd ECHELON, G.H.Q.,  
British Expeditionary Force,  
28th December 1917.

In reply please quote  
AUS.....107474.....

Officer Commanding,  
3rd Australian Tunnelling Coy.,  
B. E. F.

May reply be expedited please in regard to this  
Office Memo No. 99092 of 26-11-17., which reads as follows :-  
"Re 4452 Spr. PRITCHARD, O."

"Your Army Form B.213 dated 11-11-17 shows the above-  
"named soldier "transferred 10-11-17."  
"May particulars of unit to which this soldier was  
"transferred be advised please."

See our  
AM 1/422  
25/12/17

Officer i/c Records

2/Lieut.,

556

APPENDIX 16 / 1605



A.I.F. 1. 10.5.17. 100M. O.L.D.

IN REPLY PLEASE QUOTE



Appendix 16.

TELEGRAPHIC ADDRESS: "ADMINAUST, LONDON."

CABLE ADDRESS: "STRALIS, LONDON."

TELEPHONE: VICTORIA 8860 (8 Lines)

Ab. 4306/5/3

# AUSTRALIAN IMPERIAL FORCE.

Administrative Headquarters, A.I.F.,

130, HORSEFERRY ROAD,

LONDON, S.W. 1.

9th, November 1917.

Headquarters A.I.F.,  
Attached 1st Anzac,  
B.E.F.

Copy for information to:-  
1st Aust. Tunlg. Coy. B.E.F.,  
2nd " " " "  
3rd " " " "  
Headquarters, 5th Aust. Div. B.E.F.  
3rd. Aust. Div. Base Depot, B.E.F.

### Postings of Church of England Chaplains.

Will you please advise dates on which the undermentioned took up duty with the Units shown - No notification of their postings thereto has yet appeared in A.I.F. Orders:-

Chaplain the Rev. P. BAKER.	-	To 1st Aust. Tunlg. Coy.
" " " W.J. HICKS	-	" 2nd " " "
" " " T.J. REDHEAD-	"	3rd " " "
" " " W.C. SMITH	-	" 8th Aust. Inf. Bgde.
" " " C.W.T. ROGERS-	"	3rd A.D.B.D.

12 ✓

*Handwritten signature*  
Colonel.  
Commandant.

Appendix 17

C.M./2653 /2.  
First Army.

36

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O.C., 3rd Aust. Tun. Coy.  
-----

Would you please send me a drawing of your standard dugout entrance, shewing form of timbering and the position of first step in relation to bottom of trench.

There are considerable differences of opinion as to details of dugout entrance and I propose to construct half a dozen types at the Mine School for close comparison. The main difference of opinion is at the mouth of the entrance itself, - some advocating a rapid fall from the trench to gain good cover as speedily as possible, and others a flat entrance, with comparatively poor cover, to provide easier access and afford better control over trench mud and water.

First Army, H.Q.,  
23rd Nov., 1917.

*R. E. ...*

Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

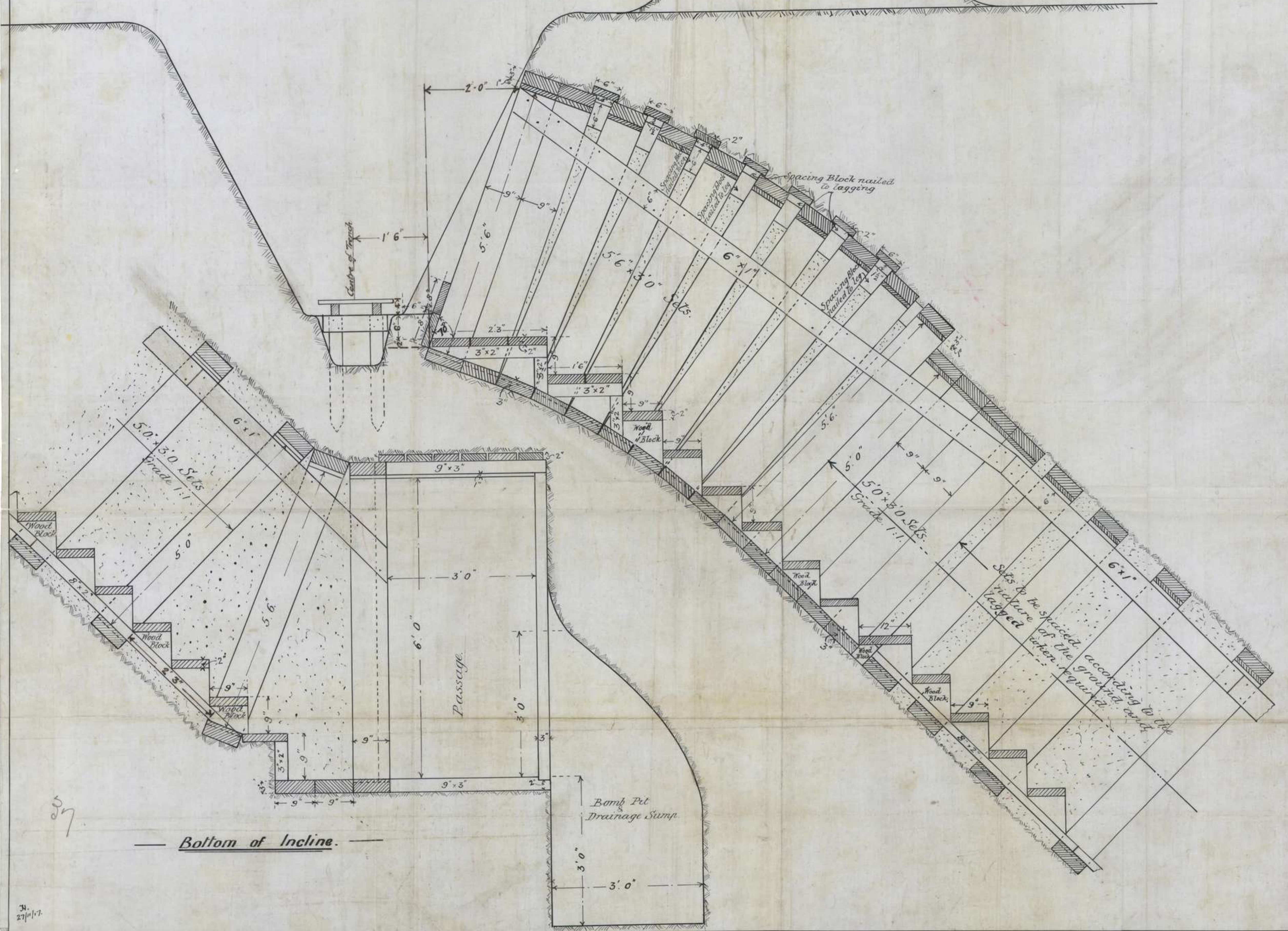
*L*

# STANDARD ENTRANCE TO DUG-OUT FROM TRENCH

Scale: One Inch = One foot.

Alex. Sanderson  
Major  
3/12/17.

3rd Australian Tunnelling Coy



Bottom of Incline.

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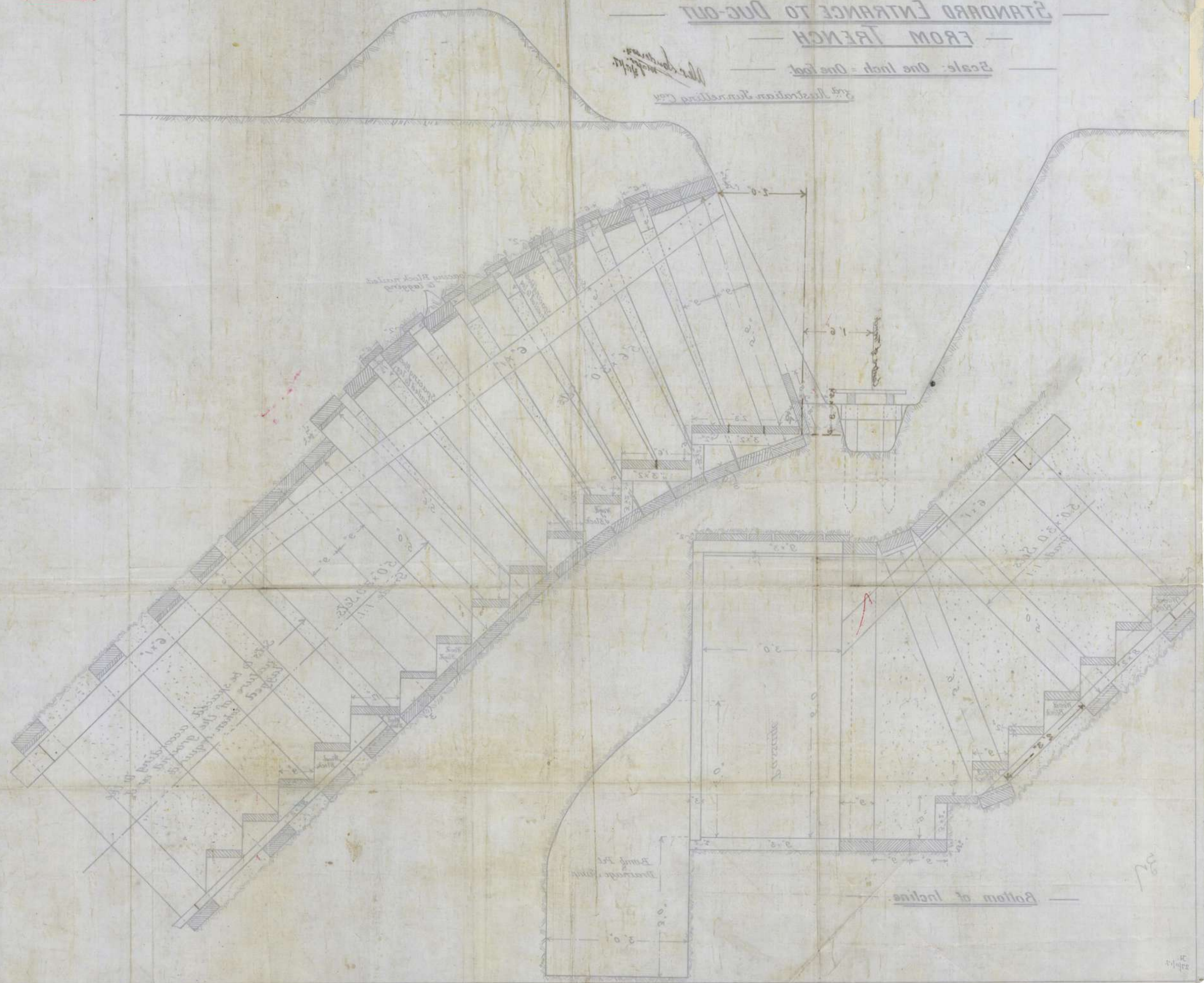
356

STANDARD ENTRANCE TO DUG-OUT  
FROM TRENCH

Scale: One Inch = One Foot

The Australian Tunneling Coy

*Handwritten notes:*  
The trench is 10 ft wide  
at the entrance



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APPENDIX 18/58



Appendix 18

11th. Division No. G.N/32.

3rd. Australian Tunnelling Coy.

356

It was noticed today that in several cases (e.g. in COB Trench and in the Reserve line near EASTER Trench) chalk spoil brought up by Tunnellers had been thrown out in the dark in the neighbourhood of dug-outs under construction.

In an aeroplane photograph, the position of the dug-out would be easily found.

Will you please give some instructions so that new earth is sufficiently disguised to make it safe from air observation ?

*act white*

Captain,

25th. November 1917. General Staff, 11th. Division.

*Capt. Brown o.c. No. 2. Section.*  
*Capt. Morris " No. 3. "*

*J.H. B.*

*A.B. M.*

*Please note and return.*

*It should not be necessary to call the attention of officers to the need for camouflage before daylight chalk spoil tipped near dugouts. Very definite instructions have previously been issued to that effect. Why are they not being carried out? The above memo. refers to work in No. 2 Section's area.*

*26/11/17.*

*Alex. Sanderson*  
*Major*  
*o.c. No. 3. Aust. Tunn. Coy.*



*Appendix 19*

C.M./Ch 2717/2.  
First Army.

O.C., 3rd Aust. Tun. Coy.

Reference your proposal to construct a type Trench Mortar Emplacement at the Mine School, I think the idea is a good one. Please get into touch with O.C. Mine School for arrangement of details, and send me a drawing of the proposed Emplacement.

It will be advisable to obtain the opinions of Chief Engineers, all Corps, before your type is standardised.

First Army H.Q.,  
28th Nov., 1917.

*R. Stokes*

Lieut.-Colonel, R.E.,  
Controller of Mines,  
First Army.

Copy to:- O.i/c Mine School.

For information.

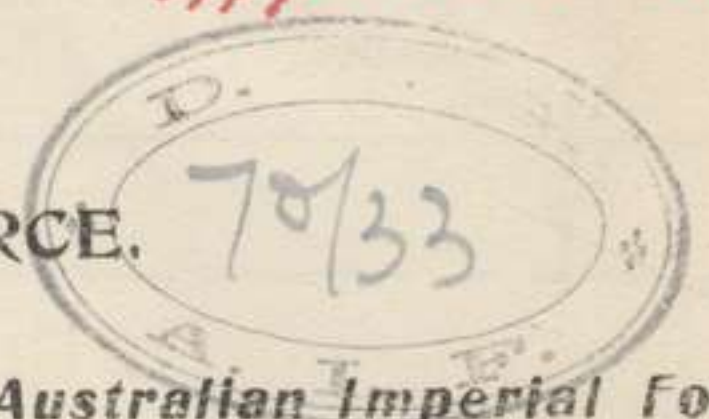
356



APPENDIX 2040

Appendix 20

AUSTRALIAN IMPERIAL FORCE.



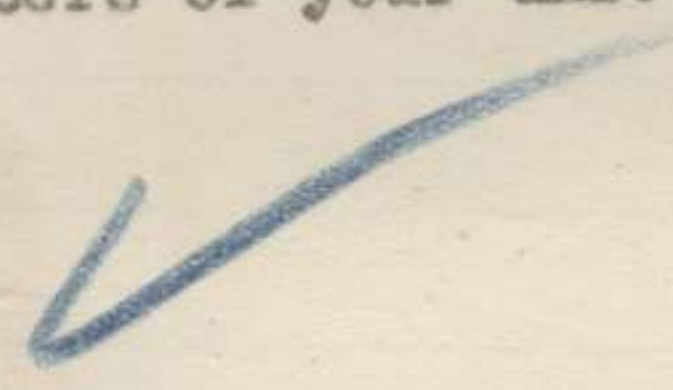
Headquarters Australian Imperial Force,  
attached 1st Anzac Corps.

28th November, 1917.

Headquarters,

3rd Austn. Tunnelling Coy.

The Establishment of a Tunnelling Company  
does not make provision for an Adjutant. Will you please  
therefore discontinue the practice of regarding one of the  
officers of your unit as holding that appointment.



*T.H. Douglas*

Colonel,

D.A.G. A.I.F.

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Appendix 21

A.M.1/893.

411

D.A.G.,

A.I.F.

(Through Controller of Mines,  
First Army)

As the undermentioned officer has been absent from this unit for a period of three months, I recommend that he be placed on the Supernumerary list:-

Lieut.O.R.HOWIE (wounded)  
vide A.I.F. Daily Orders Part 11 No.27  
of 4/7/17.

The undermentioned officers having been returned to Australia, I recommend that they be struck off the strength of this unit:-

Lieut.E.J.GOURLEY (Supernumerary list)  
Returned to Australia vide A.I.F. Order  
No.858 of 13/11/17.

Lieut.R.E.TYLER (wounded)  
Returned to Australia vide A.I.F. Order  
No.950 of 26/10/17.

Lieut.G.T.CRAWSHAW (Services no longer  
required) Returned to Australia vide  
Authority D.A.G., A.I.F. 47/936 dated  
27/10/17.

Major,

39/11/17.

O.C., 3rd Australian Tunnelling Company.

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APPENDIX 22  
42



22

AUSTRALIAN IMPERIAL FORCE.

Headquarters Australian Imperial Force,  
attached 1st Anzac Corps.

27th November, 1917.

O.C.,  
3rd Aus. Tunnelling Coy.

Arrangements have been made for the attendance of 6 candidates at each of the Engineer Cadet Courses commencing on the undermentioned dates at Kelham Hall, Newark, England -

13th January, 1918,  
10th February, 1918,  
3rd March, 1918,  
31st March, 1918.

Units will be asked at a later date to submit nominations for these courses.

*H. D. Ogden*  
Colonel.  
D.A.G., A.I.F.

Copies to -  
Each Div.,  
" Tunnelling Coy.  
A.T.Coy.,  
A.E.M.M. & B.Coy.

SECRET.

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APPENDIX

23

A.M.1/814.

43

Chief Engineer,  
1st Corps/

Replying to your minute No.1488 re suggestion for defending subways by driving poison gas along the tunnels.

It would be quite possible by installing a fan somewhere in the vicinity of the power plant and regulating doors at the junctions of the tunnels to cause a five or six miles per hour breeze along any of the forward subways at any time.

As we have a standby generating set, there is ample power in the existing plant for driving the fan even when the lights are on.

On account of the possible danger to our own troops, I do not think it would be wise to use gas for defensive purposes in the way suggested; but it may perhaps be advisable to instal a system of forced draught in order to clear any portion of the subway system which might be gassed by local enemy shelling or bombing.

Major,

O.C., 3rd Australian Tunnelling Company.

7/11/17.



3<sup>rd</sup> Australian Tunnelling Coy.

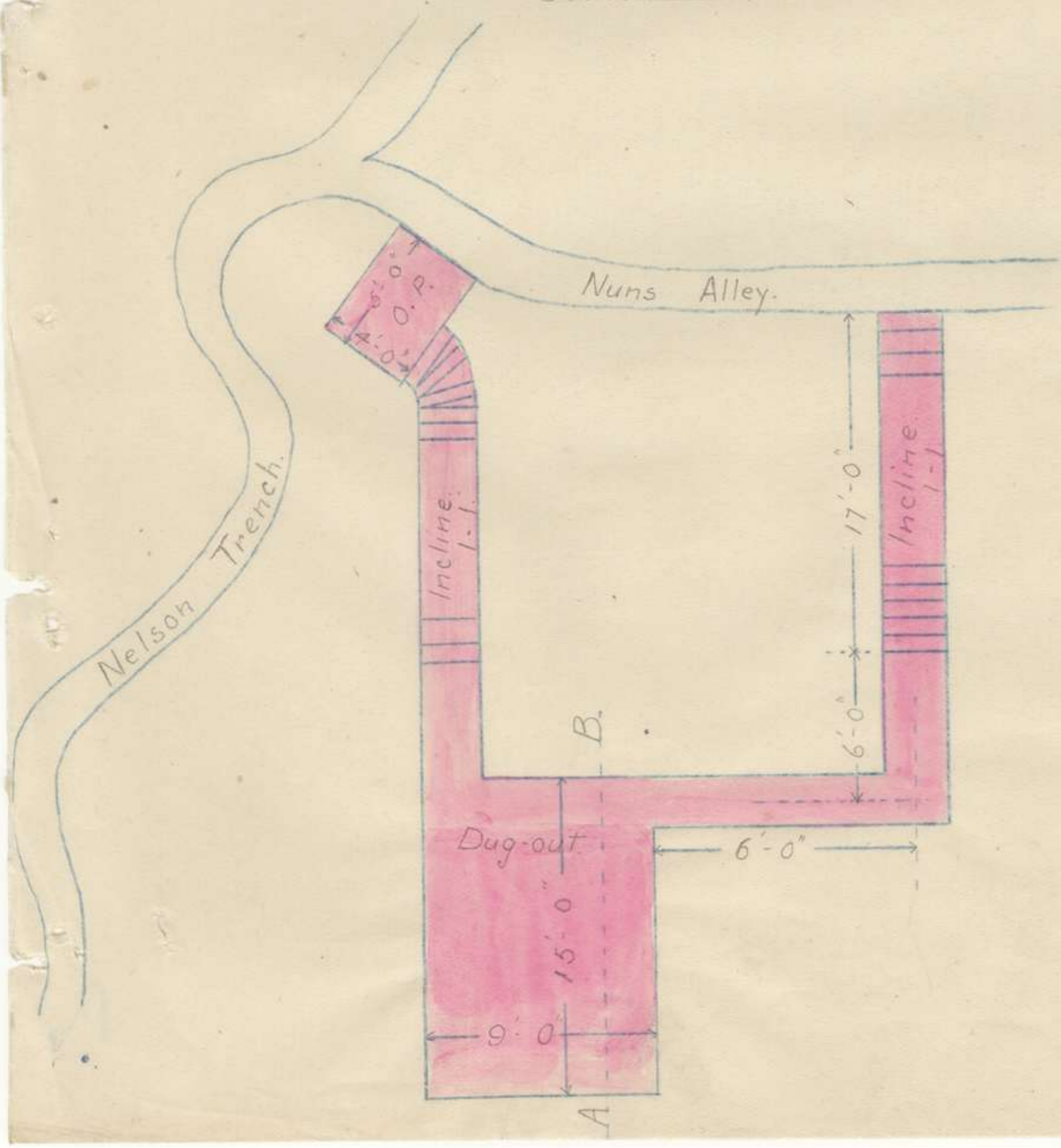
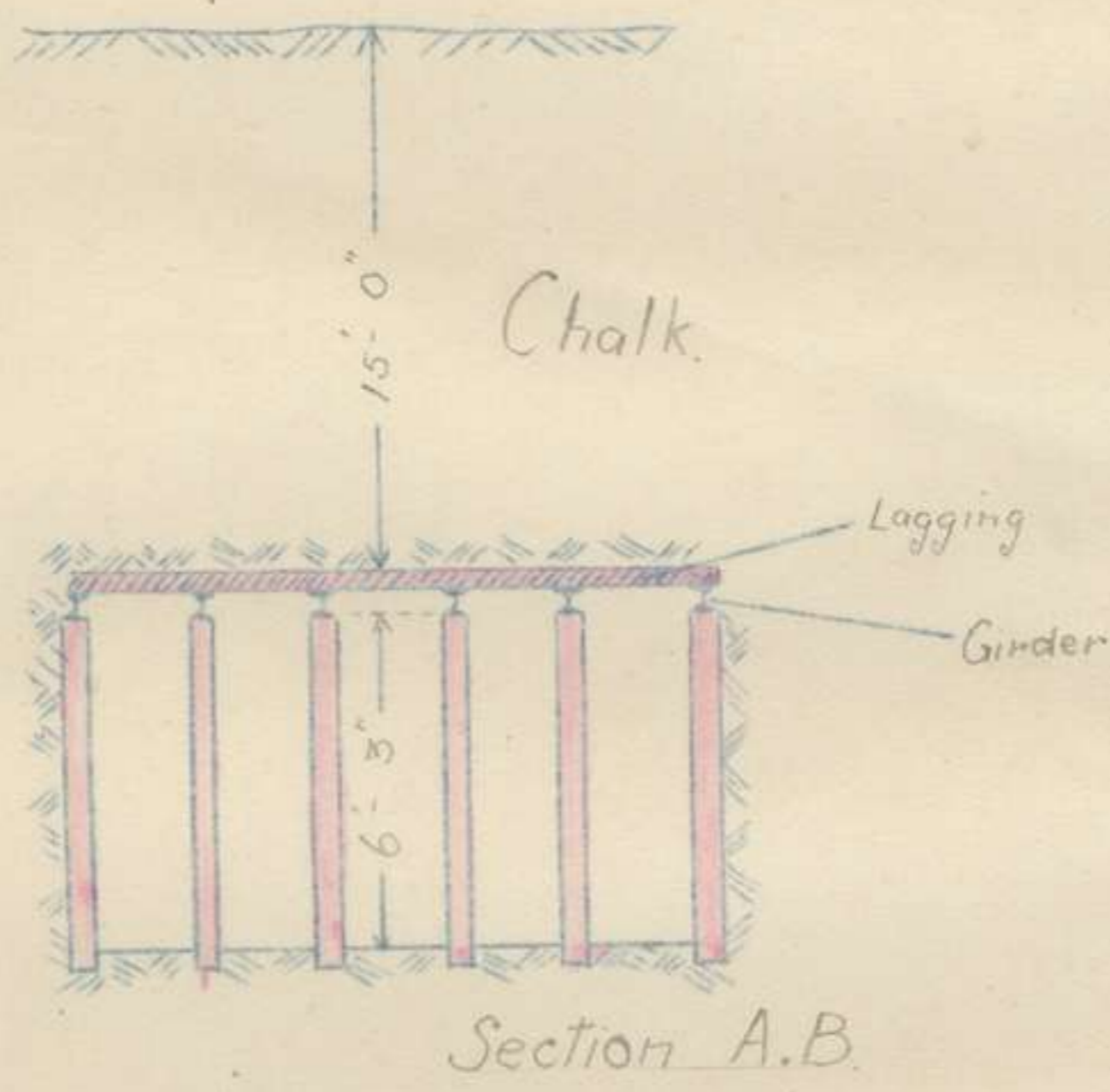
Alterations to Bullfinch. O.P.

Sheet 44<sup>a</sup>

Ref. N2a. 15-85.

Cover. 15'-0"

Sketch A

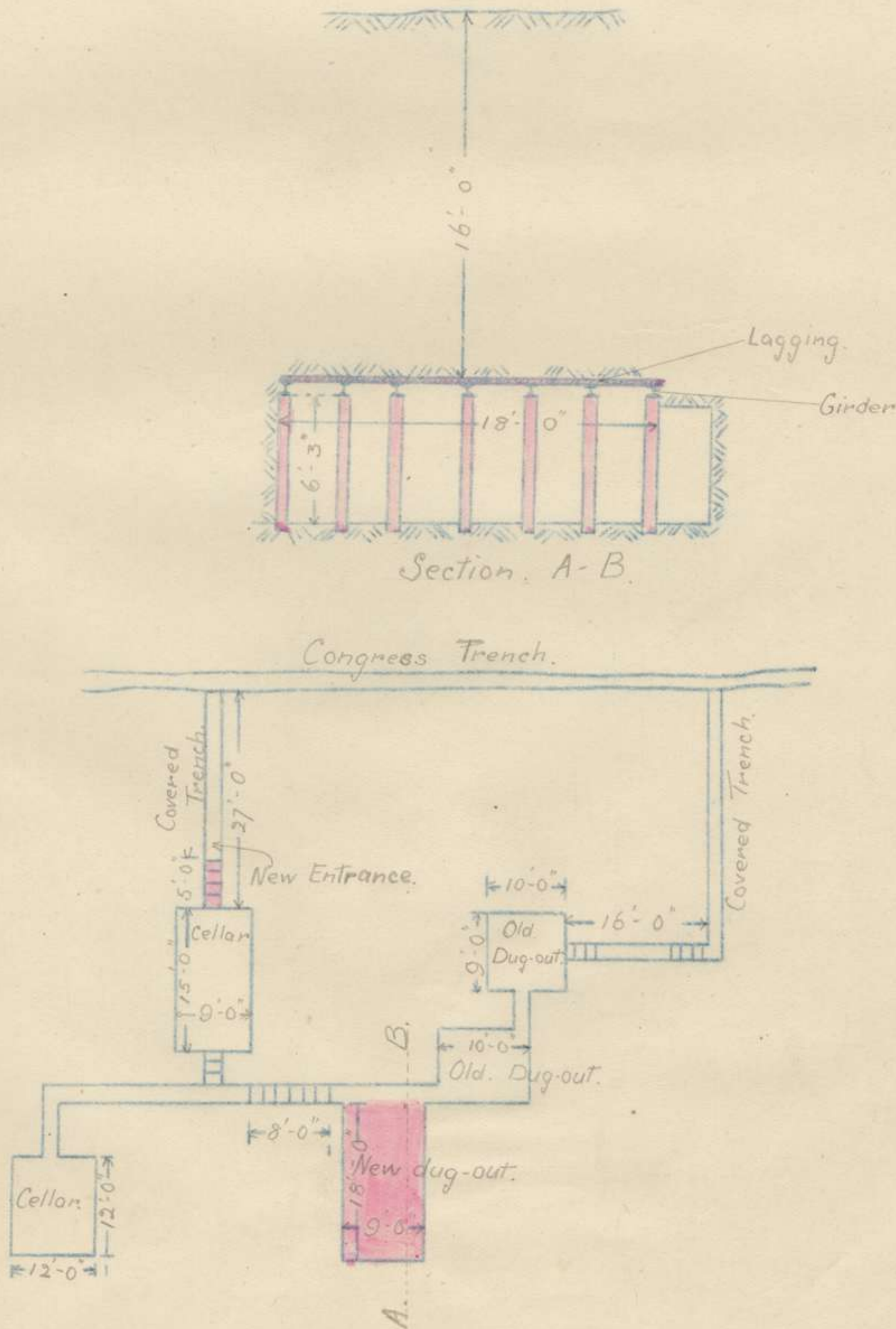


3<sup>rd</sup> Australian Tunnelling Coy.

New Dug-out Congress Trench. Sheet 44<sup>A</sup>. Ref: N7b. 70-80.

Cover 16'-0"

Sketch "B"



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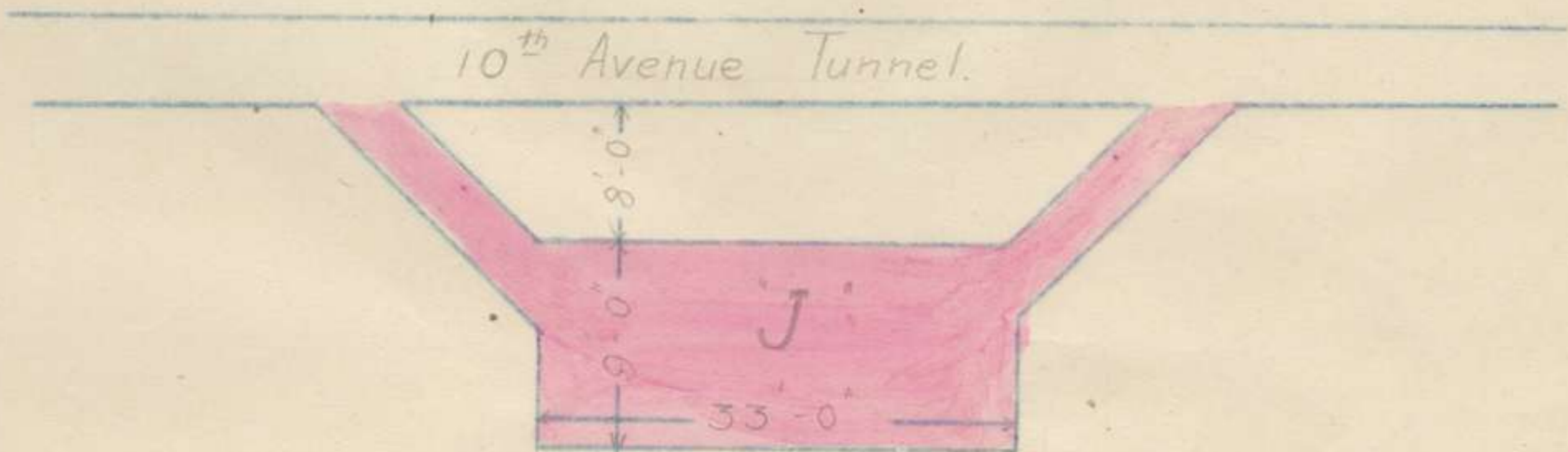
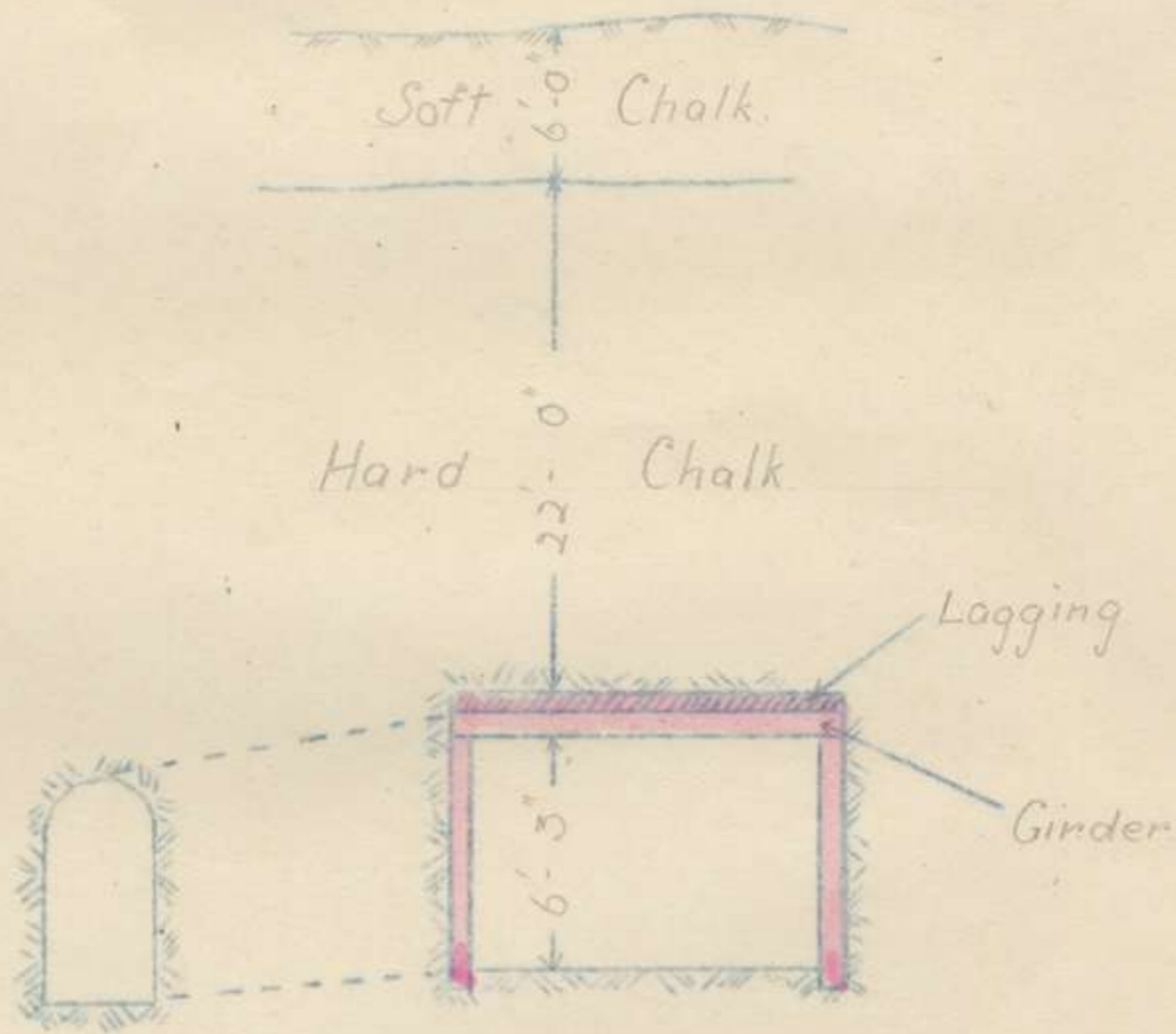
# APPENDIX

3<sup>rd</sup> Australian Tunnelling Coy.

Dug-out "J" 10<sup>th</sup> Avenue Tunnel. Sheet 44<sup>A</sup> Ref: G17b. 95.28.

Cover 28'-0"

Sketch "C"



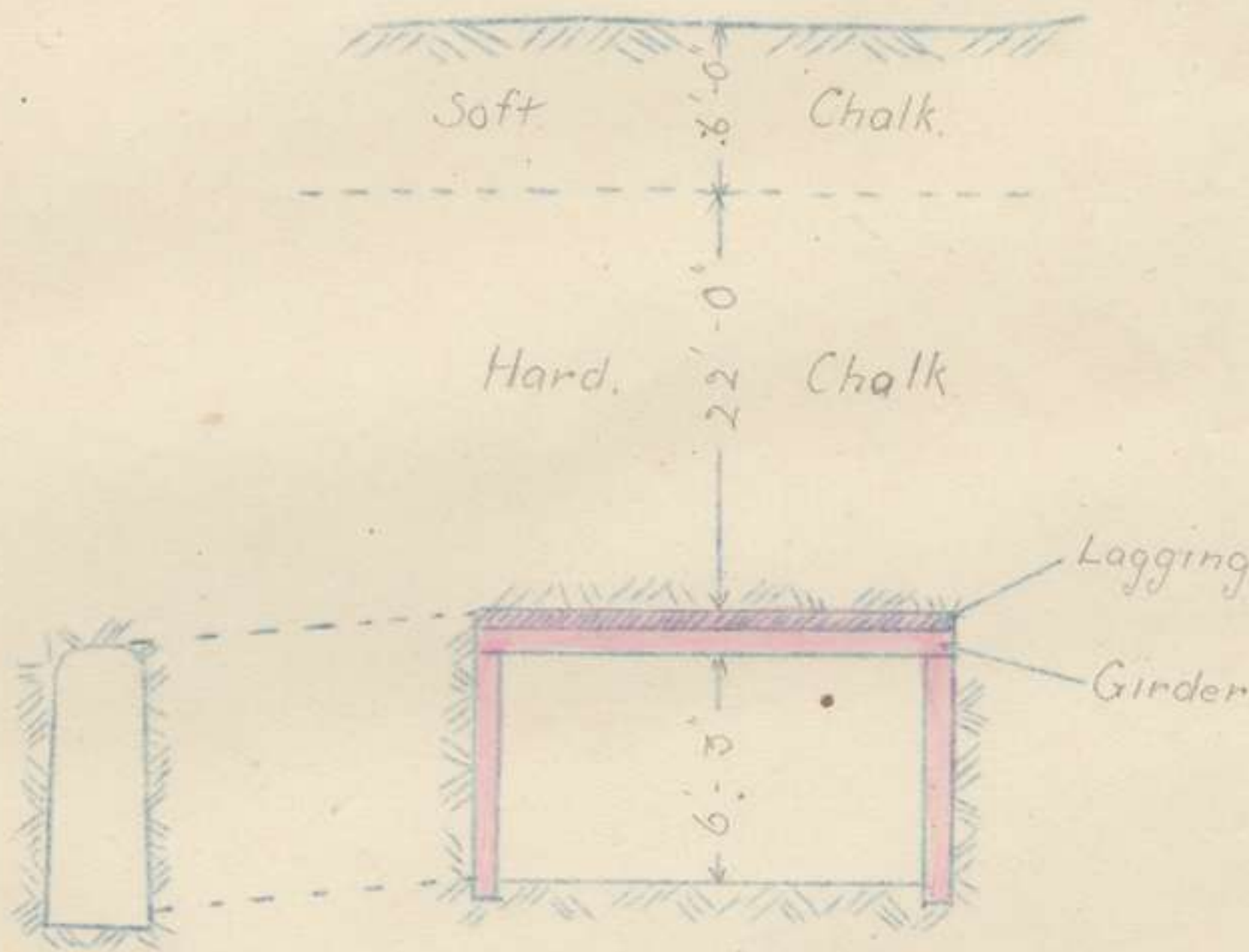


3<sup>rd</sup> Australian Tunnelling Coy.

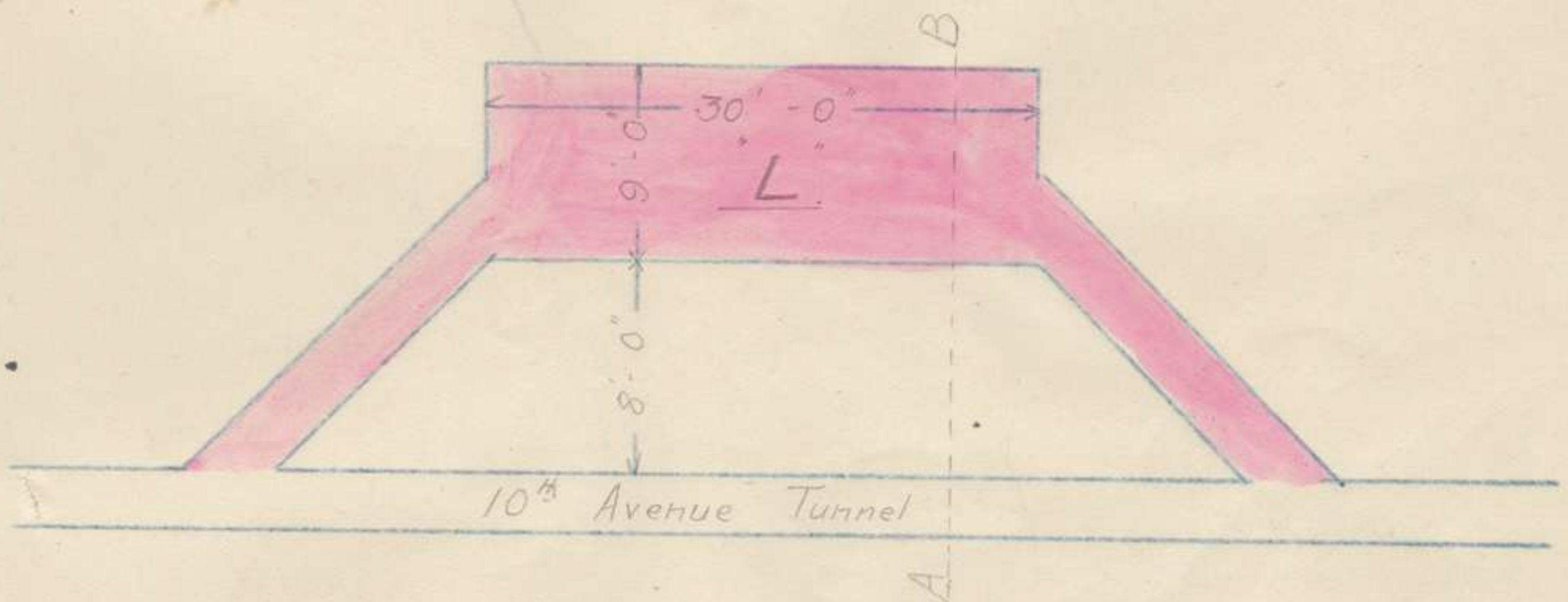
Dug-out 'L' off 10<sup>th</sup> Avenue Tunnel. Sheet 44<sup>A</sup>. Ref. G17b. 95.32

Cover 28'-0"

Sketch "D"



Section A-B



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APPENDIX

3<sup>rd</sup> Australian Tunnelling Coy.

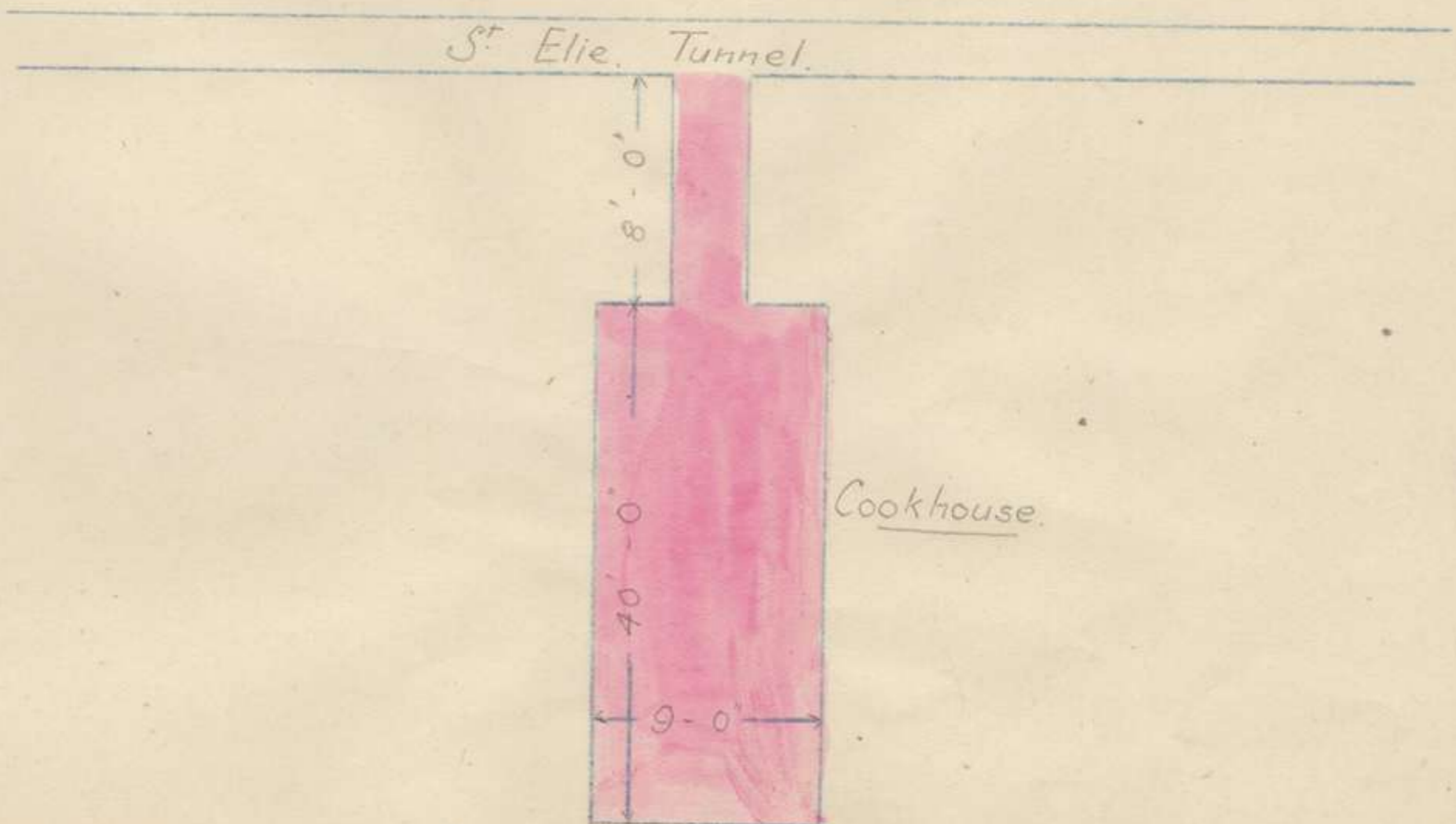
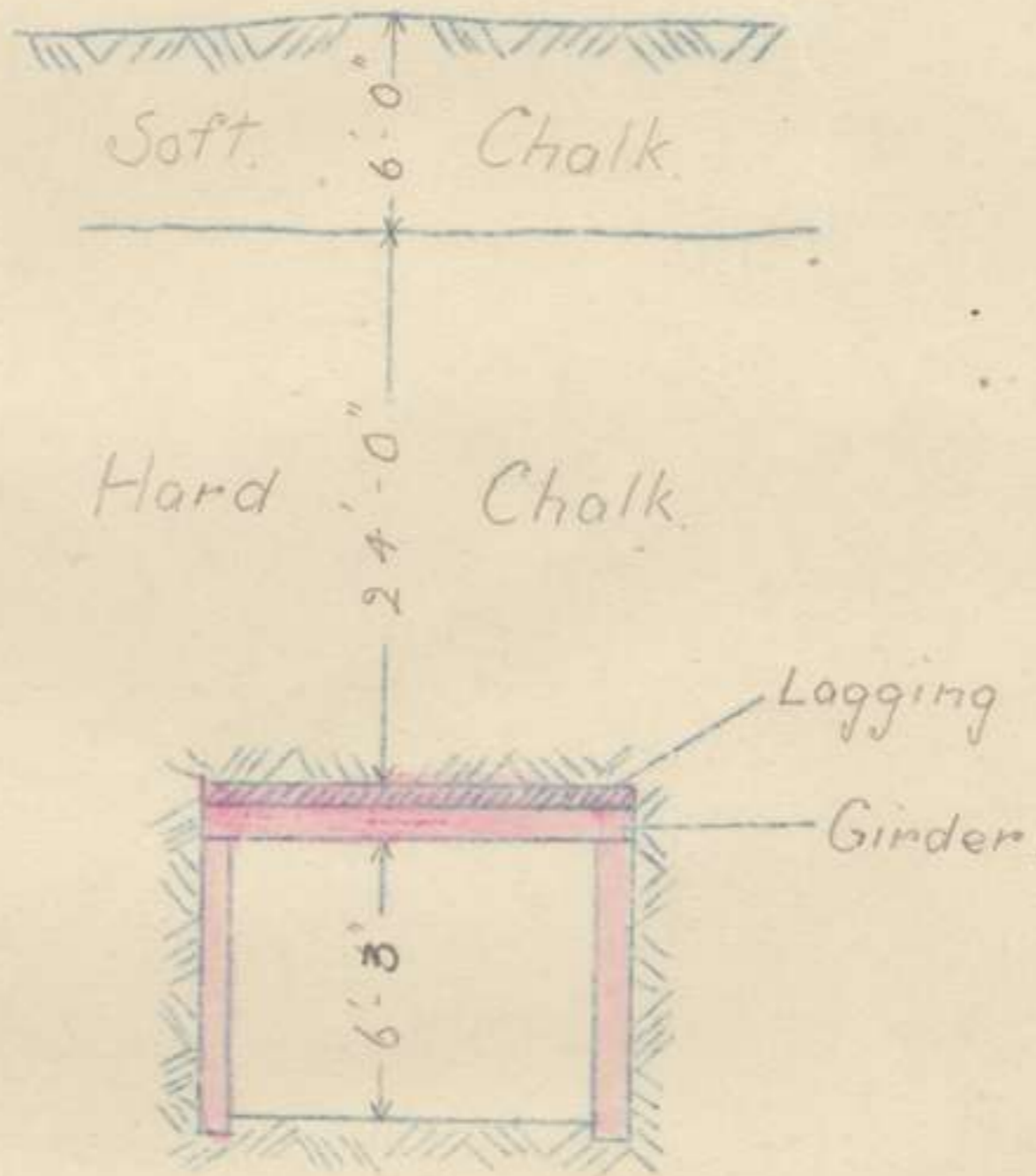
Cookhouse St. Elie Tunnel.

Sheet 44

Ref: G18a-88-95.

Cover - 30'-0"

Sketch "E"



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APPENDIX

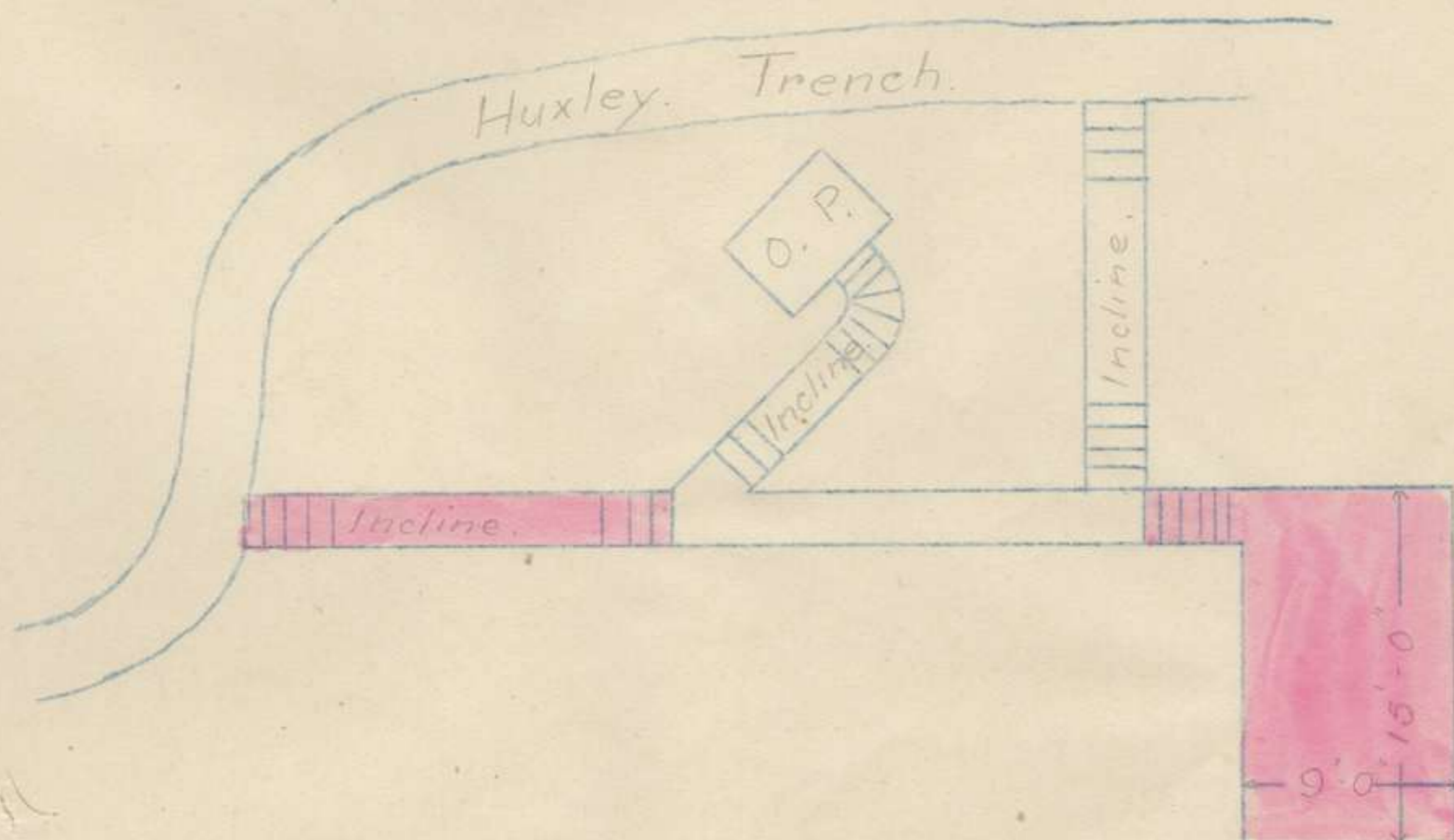
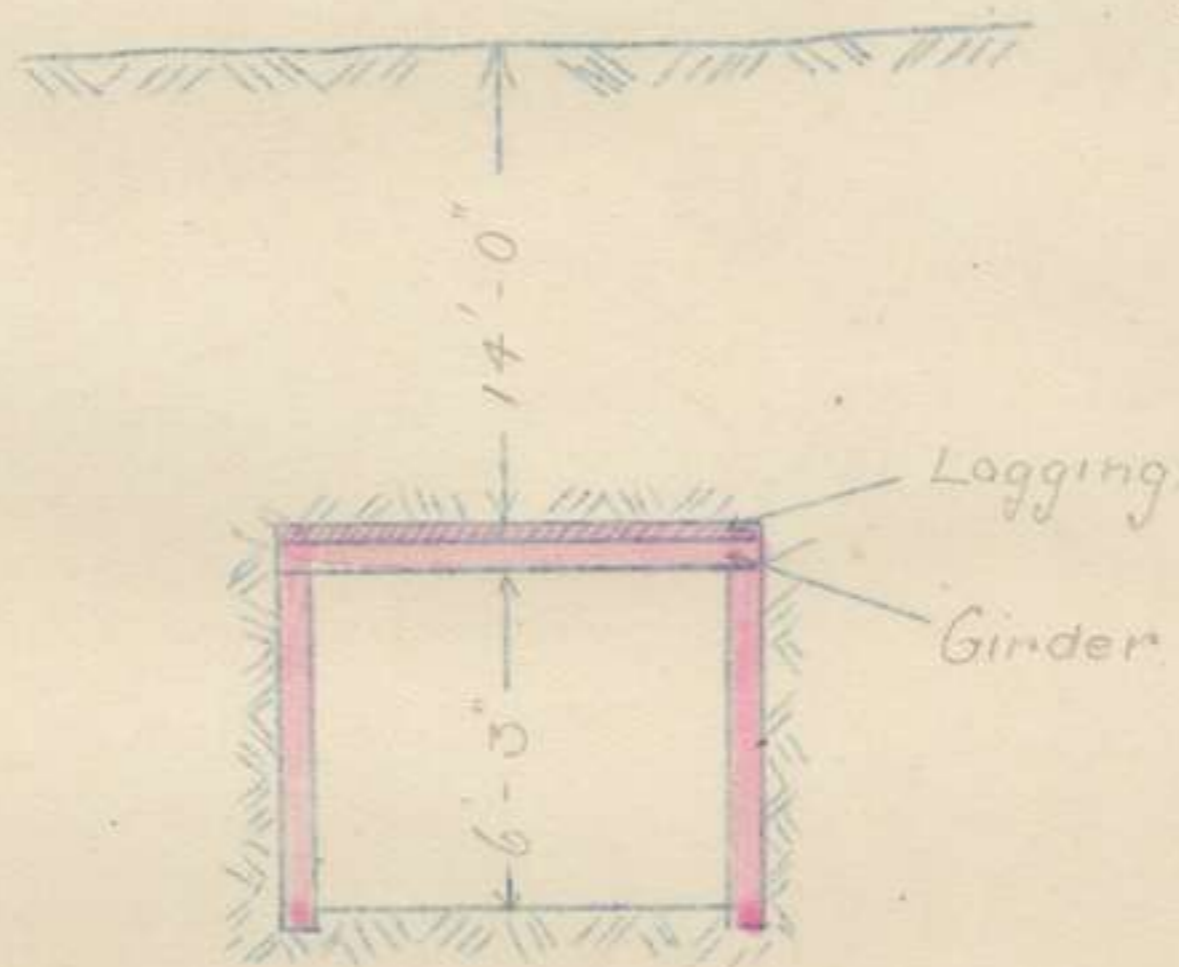
3<sup>rd</sup> Australian Tunnelling Coy.

Dug-out & O.P. "Professor" off Huxley Trench. Sheet 44<sup>A</sup>.

Cover 14'-0"

Ref. H 31d. 50. 95.

Sketch "F"

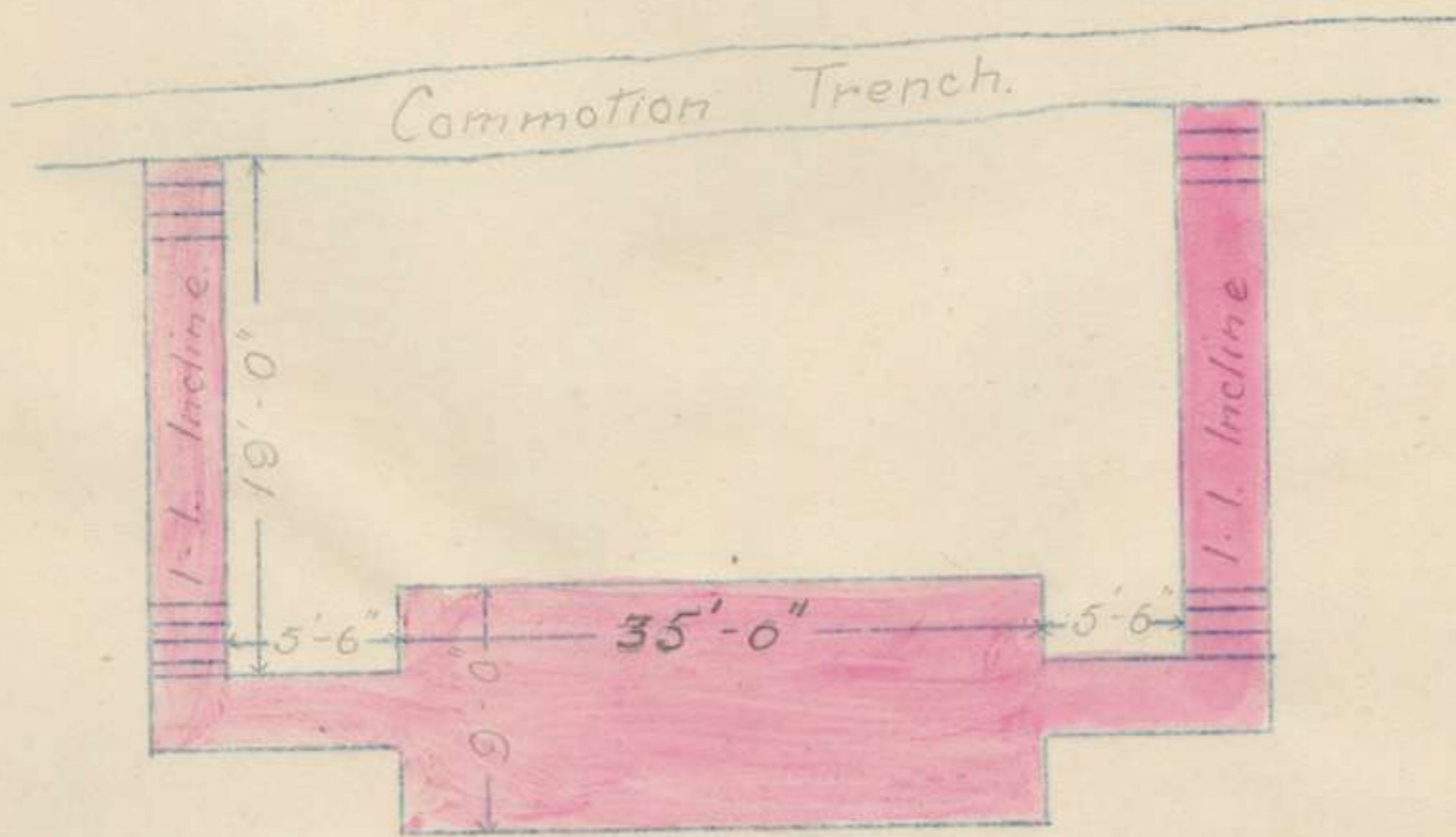


3<sup>rd</sup> Australian Tunnelling Coy.

Commotion Trench Dug-out. Sheet 44<sup>A</sup>. Ref. N.8.c 10.40.

Cover 19'-0"

Sketch "G"

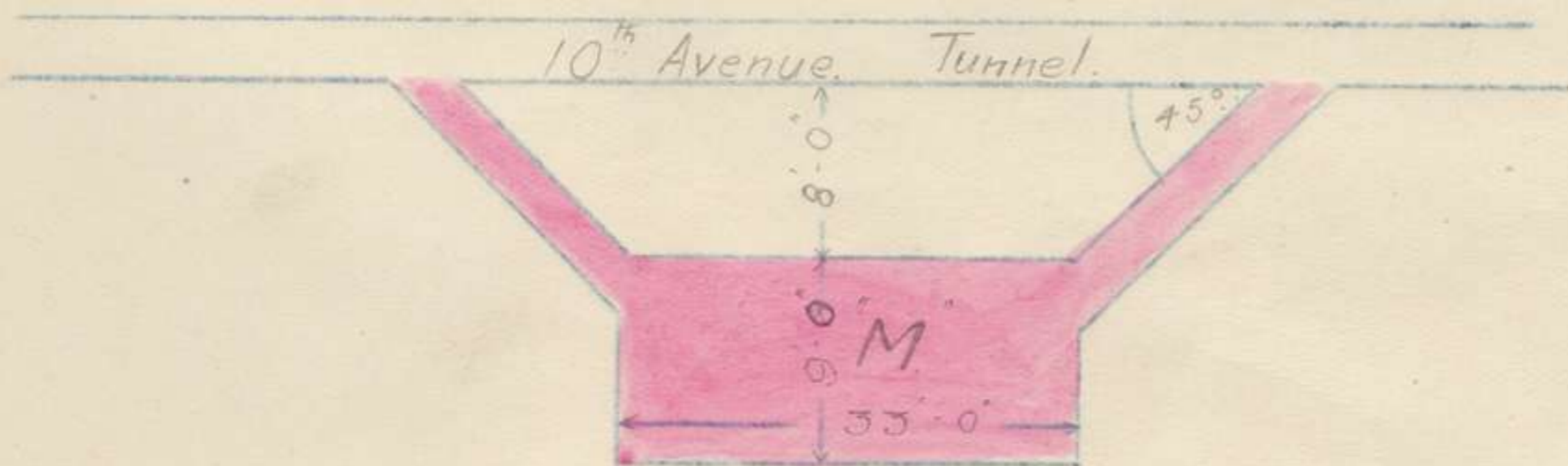
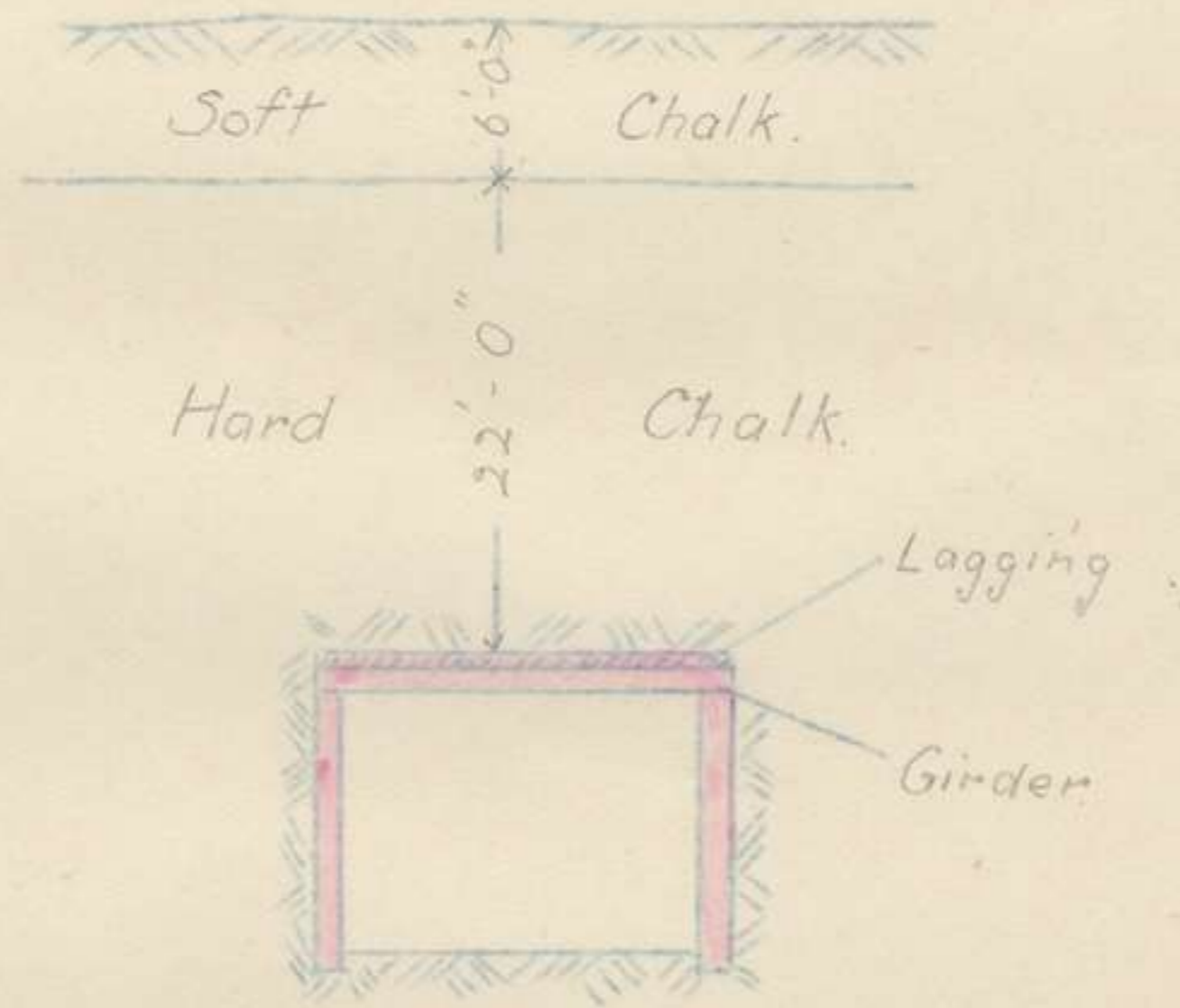


3<sup>rd</sup> Australian Tunnelling Coy.

Dug-out "M" 10<sup>th</sup> Avenue Tunnel. Sheet 44<sup>A</sup> Ref. G17b. 98-32.

Cover. 28'-0"

Sketch "H"

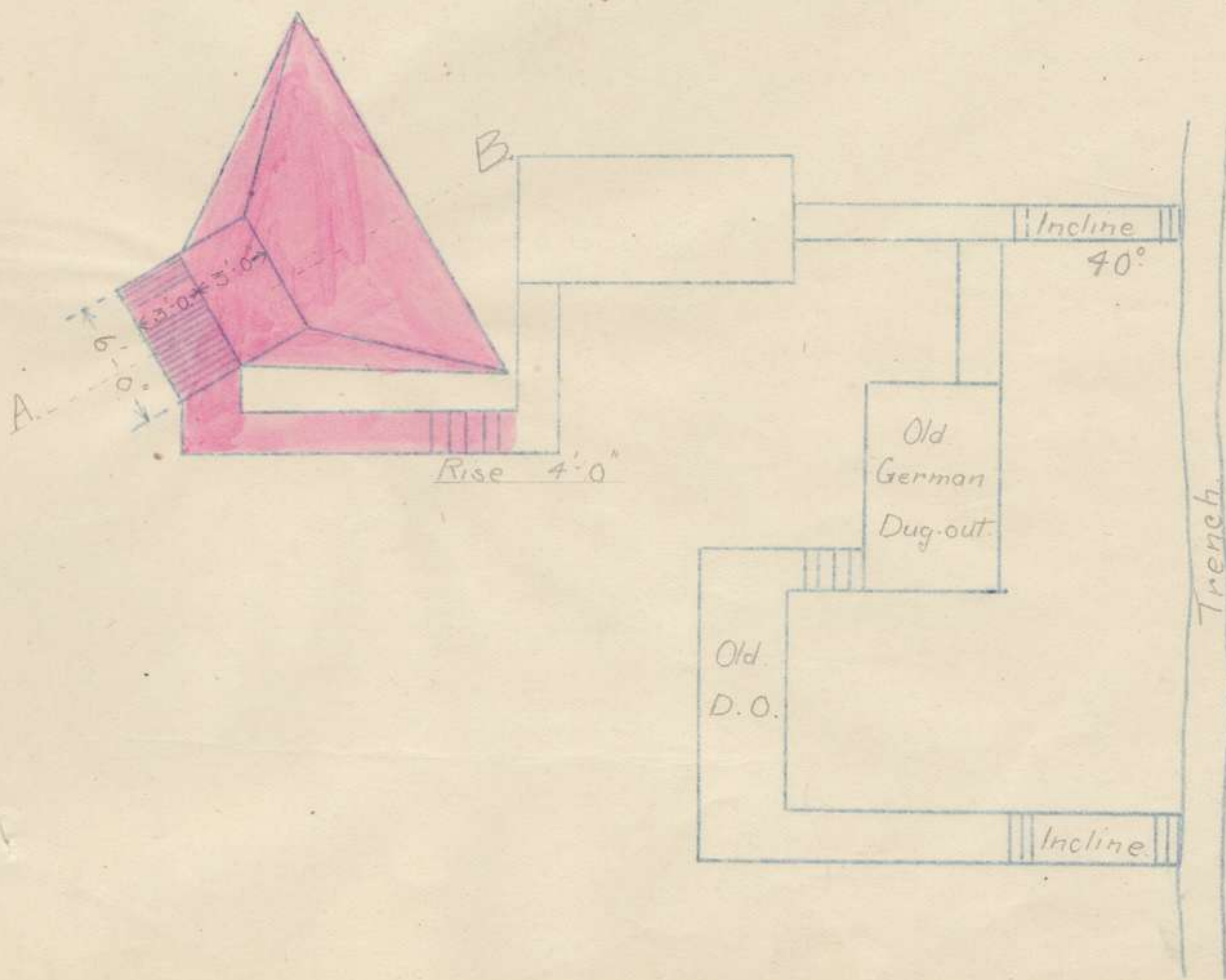
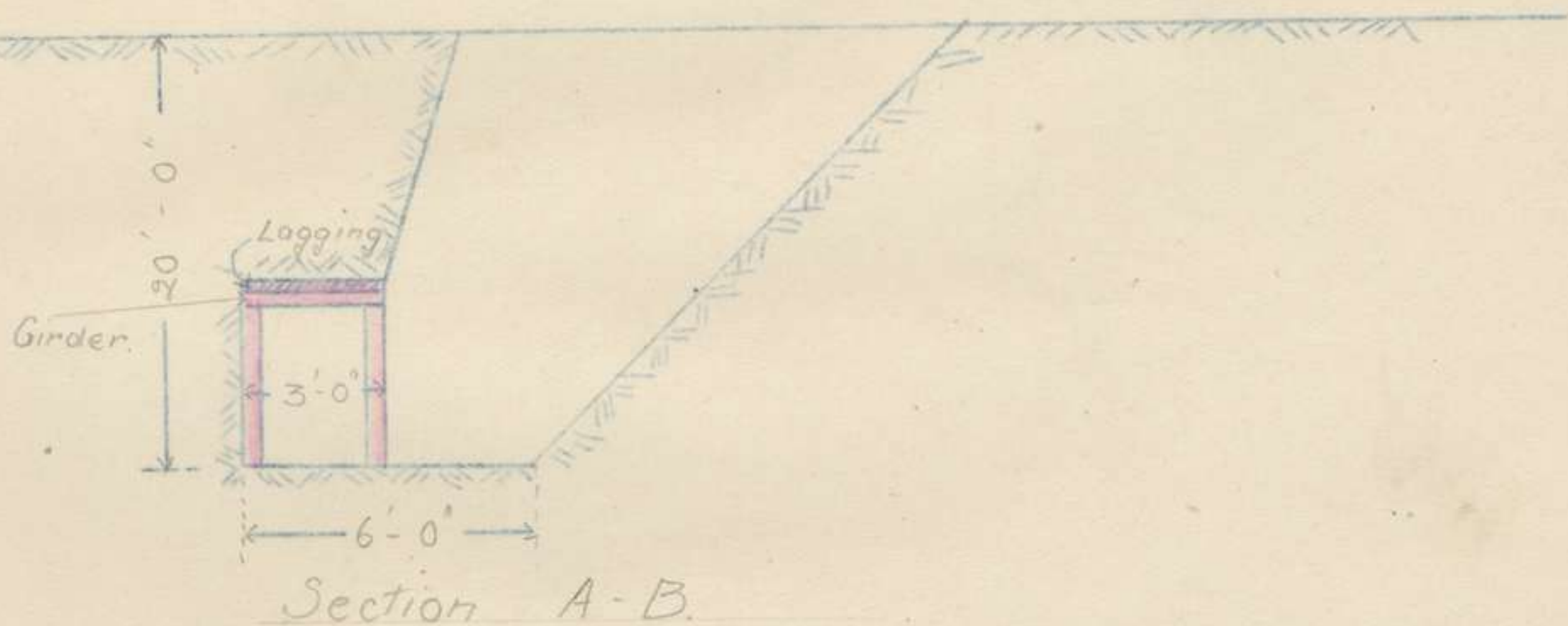


3<sup>rd</sup> Australian Tunnelling Coy.

T.M. Emp<sup>r</sup>. Reserve Line Sheet 44<sup>A</sup> Ref: H 31b. 60.50

Cover 20'-0"

Sketch "J"

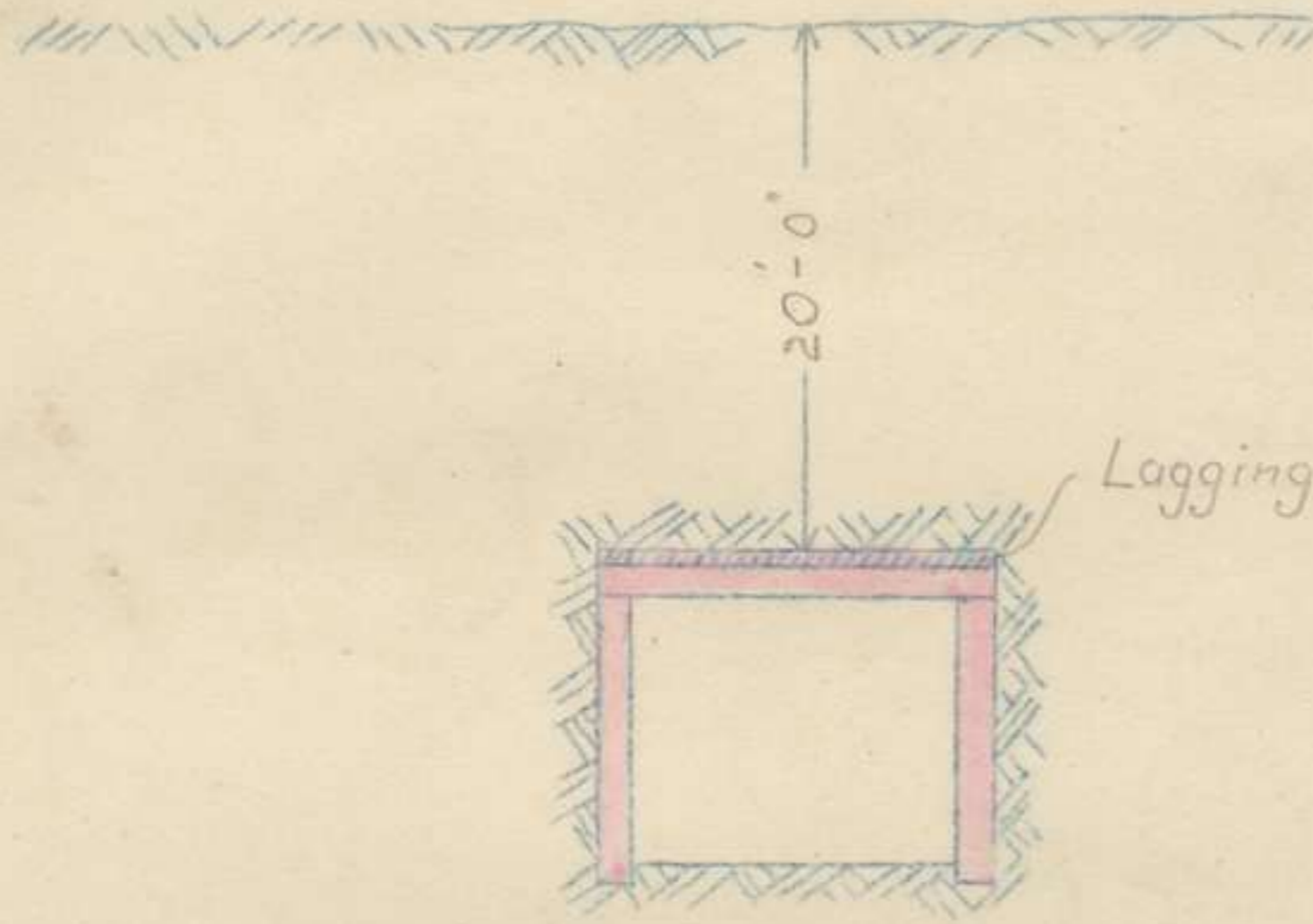


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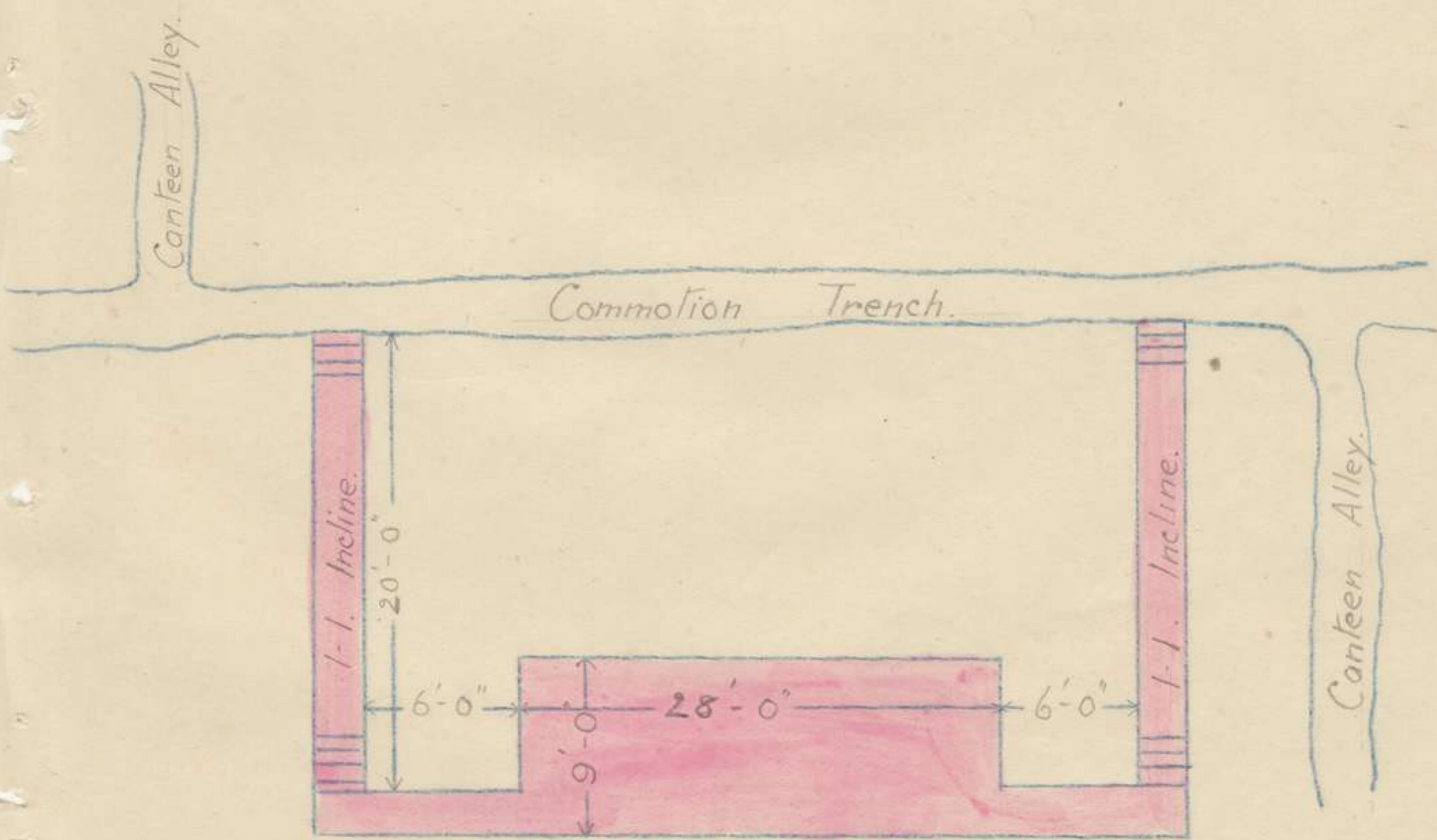
3<sup>rd</sup> Australian Tunnelling Coy.

Dugout. Canteen Alley. Sheet 44<sup>A</sup> Ref: N8a. 95-30.

Cover. 20'-0"



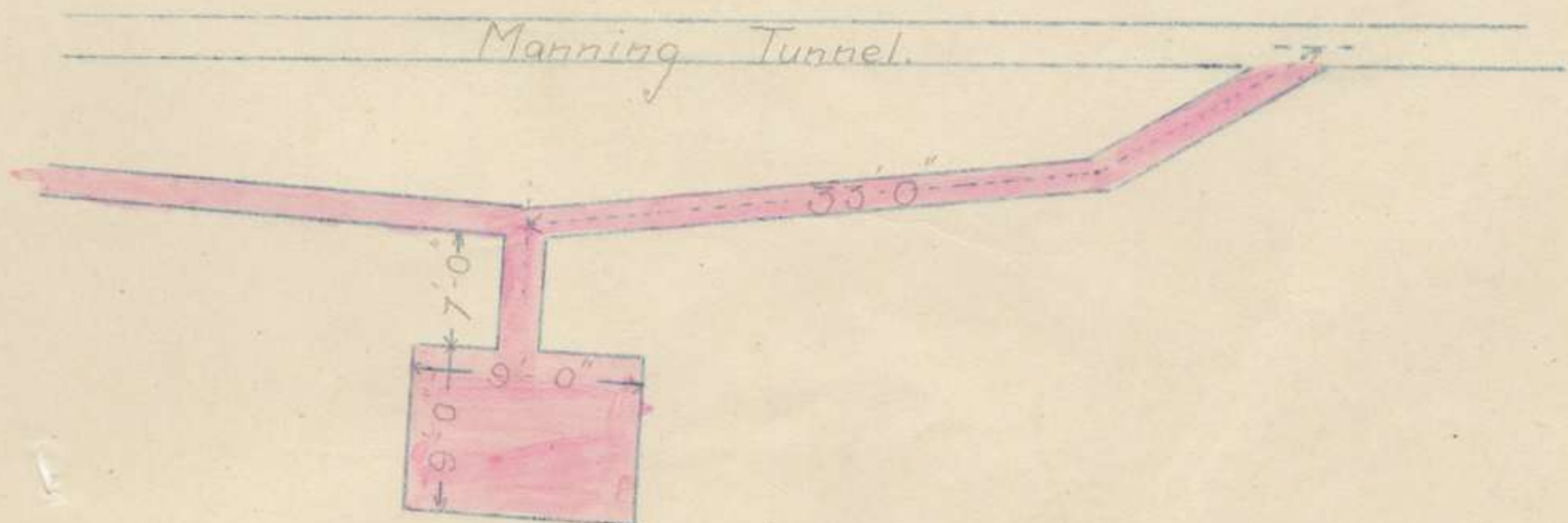
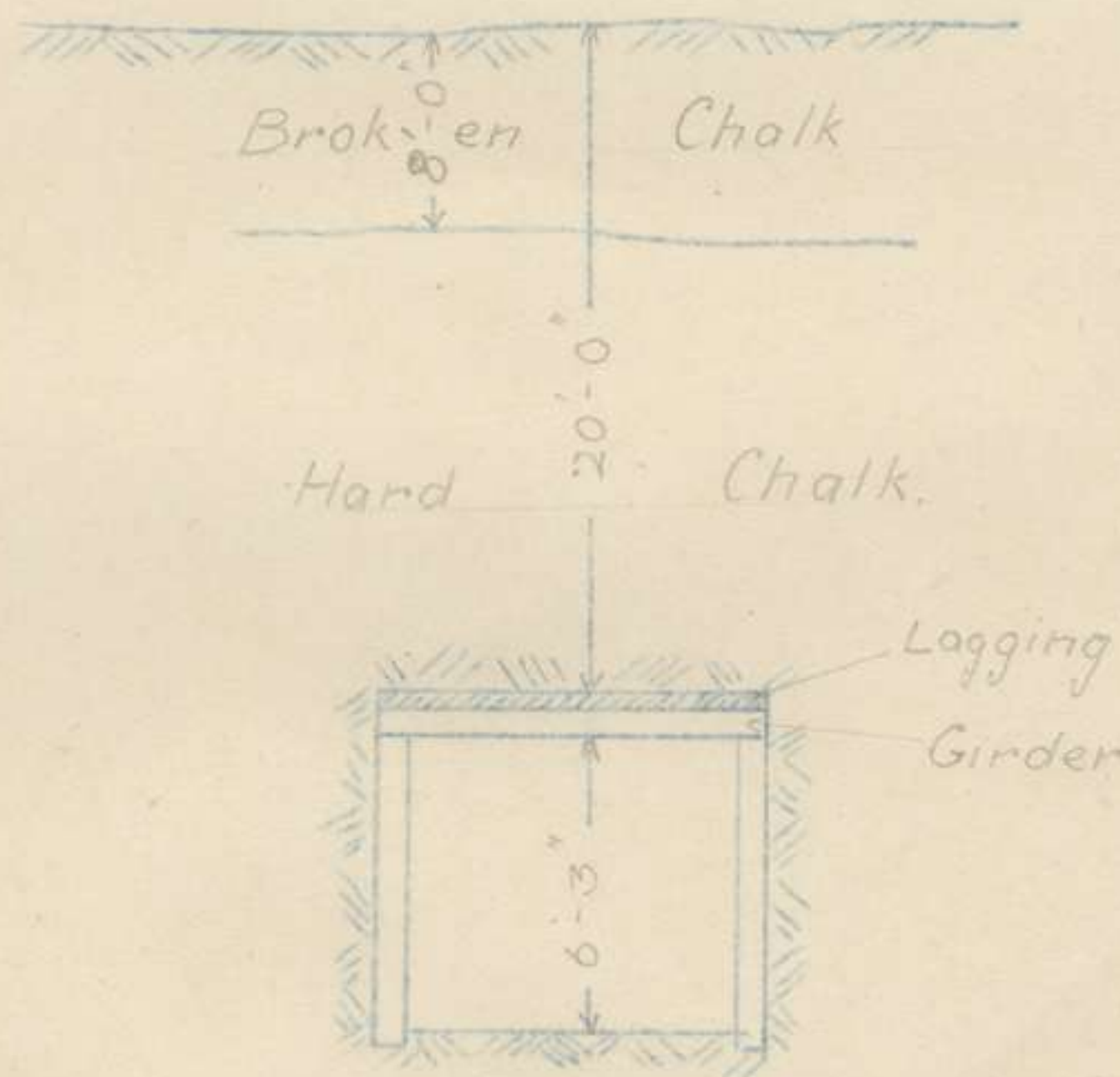
Sketch "K"



3<sup>rd</sup> Australian Tunnelling Coy.

Tool-house off Manning Tunnel. Sheet 44<sup>A</sup> Ref: G11a. 40.00  
Cover 20'-0"

Sketch "L"



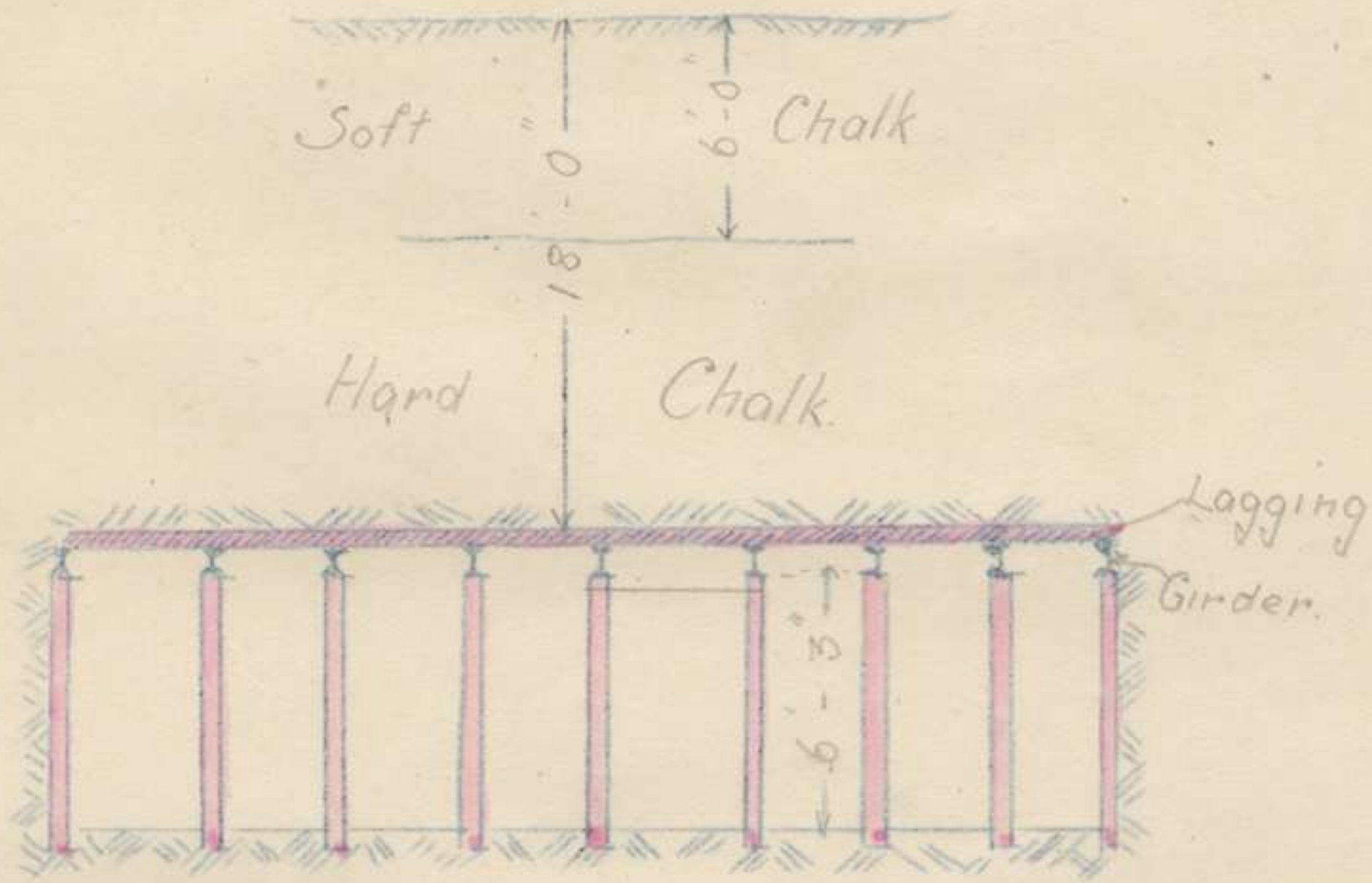


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3<sup>rd</sup> Australian Tunnelling Coy.

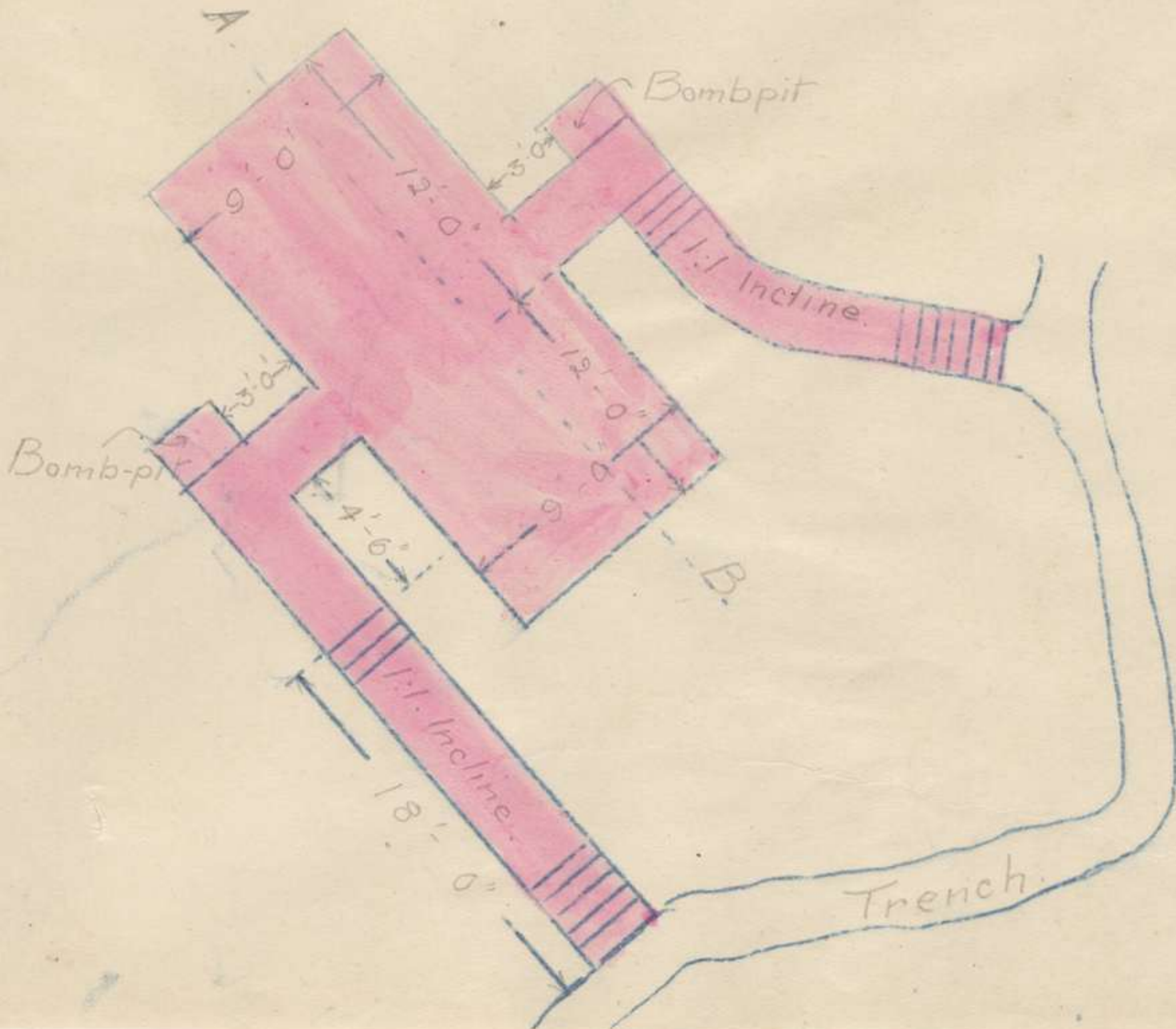
Dug-out Norman Trench. Sheet 44<sup>a</sup> Ref. N2c. 90.75

Cover. 18'-0"



Section A.B

Sketch "M"



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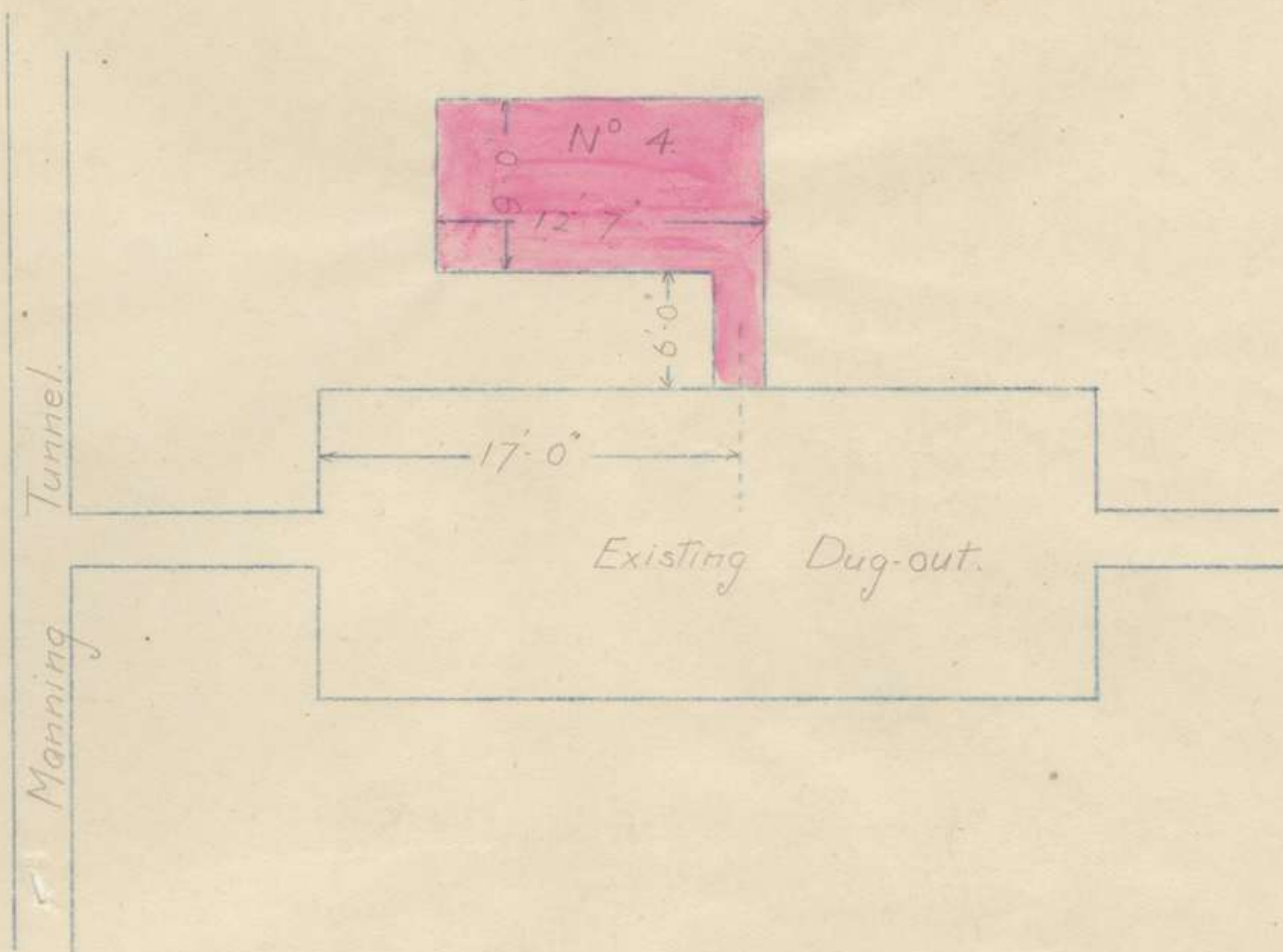
APPENDIX

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3<sup>rd</sup> Australian Tunnelling Coy.

Dugout N<sup>o</sup> 4. Manning Tunnel. Sheet 44<sup>A</sup>. Ref: G11c - 30-90.

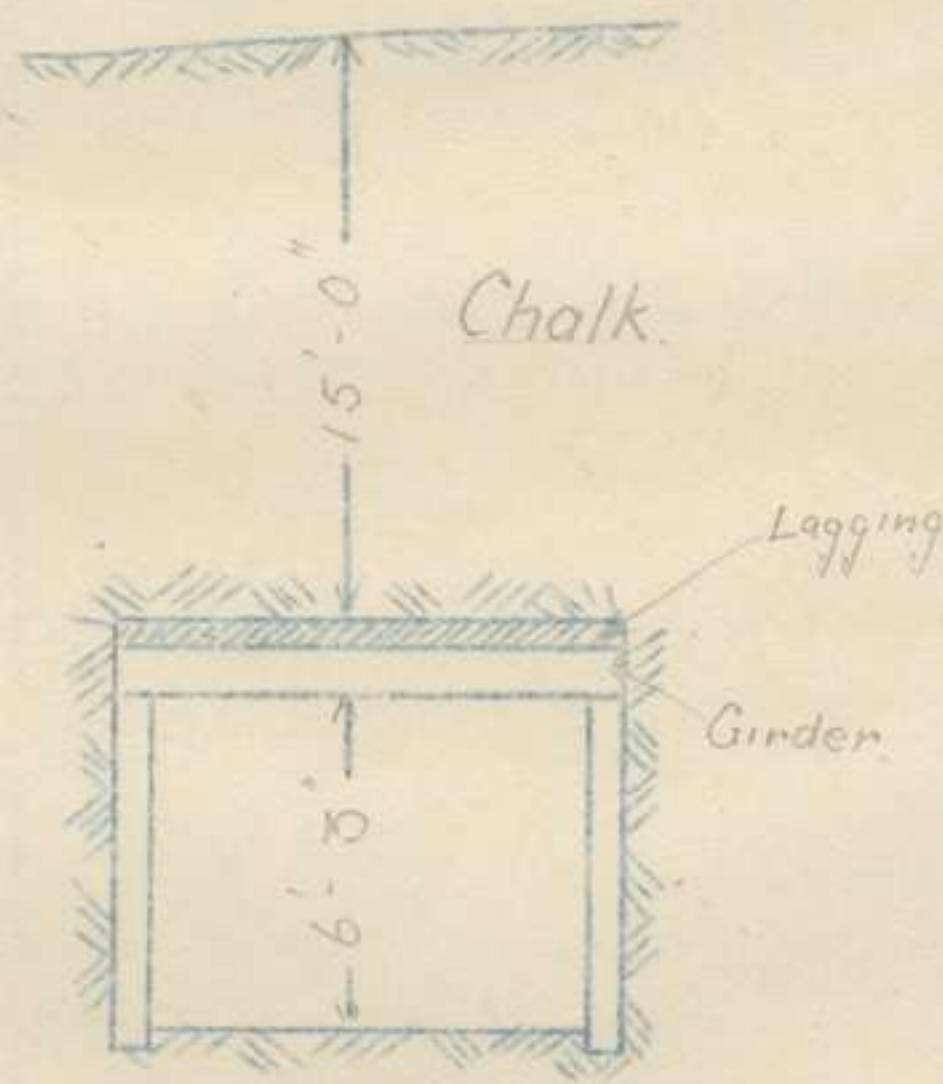
Sketch "N"



3<sup>rd</sup> Australian Tunnelling Coy.

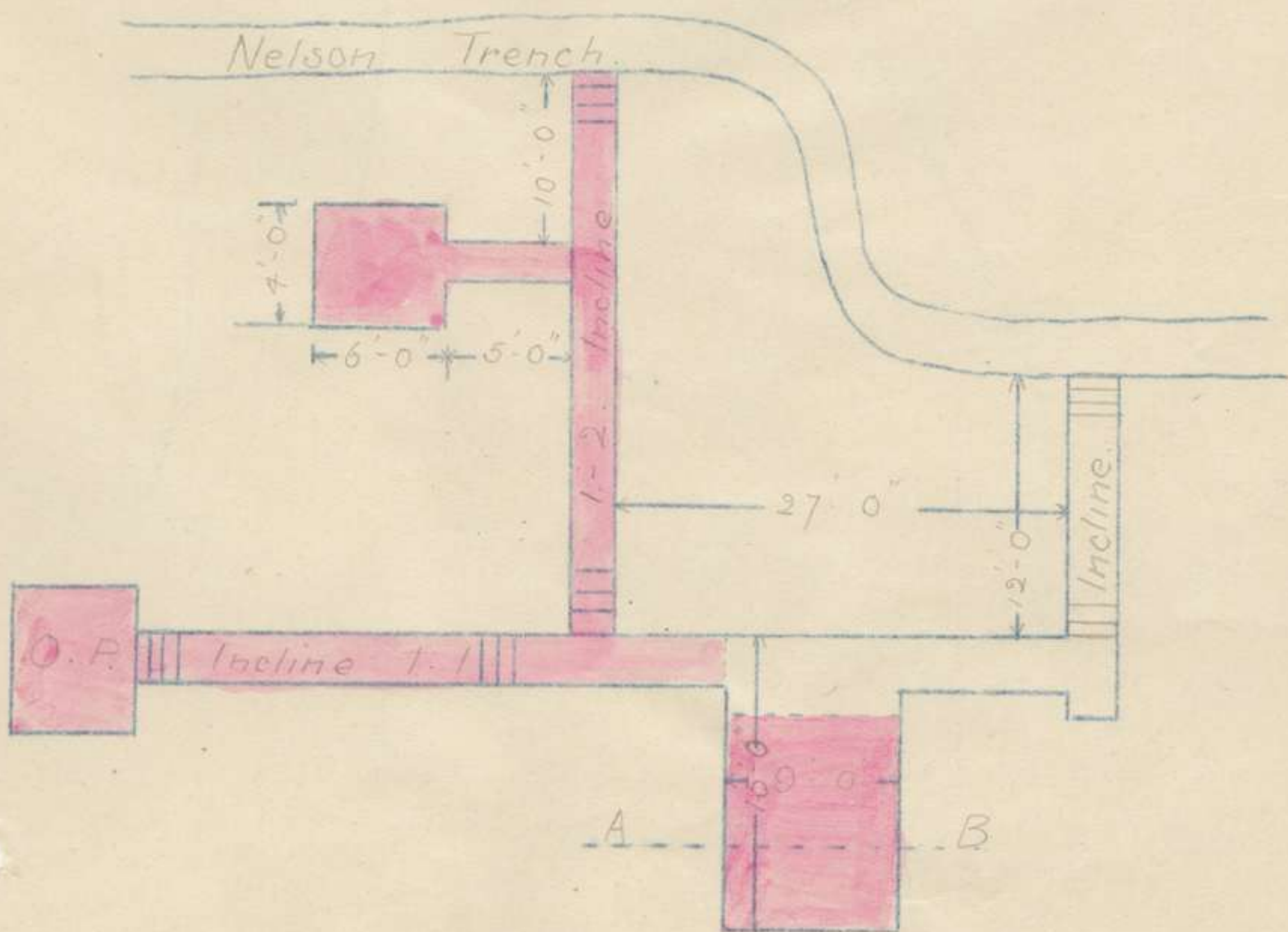
Nelson O.P. & Dug-out. Sheet 44<sup>A</sup>. Ref: H32.c 45-05.

Cover: 15'-0"



Sketch "P"

Section A-B

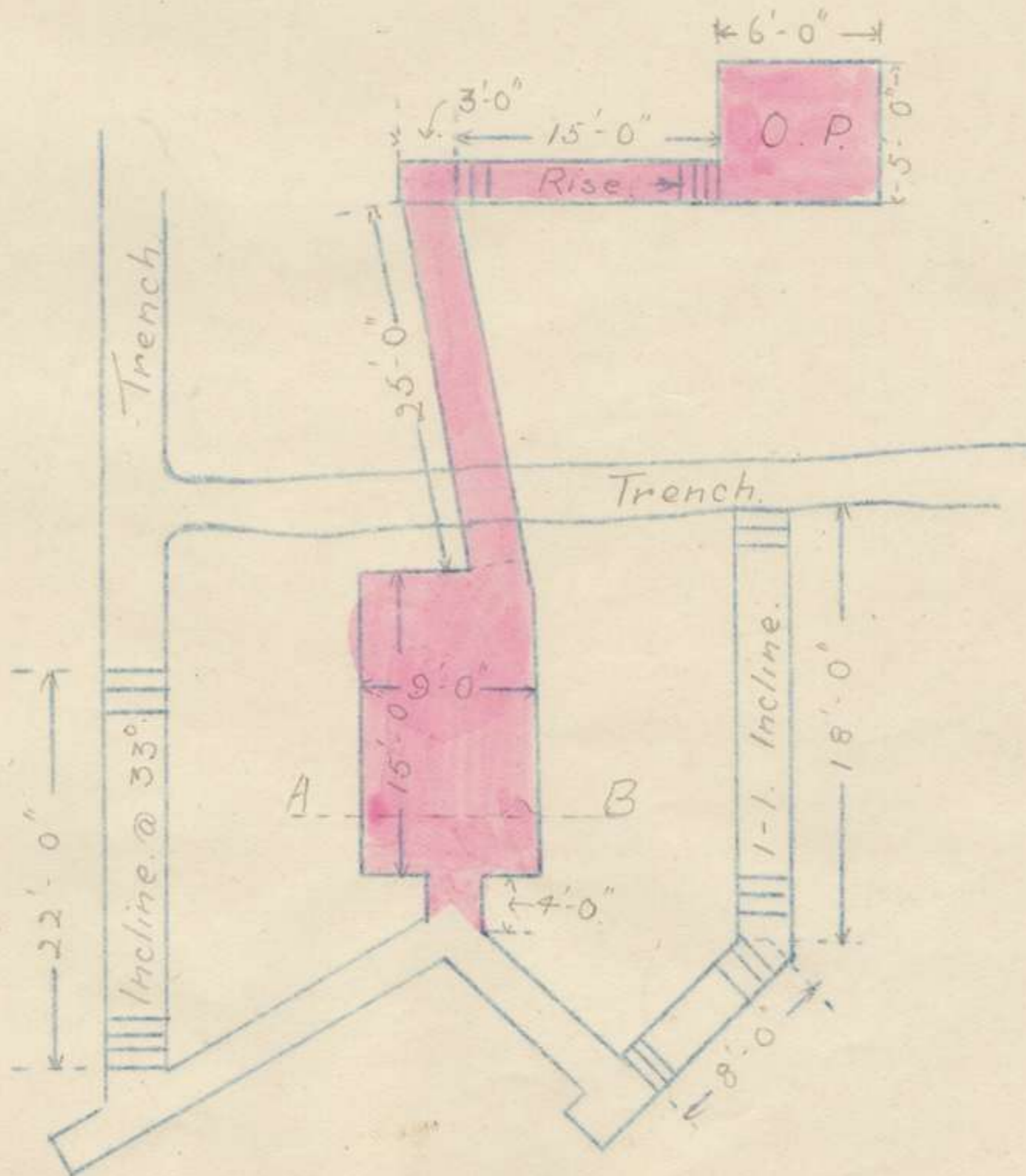
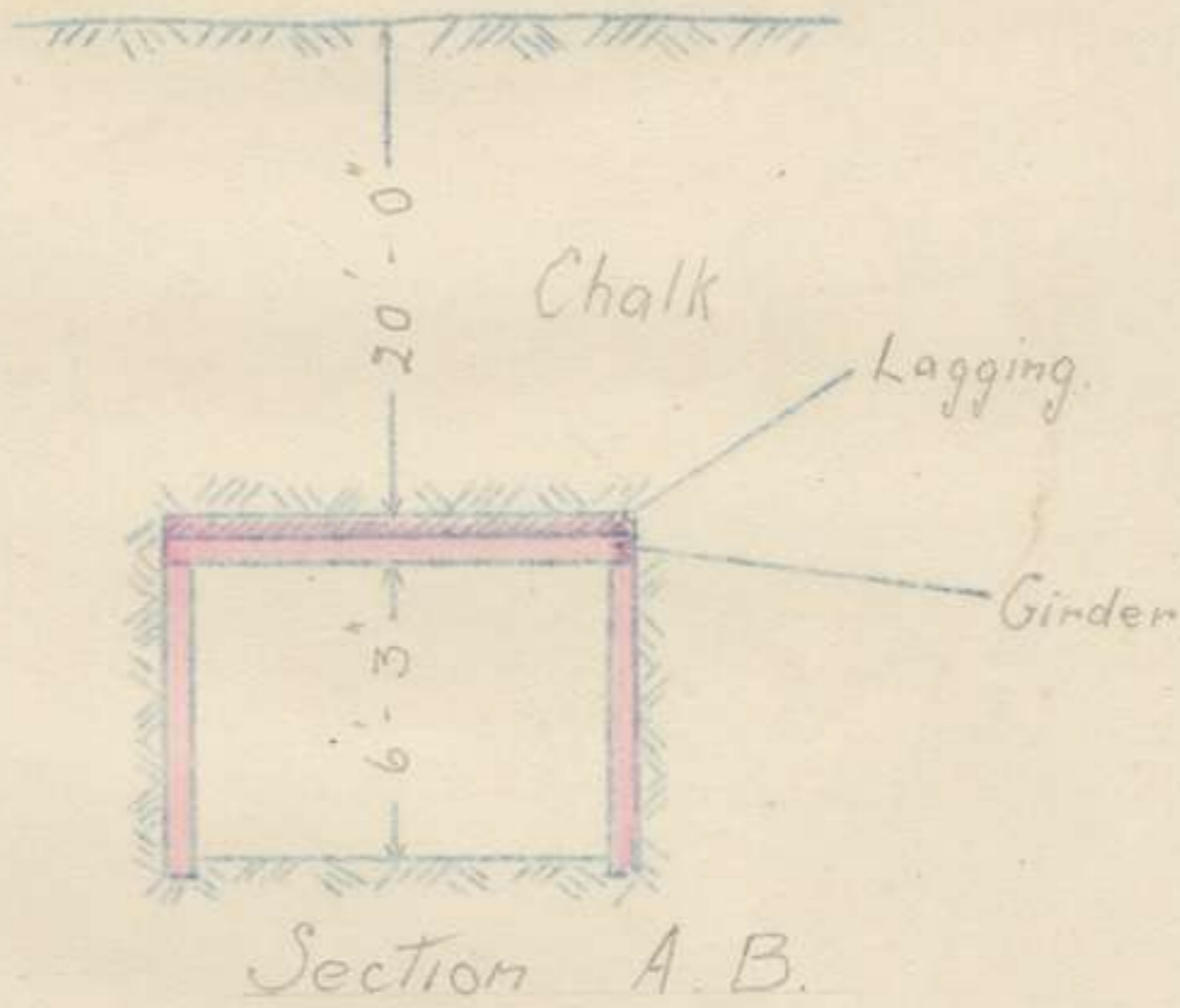


### 3<sup>rd</sup> Australian Tunnelling Coy.

Nuns Alley. O.P. + Dug-out. Sheet 4A<sup>A</sup>. Ref. N2a. 30-80.

Cover: 20'-0"

Sketch "Q"



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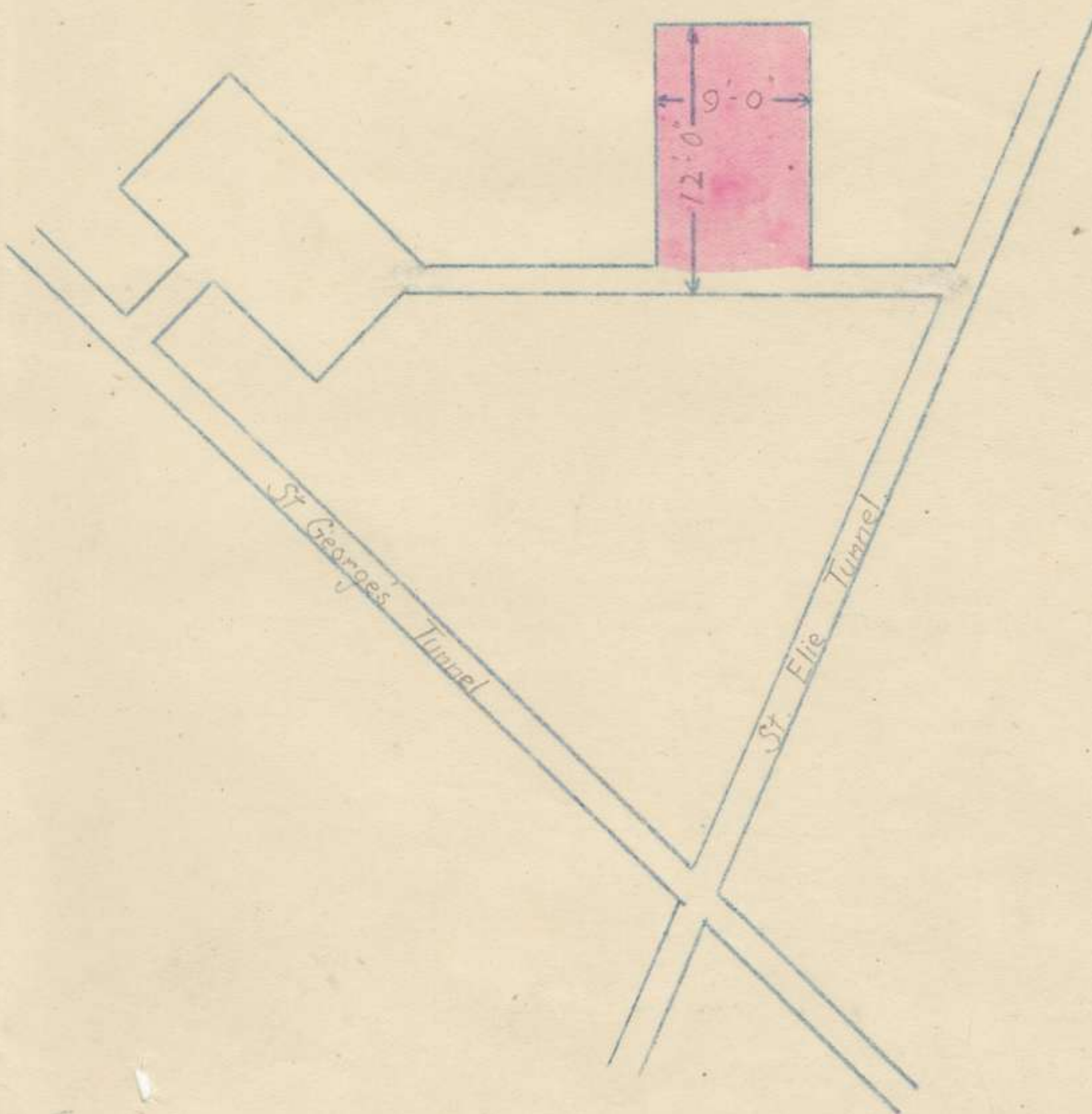
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APPENDIX

3 Australian Tunnelling Coy.

Dug-out off St. Elie Tunnel Sheet. 44<sup>A</sup> Ref: G18a.70-89.  
Power Plant.

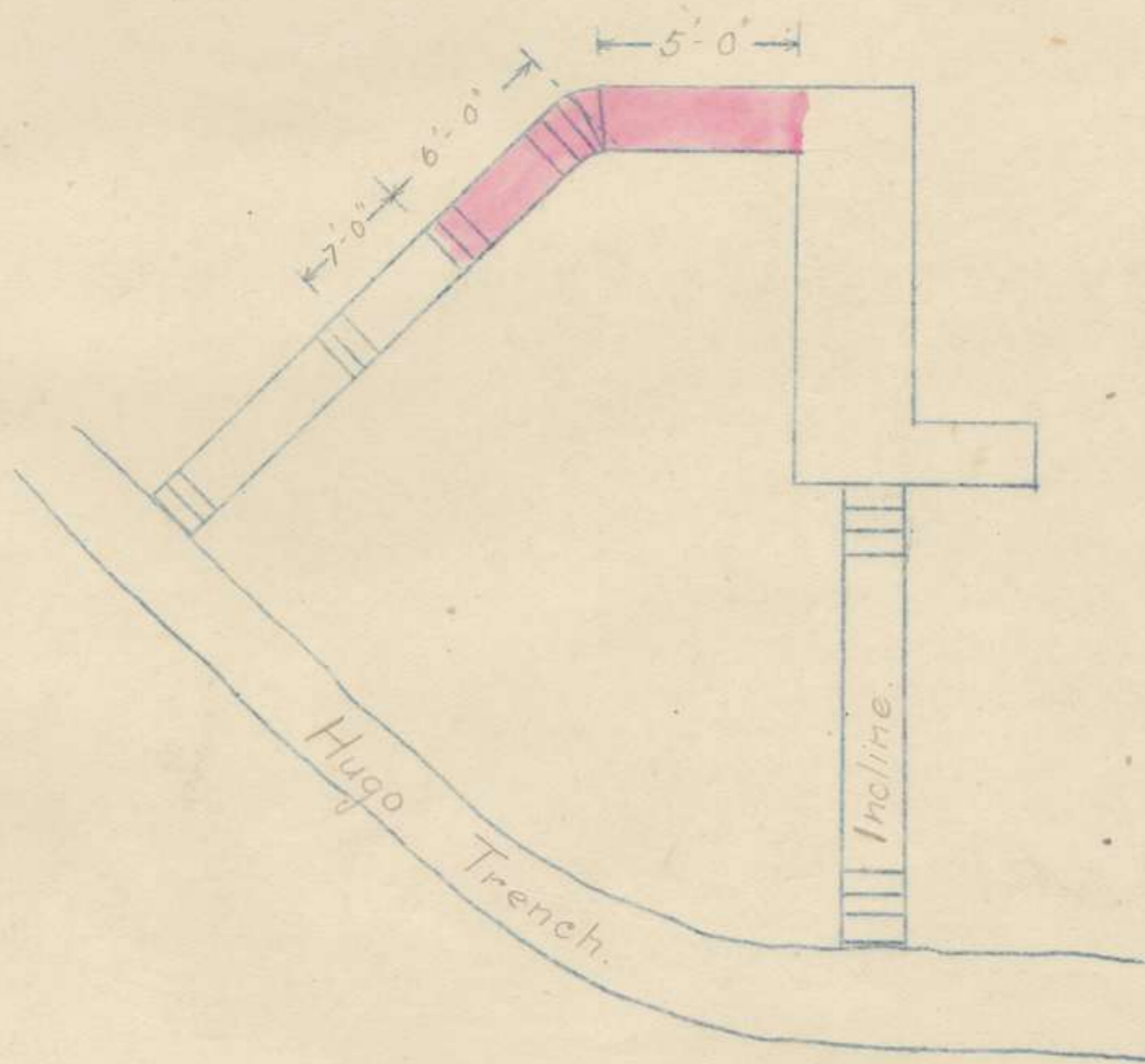
Sketch "R."



3<sup>rd</sup> Australian Tunn<sup>g</sup> Coy.

Coy H. Q<sup>trs</sup> Dug-out. Hugo Trench Sheet 44<sup>A</sup> Ref. H32c 80-80.

Sketch "S"



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APPENDIX

3<sup>rd</sup> Australian Tunnelling Coy.

Dug-out. Humbug Alley. Sheet 44<sup>UA</sup>. Ref: H31b. 50.50.

Cover. 16'-0".

Sketch "T".

