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AC/TN/71/CE.

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10000/148/1547

PRIORITIES
JUL. - OCT. 1945

*Priority*A.C.
TN. S.C.
MINUTE-SHEET

SECRET

file 71

FROM	TO	DATE	REMARKS
D. Div.	Rail Div	11 Apr	Reference attached, according to A.F.H.Q. A.G. 323/061 GDS-0 of 3 Apr "Occupation of N.E. Italy", para 11, the priority of railway repair is:
	First Priority:		Prato - Bologna Single line Faenza - Bologna Faenza - Ferrara
	Second Priority:		Bologna - Verona - Brenner Bologna - Parma Double line Faenza - Bologna
	Third Priority		Parma - Alessandria - Turin Easiest route to Milan Genoa Alessandria.
			Please discuss with Col. Ratter <i>Mr Thomas Col.</i>

SECRET.

Subject: Railway reconstruction - Northern Italy.

Military Railway Service,

C.M.J.
Tel. Firebox 44.
Outside line 845256.
Tn. 4/95.
5 April 45.

To : R.C.E. 1.
I.R.C.E. 4.
R.C.E. 1212.
R.C.E. (S.A.E.C).
O.C. 187 M.E. (Tn) Coy. M.E.
O.C. 2 Rly Tele. Coy. R.Sigs.
O.C. 3 Rly Tele. Coy. R.Sigs.
O.C. 40 Rly Tele. Coy. R.Sigs.
Major Stull, M.R.S. (4 copies).

1. TACTICAL SITUATION.

It is expected that at any time within the next few weeks, large areas, or the whole, of Northern Italy will fall into Allied hands, either by

- (a) the total surrender of the enemy.
- (b) Local surrender of the enemy.
- (c) steady advance against a retreating enemy.

Any forecast of the trend of events at this time, is conjectural. It is necessary however to have a plan for Railway construction which can be put into immediate effect, to cover the early stages following the occupation of the territory.

2. OBJECT.

The final object of Railway reconstruction in Northern Italy is as follows:-

To provide railways by the quickest possible means

- (a) serving the 5 Army on the axis BOLOGNA - VERONA - BRESCIA - INNSBRUCK
- (b) serving the 8 Army on the axis BOLOGNA - VENEZIA - TRIESTE - TARVISIO - VIENNA.
- (c) providing rail access to the North West to feed the heavily populated areas from the Port of GENOA and through BOLOGNA.
- (d) providing rail access to Southern France.

3. FACTORS.

- (a) There are many alternative routes in the highly developed rail system of Northern Italy.
- (b) The main obstacle to development of the whole area will be repairs

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- (d) providing rail access to Southern France.

3. FACTORS.

- (a) There are many alternative routes in the highly developed rail system of Northern Italy.
- (b) The main obstacle to development of the whole area will be repairs to major river crossings, particularly at the River PO. Most of these have already been severely damaged by Allied bombing.
- (c) There is a large potential of military and civilian labour available in Northern Italy.

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Sheet 2.

4. PLAN.(a) Priorities.

In view of the uncertainty of the future, it is only proposed in what follows, to cover the first phase of reconstruction.

Repair work will be carried out as follows:-

Priority I. Line 86, MANTUA - BOLOGNA.

Line 65, CRIZZANA - BOLOGNA.

Priority II. BOLOGNA Station and Yards.

Priority III. Line 69 } BOLOGNA - VERONA.
or 65/202 }

Priority IV. Line 85, BOLOGNA - FERRARA.

Line 65/59, BOLOGNA - ALESSANDRIA.

(r) Allocation of reconstruction works.

In the overall plan, areas of responsibility are allotted to Groups as under:-

R.C.E.1 - after completion : Line 66 to BOLOGNA.

TRIESTE, CARVISIO into AUSTRIA.

R.C.E. (S.A.E.O) - after completion of Line 65 to BOLOGNA.

BOLOGNA and VERONA to VENICE.
VENICE to TRIESTE.

U.S. Group - BOLOGNA - VERONA - BRESCIA to AUSTRIA.

R.C.E. 1212 - BOLOGNA and VERONA to MILAN and TURIN.

GENOA - TURIN to France.

R.C.E.4 (Ind) - will be responsible for maintenance of way in all British operated areas south of BOLOGNA, and for the development of BOLOGNA (including FAVENZA - BOLOGNA doubling), and other important railway centres as decided.

This is intended as a basis for planning only. The greatest flexibility will be essential to meet rapidly changing conditions.

The following will be carried out as soon as the territory referred to is in Allied hands and represents the first phase of reconstruction:-

(1) No.1 Rly Constr & Maint. Group.

Line 86, MANTUA to BOLOGNA.

This involves no departure from the existing plans.

Noted
by J.F. Galt
14/11/45

Priority III. Line 60 } BOLOGNA - VERONA.
at 65/202 }

Priority IV. Line 85, BOLOGNA - FERRARA.
Line 65/59, BOLOGNA - MESSANERA.

(b) Allocation of reconstruction works.

In the overall plan, areas of responsibility are allotted to groups as under:-

R.C.E. 1 - after completion : Line 66 to BOLOGNA.

TRIESTE, TREVISO into AUSTRIA.

R.C.E. (S.A.E.O) - after completion of Line 65 to BOLOGNA.

BOLOGNA and VERONA to VENICE.
VENICE to TRIESTE.

U.S. Group - BOLOGNA - VERONA - BRESCIA to AUSTRIA.

R.C.E. 1212 - BOLOGNA and VERONA to MILAN and TURIN.
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This is intended as a basis for planning only. The greatest flexibility will be essential to meet rapidly changing conditions.

The following will be carried out as soon as the territory referred to is in Allied hands and represents the first phase of reconstruction:-

(4) No. 1 Rly Constr & Maint. Group.

Line 66, BRESCIA to BOLOGNA.

This involves no departure from the existing plans.

(12) South African Group.

Line 65, CRIZZANA to BOLOGNA.
Line 85, BOLOGNA to FERRARA.

In the case of Line 65, this involves no departure from present plans. R.C.E. (S.A.E.O) will carry out reconnaissance on Line 85 BOLOGNA to PO River (FONTELAGO Bridge) and will put in hand repair to the line as a second priority work with any labour available from Line 65. The object of the work will be to establish a railroad as near as possible to VERONA with a minimum of effort. Reconnaissance will continue as opportunity permits through PADOA, VENICE to TRIESTE via lines 85, 53 and 84, and VERONA - PADOA, line 53.

Sheet 3.

Para. 4 (b) contd.

(iii) 4. (Indian) Rly Constr & Maint. Group.

Bologna Station and Yards.

I.E.C.E.4 will carry out reconnaissance, in conjunction with D.D.Tn (Rlys), to determine the rail facilities required to be restored in Bologna. D.D.Tn (Rlys) will determine the layout of the reconstructed yards and the order of priority of work.

I.E.C.E.4 will be prepared to withdraw all units of his Group from their present maintenance works on lines 65, 86 and 87 for work in Bologna, leaving behind a skeleton supervisory staff only.

(iv) U.S. Group.

Line 69 }
or } Bologna to Verona.
Line 65/202 }

Engineer will carry out reconnaissance of the Bologna - Ostiglia - Verona and Bologna - Modena - Mantua - Verona routes, to determine as quickly as possible which is the easiest to repair. He will then put work in hand at once. Reconnaissance will continue, as circumstances permit beyond Verona via Line 69 towards the Brenner Pass.

(v) 1212 Rly Constr & Maint. Group.

Line 65/53, Bologna - Alessandria.

I.E.C.E.1212 will carry out reconnaissance Modena to Alessandria, and put work in hand at once. As soon as opportunities permit, he will reconnoitre in addition all lines in N.W. Italy, with a view to establishing connections by the fastest means between Alessandria and Milan, Turin and Genoa.

(c) As soon as possible after reconnaissance, Groups will submit the following to D.M.R.S.

- (i) Reconnaissance reports.
 - (ii) Lists of material required to complete the works detailed in para. (b) above.
 - (iii) Requests for additional labour, plant or transport required to carry out the work.
- Decisions on the lines to be rebuilt beyond those detailed, will depend on the result of reconnaissance and will be taken by D.M.R.S. after results have been collated.

(d) 137 Mechanical Equipment (M) Company.

as soon as possible.

(iv) U.S. Group.

Line 69 } BOLOGNA to VERONA.
or }
Line 65/202 }

Engineer will carry out reconnaissance of the BOLOGNA - OSTIGLIA - VERONA and BOLOGNA - MODENA - MANTUA - VERONA routes, to determine as quickly as possible which is the easiest to repair. He will then put work in hand at once. Reconnaissance will continue, as circumstances permit beyond VERONA via Line 69 towards the BRESCIA PASS.

(v) Line 1212 ply Constr & Maint. Group.

Line 65/59, BOLOGNA - ALESSANDRIA.

A.C.N. 1212 will carry out reconnaissance MODENA to ALESSANDRIA, and put work in hand at once. As soon as opportunities permit, he will reconnoitre in addition all lines in N.W. Italy, with a view to establishing connections by the fastest means between ALESSANDRIA and MILAN, TURIN and GENOA.

(c) As soon as possible after reconnaissance, Groups will submit the following to D.M.R.C.

(i) Reconnaissance reports.

(ii) Lists of material required to complete the works detailed in Part. (b) above.

(iii) Requests for additional labour, plant or transport required to carry out the works.

Revisions on the lines to be rebuilt beyond those detailed, will depend on the result of reconnaissance and will be taken by D.M.R.C. as soon as results have been collated.

(d) 187 Mechanical Equipment (Tn) Company.

H.Q., 187 M.E. (Tn) Coy. will be set up in BOLOGNA as soon as possible. Platoons will be attached to Groups as under:-

R.C.E. 1212	-	40 M.E. (Tn) Platoon.
R.C.E. 1	-	46 M.E. (Tn) Platoon.
I.R.C.E. 1	-	82 M.E. (Tn) Platoon.

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Sheet 4.

para. 4 (Contd).(e) Communications.

Signal and Telegraph Companies will be allotted to areas corresponding to those of the I.O. & M Groups, for purposes of reconnaissance and reconstruction. Provisional allocation is as under:-

Area of R.O.E.1
 R.O.E. (S.A.E.O) (beyond BOLOGNA)
 (line 65 GRIZZANA - BOLOGNA)
 2 Rly Telegraph Coy.
 40 Rly Tele. Coy. SACS.
 3 Rly Telegraph Coy.
 U.S. Signal sections.
 3 Rly Telegraph Coy.
 U.S. Group.
 R.O.E.1212

A Tt. Signal office equipped with teletype will be set up by 3 Railway Telegraph Coy. at BOLOGNA at the earliest opportunity.

(f) Local Resources.

(i) Group Commanders will exploit to the full all I.S.R., civilian and military repair resources found in their areas.

(ii) I.S.R. Compartmenti will be instructed to put in hand repairs to achieve the final object set out in para. 2 as soon as they can be contacted, and before units are necessarily working in their area.

Compartmenti, for Engineering purposes, are allotted as follows:-

R.O.E.1	TRIESTE
R.O.E. (S.A.E.O)	VENICE
R.O.E.4	BOLOGNA
R.O.E.1212	GENOA
	MILAN
	TURIN

The U.S. Army axis (BOLOGNA - VERONA and BRESCIA) falls in the BOLOGNA and VENICE Compartmenti, and each will be contacted by U.S. Group as necessary.

(g) Stores Supply.

In the first phases, stores will be supplied as under:-

R.O.E. (S.A.E.O)	} ex 331 Tn.S.D. to railhead at GRIZZANA.
U.S. Group	

U.S. Group } ex 330 Tn.S.D. to railhead at TREVISO.

U.S. Signal sections.

3 Rly telegraph Coy.

4 Tn. Signal office equipped with reletype will be set up by
5 Railway telegraph Coy. at BOLOGNA at the earliest opportunity.

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Compartimenti, for engineering purposes, are allotted as follows:-

R.C.E.1	TRIESTE
R.C.E.(3.A.E.C)	VENICE
R.C.E.4	BOLOGNA
R.C.E.1212	GENOA
	MILAN
	TURIN

The U.S. Army ex's (BOLOGNA - VARENA and BREMER) falls in the BOLOGNA and VENICE Compartimenti, and each will be contacted by U.S. Group as necessary.

(g) Stores Supply.

In the first phases, stores will be supplied as under:-

R.C.E.(3.A.E.C)	}	ex 331 Tn.S.D. to railhead at GRIZZADA.
U.S. Group		
R.C.E.1	}	ex 330 Tn.S.D. to railhead at TAVIA.
I.R.C.E.4.		
R.C.E.1212.		

As soon as rail reaches BOLOGNA, a stores depot will be set up to supply all groups. Further depots will be established later at GENOA and TRIESTE.

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(J. Ratter) Colonel,
for Brigadier,
Director, Military Railway Service.

TOP SECRET

North West Italy Plan. (Rail)

The Priorities laid down by MRS are as follow:-

1. Bologna-Piacenza -Alessandria. *Line 65 5 5 9*
2. Alessandria-Genoa. *Line 50 5 10*
3. Alessandria-Turin. *Line 50*
4. The easiest connection to Milan. *Line 50 5 10*

These are shewn in red on the diagram/

The lines suggested for investigation and repair by ISR under auspices of A.C. Tn. are:-

1. Modane-Turin. Line 50

This is only of interest if stockpiling in France is contemplated. Details of the bridges and tunnels in this section are given in Appendix "A".

2. Savona-Bastia-Turin. Line 110

This line is only of interest if it is intended to develop the port of Savona. Details of the bridges, etc, are given in the following appendices:-

- Appendix B. Savona -S. Giuseppe. Line 110.
- Appendix C. S.Giuseppe-Carmagnola, Line 110.

An alternative is by line 113 from S. Giuseppe to Acqui, (details of bridges, etc, at Appendix "E"), thence by line 113 to Alessandria. Line 113 from Acqui to Alessandria may possibly be repaired by MRS, should the line most suitable for repair between Alessandria and Genoa prove to be that passing through Acqui and Ovada. Details of Bridges, etc, at Appendix "F".

3. Ventimiglia-Cuneo-Turin.

The importance of this line again depends on the use of Ventimiglia or beaches in the neighbourhood for the landing of supplies. Details of bridges etc on Line 52 from Ventimiglia to Cuneo are given in Appendix "G"

From Cuneo there are two possible routes. Line 52 from Cuneo to Carmagnola, details of bridges at appendix "H", from Carmagnola to Torfarello, details of bridges etc in appendix "D". Torfarello-Turin, line 50, which will be supervised by MRS, details of Bridges, etc, at appendix "J"

4. Turin-Milan. Line 53.

This line would appear to be important as being a direct connection between the two main cities, and also on account of the number of lines which branch to the North. Details of bridges, etc, are given at Appendix "K".

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5.

Milan-Brescia Line 53.

This line is considered important as it is one of the main routes to the East and its repair will reduce the road haulage in that direction. Details of Bridges, etc, are at Appendix "I"

6.

Genoa-Leghorn. Line 50.

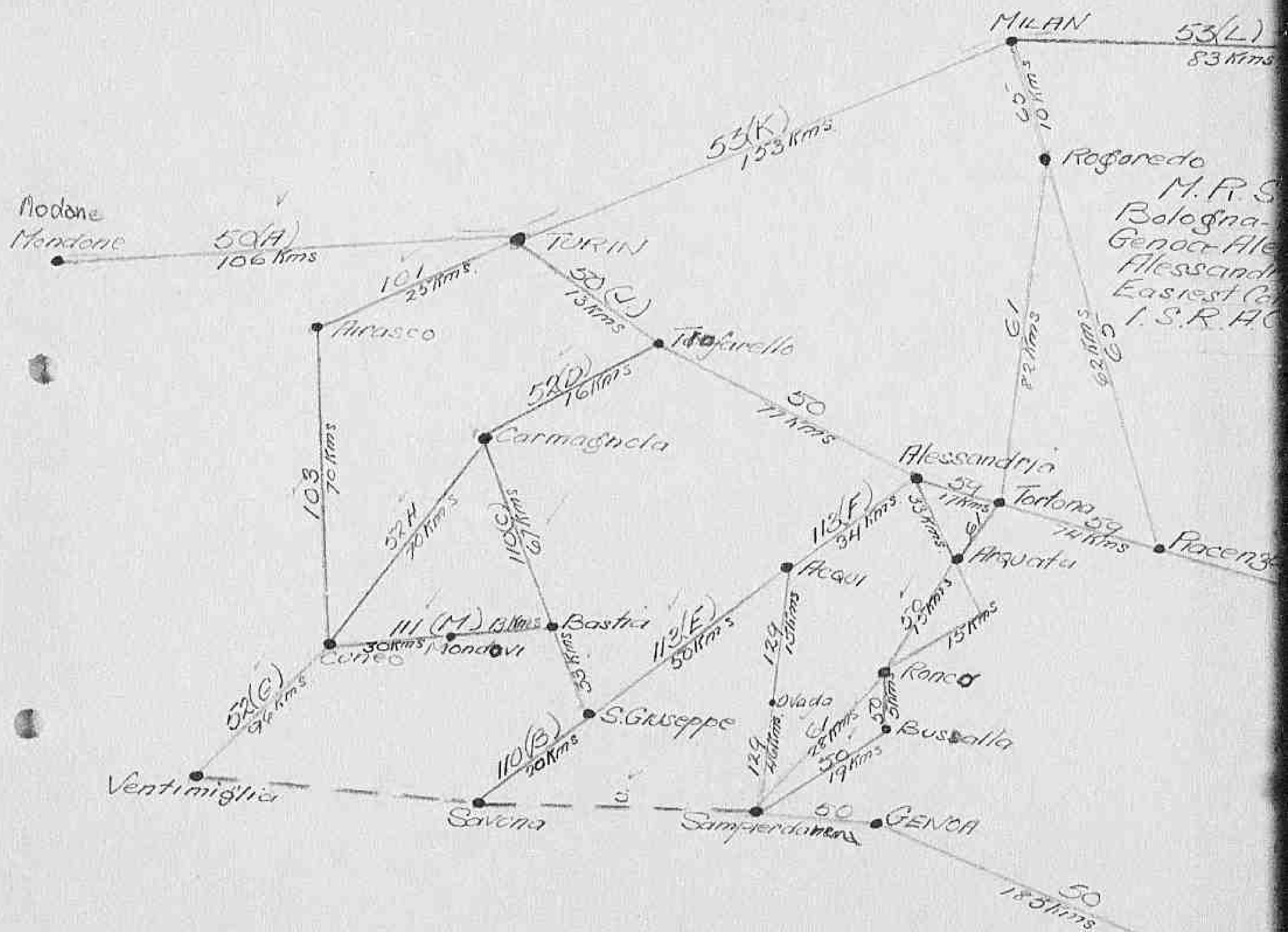
This line is important as forming another link between the port of Genoa and the North East of Italy, via Viareggio or Pisa, and Bologna. This line, if not badly damaged may become a M. R. S commitment. It is, however, anticipated that the line, due to its vulnerable nature, will be severely damaged.

From a study of the attached appendices, it is clear that the lines which so far as major bridges and tunnels are concerned are least likely to be severely damaged are those between Turin-Torfunello-Carmagnola-Cuneo-Bastia, as on the whole distance of 142 kilometres, there are only 31 works of any importance. The importance of this line rests on foodstuffs being landed at Savona, or Imperia, or on the beaches between Savona and Ventimiglia. On this stretch of coast there are roads leading to the Bastia-Cuneo section from Ventimiglia to Cuneo, Imperia to Mondavi, and Savona to Mondavi. Secondary roads are from Albenga to Pieve or Garassio, Borga Marina or Borghetto to Bagnasco. It is possible that these roads may be easily reparable, and a return journey from the coast to either Cuneo or Mondavi should be possible in 48 hours. From Imperia there is no ~~road~~ rail connection to the interior except by the coast line to Savona and thence inland. The railway from Savona inland (line 110), if damaged, will probably take some time to repair, as there are several very high viaducts.

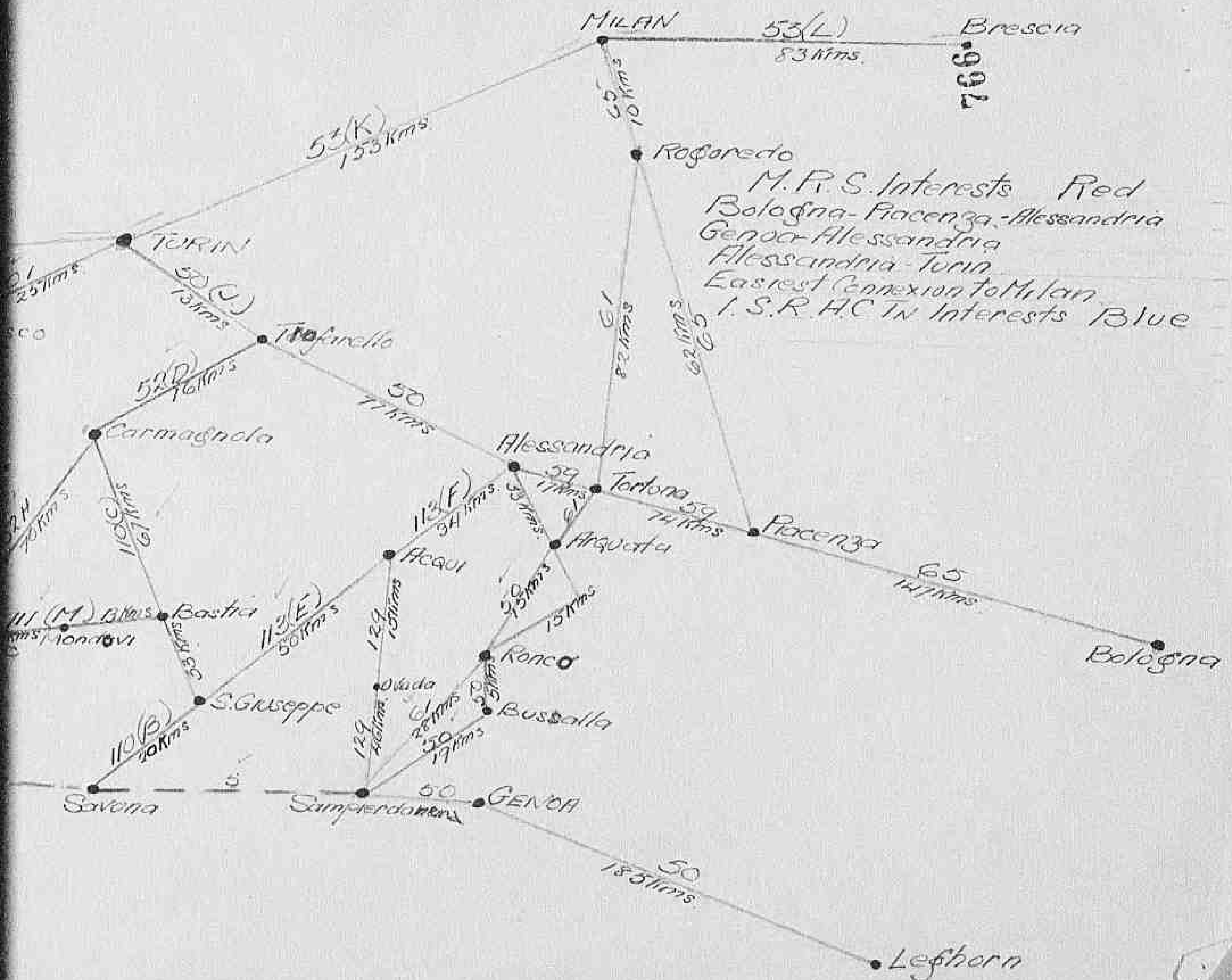
After Turin is reached, the line Turin-Milan should not cause undue difficulty, unless the steel bridges are badly damaged, and from Milan to Brescia should not cause much difficulty once the large viaduct is passed. The line from Ventimiglia to Cuneo (line 52) is very vulnerable and will probably be severely damaged.

It would appear that if the port of Genoa is not available, beach landings, if feasible, and road transport either to Cuneo or Mondavi would be the best solution in the initial stages.

S. H. Lee 767



TOP SECRET.



MODANE-TURIN
LINE 50

PRINCIPAL BRIDGES & TUNNELS.

=====

Appendix A

N°	Kilom.	Description of work	Remarks
1	33.387	4 Brick arches of 10. m	
2	41.596	2 Brick arches of 4 m	
3	41.772	2 Brick arches of 10 m	
4	44.910	3 Brick arches of 15.53 Mts.	
5	46.247	Colmosso tunnel 85 mts. long	
6	46.406	3 Brick arches of 8.00 Mts.	
7	46.769	6 Brick arches of 8.00 Mts.	
8	48.423	Arch 11 Mts. span	
9	48.515	Martinetto tunnel 79 Mts.	
10	49.160	Meana tunnel 1.100 Mts.	
11	50.356	Brick arch 5.00 Mts.	
12	50.720	Cantalup tunnel 154 Mts.	
13	51.083	Armaudera tunnel 464 Mts.	
14	51.622	Viaduct 5 arches of 12 Mts (15 Mts)	
15	52.202	Ponte Alto tunnel 124 Mts.	
16	52.680	Tunnel 38 Mts.	
17	53.061	Tunnel Grosse Pietre 77 Mts.	
18	53.288	Morelli Tunnel 146 Mts.	
19	53.841	Viaduct 12 arches of 8.25 Mts. (15Mts)	
20	53.988	Tunnel 43 Mts.	
21	54.062	Tunnel 63 Mts.	
22	54.206	3 Brick arches one of 12Mts& 2 8.25M.	
23	54.383	Tunnel Tagliata 138 Mts.	
24	54.755	3 Arches one 30 Mts & 2 of 10 Mts.	
25	54.930	Balne Tunnel 538 Mts.	
26	55.588	Brick arch 6.00 Mts.	
27	56.022	Brick arch 6.00 Mts.	
28	57.414	Brick arch 6.00 Mts.	
29	58.369	Steel bridge 27.00 Mts.	
30	58.564	Tunnel Rumiano 146 Mts.	
31	58.722	Brick arch 10.00 Mts.	
32	58.729	Tunnel Comba Scrivia 150Mts.	
33	58.916	Steel Bridge 56.35 Mts.	
34	59.758	Brick arch 15.00	
35	59.839	Brick arch 15.00	
36	59.854	Peyrone tunnel 466 Mts.	
37	60.356	15 M arch	
38	60.350	Combetta tunnel 154 Mts.	
39	60.529	Brick arch 15.00	
40	60.537	Grancomba tunnel	
41	60.695	30 Metre arch	

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7	46.769	6 Brick arches of 8.00 Mts.
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40	60.537	Grancomba tunnel
41	60.695	30 Metre arch
42	60.712	Escilles tunnel 1765 Mts.
43	62.571	3 arches of 10 Mts.
44	62.634	Aquila tunnel 139 Mts.
45	62.850	4 Arches of 15 Mts.
46	63.294	Quaglie Tunnel 129 Mts.
47	63.813	3 Arches of 20 Mts.
48	64.137	Arch of 8 Mts.
49	64.176	Serra della Voute Tunnel 1093Mts.
50	65.309	Steel bridge 30.83 Mts

Appendix A

- 2 -

No	Kilom.	Description of work	Remarks
51	67.465	Ceronda tunnel 80 Mts	
52	68.341	15 Arches of 10 metres	
53	70.419	Port Ventoux tunnel 77 Mts	
54	70.585	Steel bridge 48.00 Mts	
55	72.480	Steel bridge 15.00 Mts	
56	74.245	Steel bridge 6.00 Mts	
57	75.680	Steel bridge 18.00 Mts	
58	76.578	Steel bridge 6.00 Mts	
59	77.313	Steel bridge 2.00 Mts	
60	78.081	Steel bridge 3.50 Mts	
61	80.875	Royeres tunnel 443	
62	82.328	Arch 18.21 metres	
63	82.797	Rocca Tagliata tunnel	
64	83.622	3 Arches of 10 metres	
65	84.425	Del Freyus tunnel 6790 Mts	

TUNNELS 27

Steel bridges 10.00 Mts over 7
Steel bridges under 10.00 3
Brick arches bridges 28
total spans 84

On this route there are at least 65 vulnerable places, but there are very few steel bridges and although the Brick viaducts in some cases are very high 15 metres they are capable of repair from local resources i.e. cement stone and Brick.

60	78.081	Steel bridge 3.30 Mts
61	80.875	Royeres tunnel 443
62	82.328	Arch 18.21 metres
63	82.797	Rocca Tagliata tunnel
64	83.622	3 Arches of 10 metres
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TUNNELS 27

Steel bridges	10.00 Mts over	7
Steel bridges under	10.00	3
Brick arches bridges	28	.
total spans		84

On this route there are at least 65 vulnerable places, but there are very few steel bridges and although the Brick viaducts in some cases are very high 15 metres they are capable of repair from local resources i.e. cement stone and Brick.

LINE SAVONA-ALESSANDRIA
ROUTE 110 TO S. GIUSEPPE THEN 10

LIST OF PRINCIPAL BRIDGES TUNNELS.

No	Kilom.	Description of work	Remarks
1	1.240	Underbridge 9 m	
2	1.385	Viaduct, 7 arches, each 11Mts	
3	1.485	Viaduct, 2 arches, each 11Mts	
4	1.659	Tunnel 365 Mts	
5	2.383	Brick arch 17 m	
6	2.679	Coletto Tunnel 115,35 m	
7	2.975	Delle Rive Tunnel 98 m	
8	3.090	Della Rocca tunnel 107Mts	
9	3.223	Brick bridge, 2 arches, each 11m span	
10	3.391	Pietraguza tunnel, 177 m	
11	3.818	Fia Tunnel 162 m	
12	4.181	Brick arch 14 Mts	
13	4.869	Chiaia tunnel 44,25 Mts	
14	5.984	Brick arch 17 m	
15	6.402	Brick arch 17 Mts	
16	6.702	Santuario tunnel 87,95 Mts	
17	6.868	Chiesetta tunnel 52,90 Mts	
18	6.005	Brick viaduct, each of 11 Mts	
19	6.245	Bricchetto tunnel, 143,90 Mts	
20	6.523	Brick bridge, 3 arches, each 12m span	
21	6.953	Cinavalle tunnel, 167,65 m	
22	7.438	Brick bridge 10 Mts	
23	8.127	Steel bridge, 5 spans, each 30.00 m	
24	8.238	Chiappa tunnel 92,10 m	
25	8.401	Brick bridge, 4 arches, the end ones 11Mts, the central ones 18Mts	
26	8.631	Rollanda tunnel, 170 m	
27	8.956	Brick bridge, 3 Arches, the end ones 14Mts, central one 18 Mts	
28	9.015	Isola tunnel, 207 m	
29	9.407	Brick bridge, 5 arches, each 18.00m span	
30	9.714	Capanna tunnel, 81.50 Mts	
31	9.948	Steel bridge, 5 spans, each one 30 Mts	
32	10.222	Muraglione tunnel, 63,65 Mts	
33	10.399	Cervetto tunnel 50,65 m	
34	10.561	Brick bridge, 6 Arches, the end ones 14Mts, the central ones 18Mts	
35	10.667	Ciliega tunnel 55,10 Mts	
36	10.863	Brick bridge, 3 Arches, the end ones 14Mts, the central ones 18Mts	

763

7	2.975	Delle Rive tunnel 90 m
8	3.090	Della Rocca tunnel 107 Mts
9	3.223	Brick bridge, 2 arches, each 11m span
10	3.391	Pietraguza tunnel, 177 m
11	3.818	Fia Tunnel 162 m
12	4.181	Brick arch 14 Mts
13	4.869	Ghiaia tunnel 44,25 Mts
14	4.984	Brick arch 17 m
15	5.402	Brick arch 17 Mts
16	5.702	Santuario tunnel 87,95 Mts
17	5.868	Chiesetta tunnel 52,90 Mts
18	6.005	Brick viaduct, each of 11 Mts
19	6.245	Bricchetto tunnel, 143,90 Mts
20	6.523	Brick bridge, 3 arches, each 12m span
21	6.953	Cimavalle tunnel, 167,65 m
22	7.438	Brick bridge 10 Mts
23	8.127	Steel bridge, 5 spans, each 30.00 m
24	8.238	Chiappa tunnel 92,10 m
25	8.401	Brick bridge, 4 arches, the end ones 11Mts, the central ones 18Mts
26	8.631	Rollanda tunnel, 170 m
27	8.956	Brick bridge, 3 Arches, the end ones 14Mts, central one 18 Mts
28	9.015	Isola tunnel, 207 m
29	9.407	Brick bridge, 5 arches, each 18.00m span
30	9.714	Capanna tunnel, 81.50 Mts
31	9.948	Steel bridge, 5 spans, each one 30 Mts
32	10.222	Muraglione tunnel, 63,65 Mts
33	10.399	Cervetto tunnel 50,65 m
34	10.561	Brick bridge, 6 Arches, the end ones 14Mts, the central ones 18Mts
35	10.667	Cilliega tunnel 55,10 Mts
36	10.863	Brick bridge, 3 Arches, the end ones 14Mts, the central ones 18Mts
37	10.949	Cavaglione tunnel 109,45 Mts
38	11.100	Brick bridge, 2 arches, each one 14.00Mts
39	11.225	Alberto Bruciato tunnel 39,15 Mts
40	11.511	Brick bridge 12 Mts
41	11.623	Cagna tunnel 70,37 Mts
42	11.796	Brick bridge, 3 arches, the end ones 14 Mts, the central one 18Mts
43	11.977	Brick bridge 10.00 Mts
44	12.002	Tunnel 56,90 Mts
45	12.504	Brick bridge 10.00 Mts
46	13.496	Tunnel 2309 Mts

No	Kilom.	Description of work	Remarks
47	17.003	Brick bridge 20.00 Mts.	
48	17.030	Ferrania tunnel 125.45 Mts.	
49	19.653	Brick bridge, 2 Arches, each 15 Mts.	
50	19.705	Steel subway, 7 Mts.	
24	TUNNELS		
23	BRICK BRIDGES		
3	STEEL BRIDGES		

APPENDIX C

S. GIUSEPPE - CARMAGNOLA
LINE 110

No	Kilom.	Description of work	Remarks
1	22.931	Brick bridge 10.00 Mts	
2	24.610	Tunnel 503.55 Mts.	
3	26.326	Subway 7.80 Mts.	
4	27.077	Subway 10.10 Mts.	
5	27.650	Subway 10.15 Mts.	
6	29.910	Tunnel 78.60 Mts.	
7	30.176	Brick bridge, 3 Arches, end ones of 15 Mts., center one of 23 Mts.	
8	31.054	Brick viaduct, 3 arches, each 17 Mts.	
9	32.049	Viaduct, 7 arches, span 17.00 Mts.	
10	33.025	Tunnel 4246.90 Mts.	
11	41.857	Tunnel 273.60 Mts.	
12	41.995	Bridge brick viaduct, 5 arches, each 17.00 Mts. span	
13	44.143	Viaduct brick bridge, 3 arches, each 17.00 Mts. span	
14	44.477	Brick viaduct, 3 arches, each 11.00 Mts. span	
15	44.627	Viaduct brick bridge, 4 arches, each 11.20 Mts. span.	
16	44.673	Tunnel 45.95 Mts.	
17	46.291	Brick viaduct, 9 arches, each 6.00 Mts span	
18	47.859	Bridge, 3 arches, each 14.90 Mts. span	
19	48.447	Brick bridge, 3 arches, each 15.85 Mts. span	
20	49.459	Tunnel 337.62 Mts.	
21	52.419	Pianfino tunnel 194.90 Mts.	
22	52.897	Brick bridge, 3 arches, each 20.00 Mts. span	
23	53.265	Overpass 7.50 Mts.	
24	53.849	Brick bridge, 3 arches, each 20.00 Mts.	
25	55.763	Brick bridge, 2 arches, each 6.00 Mts. span	
26	55.137	Overpass 7.50 Mts.	
27	57.529	Brick bridge, 3 arches, each 20.00 Mts. span	
28	57.981	Tunnel 395.27 Mts.	
29	58.443	Brick bridge, 3 arches, each 20.00 Mts. span	
30	60.627	Culvert 6 Mts.	
31	60.765	Brick bridge, 2 arches, each 14.90	

761

7	30.176	Brick bridge, 3 Arches, end ones of 15 Mts., center one of 23 Mts.
8	31.054	Brick viaduct, 3 arches, each 17 Mts.
9	32.049	Viaduct, 7 arches, span 17.00 Mts.
10	33.025	Tunnel 4246.90 Mts.
11	41.867	Tunnel 273.60 Mts.
12	41.995	Bridge brick viaduct, 5 arches, each 17.00 Mts. span
13	44.143	Viaduct brick bridge, 3 arches, each 17.00 Mts. span
14	44.477	Brick viaduct, 3 arches, each 11.00 Mts. span
15	44.627	Viaduct brick bridge, 4 arches, each 11.20 Mts. span.
16	44.673	Tunnel 45.95 Mts.
17	46.291	Brick viaduct, 9 arches, each 6.00 Mts span
18	47.859	Bridge, 3 arches, each 14.90 Mts. span
19	48.447	Brick bridge, 3 arches, each 15.85 Mts. span
20	49.459	Tunnel 337.62 Mts.
21	52.419	Pianfino tunnel 194.90 Mts.
22	52.897	Brick bridge, 3 arches, each 20.00 Mts. span
23	53.265	Overpass 7.50 Mts.
24	53.849	Brick bridge, 3 arches, each 20.00 Mts.
25	55.763	Brick bridge, 2 arches, each 6.00 Mts. span
26	58.137	Overpass 7.50 Mts.
27	57.529	Brick bridge, 3 arches, each 20.00 Mts. span
28	57.981	Tunnel 395.27 Mts.
29	58.443	Brick bridge, 3 arches, each 20.00 Mts. span
30	60.627	Culvert 6 Mts.
31	60.766	Brick bridge, 2 arches, each 14.90 Mts. span
32	61.489	Tunnel 262.71 Mts.
33	62.103	Canale overpass 7.50 Mts.
34	63.959	Brick bridge, 3 arches, each 13.40 Mts. span
35	66.060	Bridge 9.90 Mts.
36	68.393	Brick bridge, 4 arches, each 20.00 Mts. span.

- 2 -

No	Kilom.	Description of work	Remarks
37	69.214	Brick bridge, 5 arches, each 20.00 Mts. span	
38	69.646	Subway 6.00 Mts.	
39	69.795	Brick bridge, 4 arches, each 20.00 Mts span	
40	72.026	Tunnel 274.26 Mts.	
41	74.359	Steel bridge, 2 spans, each 44.35 Mts.	
42	74.767	Steel bridge, 2 spans, each 44.35 Mts.	
43	76.372	Brick bridge, 2 arches, each 20.00 Mts span	
44	77.284	Bridge 6.00 Mts.	
45	81.072	Brick bridge, 5 arches each 20.00 Mts. span	
46	84.473	Trifoglietto Tunnel 480.83 Mts.	
47	88.901	Brick bridge, 6 arches, each 20.00 Mts. span	
48	91.683	Subway 6.00 Mts.	
49	92.567	Roreto tunnel 396.95 Mts.	
50	94.525	Artificial tunnel 72.00 Mts.	
51	105.095	Steel bridge 6.05 Mts.	
52	109.261	Steel bridge, 2 spans, each 14.65 Mts.	
53			

760

43	76.372	Brick bridge, 2 arches, each 20.00 Mts span
44	77.284	Bridge 6.00 Mts.
45	81.072	Brick bridge, 5 arches each 20.00 Mts. span
46	84.473	Trifoglietto Tunnel 480.83 Mts.
47	88.901	Brick bridge, 6 arches, each 20.00 Mts. span
48	91.683	Subway 6.00 Mts.
49	92.567	Roreto tunnel 396.95 Mts.
50	94.625	Artificial tunnel 72.00 Mts.
51	105.095	Steel bridge 6.05 Mts.
52	109.261	Steel bridge, 2 spans, each 14.65 Mts.
53		

APPENDIX D

CARMAGNOLA - TROFARELLO
LINE 52

PRINCIPAL BRIDGES AND TUNNELS

No	Kilom.	Description of work	Remarks
1	7.730	Brick Arch 11.60 Mts.	
2	6.407	Brick Arch 6.60 Mts.	
3	4.936	5 Brick Arches, 2 of 4.00 Mts. and 3 of 9.40 Mts.	
4	3.504	Brick Arch of 8.00 Mts.	
5	1.156	Brick Arch of 7.00 Mts.	

BRICK ARCHES 5

TOTAL ARCHES 9

692

and 3 of 9.40 Mts.
Brick Arch of 8.00 Mts.
Brick Arch of 7.00 Mts.

BRICK ARCHES 5
TOTAL ARCHES 9

3.504
1.156

4
5

APPENDIX E

S. GIUSEPPE TO ACQUI
ROUTE 113

N°	Kilom.	Description of work	Remarks
1	3.078	3 Arches of 15.00 Mts.	
2	6.569	3 Arches of 15.00 Mts.	
3	6.925	3 Arches of 15.00 Mts.	
4	9.586	3 Arches of 16.60 Mts.	
5	10.075	Dejio Tunnel 97 Mts.	
6	10.359	3 Arches of 15.15 Mts.	
7	11.901	Coda Tunnel 150 Mts.	
8	12.101	3 Arches of 15.00 Mts.	
9	12.507	3 Arches of 15.00 Mts.	
10	12.577	Zagaglia Tunnel 214 Mts.	
11	12.817	Brick arch 10.50 Mts.	
12	12.869	Furioso Tunnel 187 Mts.	
13	16.136	3 Arches of 15 Mts.	
14	18.388	Groppini Tunnel 77 Mts.	
15	18.930	2 Arches of 15 Mts.	
16	21.646	Colombi Tunnel 605 Mts.	
17	22.812	Brick arch 9.75 Mts.	
18	24.803	Case Vicine Tunnel 323 Mts.	
19	26.033	Mombaldone Tunnel	
20	27.729	3 Arches of 14.60 Mts.	
21	28.958	Brick arch 9.80 Mts.	
22	31.244	3 Arches of 14.25 Mts.	
23	34.532	Steel bridge 18.70 Mts.	
24	34.605	Ponti tunnel	
25	35.039	Steel bridge 5.00 Mts.	
26	35.050	Steel bridge 5.00 Mts.	
27	38.766	Viaduct of 8 arches, 3 of 20 Mts. and 5 of 9.50 Mts.	
28	42.690	Terzo Tunnel 817 Mts.	
29	43.981	Brick arch 7.00 Mts.	
30	47.367	Viaduct of 13 arches of 850 Mts.	
31	47.643	Steel span of 12 Mts.	

TUNNELS 10
BRICK ARCHES 17
STEEL BRIDGES 4

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6	10.359	3 Arches of 15.15 Mts.
7	11.901	Coda Tunnel 150 Mts.
8	12.101	3 Arches of 15.00 Mts.
9	12.507	3 Arches of 15.00 Mts.
10	12.577	Zagaglia Tunnel 214 Mts.
11	12.817	Brick arch 10.50 Mts.
12	12.869	Furioso Tunnel 187 Mts.
13	16.136	3 Arches of 15 Mts.
14	18.388	Groppini Tunnel 77 Mts.
15	18.930	2 Arches of 15 Mts.
16	21.646	Colombi Tunnel 605 Mts.
17	22.812	Brick arch 9.75 Mts.
18	24.803	Case Vicine Tunnel 323 Mts.
19	26.033	Mombaldone Tunnel
20	27.729	3 Arches of 14.60 Mts.
21	28.968	Brick arch 9.80 Mts.
22	31.244	3 Arches of 14.25 Mts.
23	34.532	Steel bridge 18.70 Mts.
24	34.605	Ponti tunnel
25	35.039	Steel bridge 5.00 Mts.
26	35.050	Steel bridge 5.00 Mts.
27	38.766	Viaduct of 8 arches, 3 of 20 Mts. and 5 of 9.50 Mts.
28	42.690	Terzo Tunnel 817 Mts.
29	43.981	Brick arch 7.00 Mts.
30	47.367	Viaduct of 13 arches of 850 Mts.
31	47.643	Steel span of 12 Mts.

TUNNELS 10
BRICK ARCHES 17
STEEL BRIDGES 4

APPENDIX F

ACQUI TO ALESSANDRIA
ROUTE 113

No	Kilom.	Description of work	Remarks
1	27.628	Brick Arch 6.20 Mts.	
2	17.855	Steel bridge 10.00 Mts.	
3	16.388	Brick Arch 14.80 Mts.	
4	11.511	Brick Arch 12.00 Mts.	
5	0.588	Steel bridge 6.00 Mts.	
6	0.538	Steel bridge 6.00 Mts.	

BRICK ARCHES 3
STEEL SPANS 3

REPAIRS SHOULD BE EASY.

0.538 | Steel bridge 6.00 Mts. |
0.538 | Steel bridge 6.00 Mts. |

BRICK ARCHES 3
STEEL SPANS 3

REPAIRS SHOULD BE EASY.

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APPENDIX G

LINE VENTIMIGLIA-CUNEO (52)

Declassified E.O. 12356 Section 3.3/NND No. 785021

Remarks

Description of work

No Kilom.

1	2.629	Ismardi tunnel 180 Mts.
2	3.764	Maniera tunnel 180 Mts.
3	4.318	4 Arches 6 Metres
4	4.615	4 Cement Arches 16.36 Mts
5	5.814	Serro Soprano tunnel 244 Mts
6	5.832	3 Arches of 5 Mts
7	5.980	Viaduct 2 arches of 8 Mts
8	6.223	Arch of 6 Mts
9	6.486	3 Arches of 8 Mts
10	7.842	Bocche tunnel 861 Mts
11	7.907	3 Arches of 21.00 Mts & 2 of 10Mts
12	8.587	Colombo tunnel 596 Mts
13	8.617	Viaduct 2 arches of 21Mts & 2 of 10Mts
14	9.305	Lamberto tunnel 846 Mts
15	9.577	Viaduct 4 Arches of 14Mts & 2 of 10Mts
16	9.824	Gambetta tunnel 173 Mts
17	9.942	3 Arches of 5 Mts
18	10.148	Pian de Para tunnel 184 Mts
19	10.319	4 Arches of 10 Mts
20	11.106	Para tunnel 746 Mts
21	11.131	Arch of 10 Mts
22	11.343	Avola tunnel 153 Mts
23	11.685	Madonna tunnel 249 Mts
24	12.700	Montigi tunnel 842 Mts
25	12.768	5 Arches of 15 Mts
26	12.956	S. Michele tunnel
27	14.057	Sardinesca tunnel 820 Mts
28	14.703	Farghetto tunnel 419 Mts
29	15.621	Aerie tunnel 813 Mts
30	15.796	4 arches of 10 Mts
31	16.185	Arme tunnel 332 Mts
32	16.241	3 Arches of 10 Mts
33	16.313	Arch of 6 Mts
34	16.961	Fromento tunnel 644 Mts
35	17.274	Commencement French Territory
36	71.140	S. Rocco tunnel 362 Mts
37	71.120	3 Arches of 9 Mts
38	69.730	Torretta tunnel 112 Mts
39	68.950	Arch of 15 Mts
40	68.300	Viaduct 10 arches of 6 Mts
	62.240	Vallera I Tunnel 32 Mts

756

8	6.223	Arch of 6 Mts
9	6.486	3 Arches of 8 Mts
10	7.842	Bocche tunnel 861 Mts
11	7.907	3 Arches of 21.00 Mts & 2 of 10Mts
12	8.587	Colombo tunnel 596 Mts
13	8.617	Viaduct 2 arches of 21Mts & 2 of 10Mts
14	9.505	Lamberto tunnel 846 Mts
15	9.577	Viaduct 4 Arches of 14Mts & 2 of 10Mts
16	9.824	Gambetta tunnel 173 Mts
17	9.942	3 Arches of 5 Mts
18	10.148	Pian de Para tunnel 184 Mts
19	10.319	4 Arches of 10 Mts
20	11.106	Para tunnel 746 Mts
21	11.131	Arch of 10 Mts
22	11.343	Avola tunnel 152 Mts
23	11.685	Madonna tunnel 249 Mts
24	12.700	Montigi tunnel 642 Mts
25	12.766	5 Arches of 15 Mts
26	12.956	S2Michèle tunnel
27	14.057	Sardinesca tunnel 820 Mts
28	14.703	Farghetto tunnel 419 Mts
29	15.621	Aerie tunnel 819 Mts
30	15.796	4 arches of 10 Mts
31	16.185	Arme tunnel 332 Mts
32	16.241	3 Arches of 10 Mts
33	16.313	Arch of 6 Mts
34	16.961	Fromento tunnel 644 Mts
35	17.274	Commencement French Territory
36	71.140	S. Rocco tunnel 362 Mts
37	71.120	3 Arches of 9 Mts
38	69.730	Torretta tunnel 112 Mts
39	68.950	Arch of 15 Mts
40	68.300	Viaduct 10 arches of 6 Mts
41	62.240	Vallera I Tunnel 32 Mts
42	68.166	Viaduct 3 arches of 5 Mts
43	68.100	Vallera II Tunnel 53 Mts
44	68.050	Viaduct 6 arches of 6 Mts
45	67.837	Carnara tunnel 101 Mts
46	67.735	Bridge of 4 arches, one of 48 Mts one of 13 Mts & one of 11 Mts
47	65.822	Berghe tunnel 1833 Mts
48	65.310	Caussagne tunnel 274 Mts
49	65.285	Arch of 30 Mts
50	65.190	Verado tunnel 54 Mts
	64.950	3 arches of 7 Mts.

No	Kilom.	Description of work	Remarks
51	64.720	Peny tunnel 74 Mts	
52	64.373	Scarassouci tunnel 146 Mts	
53	63.820	Malaba tunnel 388 Mts French territory	
54	63.085	Frontera tunnel 742 Mts	
55	62.235	Balma tunnel 336 Mts (End)	
56	62.521	Rvallon tunnel II 91 Mts	
57	62.214	Ravallou tunnel 301 Mts	
58	61.739	Fornau tunnel 475 Mts	
59	61.431	Fornau I tunnel 275 Mts	
60	61.260	Foce tunnel 167 Mts	
61	61.209	Viaduct 5 arches 15.00 Mts	
62	59.853	Porcarezzo tunnel 1249 Mts	
63	59.802	Viaduct 3 arches of 15 Mts	
64	59.755	Arch of 8.50 Mts	
65	59.691	Viaduct 3 Arches of 15 Mts	
66	58.420	Brogna tunnel II 153 Mts	
67	57.695	Viaduct 7 arches of 15 Mts	
68	55.912	Riorio II tunnel 1527 Mts	
69	55.610	Riorio I tunnel 284 Mts	
70	55.509	3 arches of 8.00 Mts	
71	55.053	Leverza tunnel 418 Mts	
72	54.956	Viaduct 3 span of 10 Mts	
73	52.507	Bossegia tunnel	
74	51.814	Colombera tunnel 212 Mts	
75	51.357	Bijorindi tunnel 245 Mts	
76	50.996	Borgonuovo tunnel 200 Mts	
77	50.729	Viaduct 2 arches, 8 of 15 Mts, one of 20 mts and 3 of 12 Mts	
78	49.375	2 arches of 12.00 Mts	
79	47.890	Cagnolina tunnel 1467 Mts	
80	47.662	5 Brick arches	
81	47.305	Gergo tunnel 278 Mts	
82	47.115	Morga tunnel 160 Mts	
83	47.071	2 arches of 8.00 Mts	
84	46.644	Rio Freddo tunnel 376 Mts	
85	46.048	Frera tunnel 498 Mts	
86	46.028	Arch of 5.00 Mts	
87	45.625	Alemonda tunnel	
88	45.225	Mezzora tunnel	
89	45.208	2 arches 6.00 Mts	
90	44.459	Devenzo tunnel	
91	44.442	Arch of 12.00 Mts	
92	44.053	Gageo tunnel 374 Mts	
93	43.987	5 Arches of 15 Mts	

755

60	61.260	Face tunnel 167 Mts
61	61.209	Viaduct 5 arches 15.00 Mts
62	59.853	Porcarezzo tunnel 1249 Mts
63	59.802	Viaduct 3 arches of 15 Mts
64	59.756	Arch of 8.50 Mts
65	59.691	Viaduct 3 Arches of 15 Mts
66	58.420	Brogna tunnel 1153 Mts
67	57.695	Viaduct 7 arches of 15 Mts
68	55.912	Riorio II tunnel 1527 Mts
69	55.610	Riorio I tunnel 284 Mts
70	55.509	3 arches of 8.00 Mts
71	55.053	Leverza tunnel 418 Mts
72	54.956	Viaduct 3 span of 10 Mts
73	52.507	Bossegia tunnel
74	51.814	Colombera tunnel 212 Mts
75	51.357	Bijorindi tunnel 245 Mts
76	50.996	Borgonuovo tunnel 200 Mts
77	50.729	Viaduct 2 arches, 8 of 15 Mts, one of 20 mts and 3 of 12 Mts
78	49.375	2 arches of 12.00 Mts
79	47.890	Cagnolina tunnel 1467 Mts
80	47.632	5 Brick arches
81	47.305	Gergo tunnel 278 Mts
82	47.115	Morga tunnel 160 Mts
83	47.071	2 arches of 8.00 Mts
84	46.644	Rio Freddo tunnel 376 Mts
85	46.048	Frera tunnel 498 Mts
86	46.028	Arxh of 5.00 Mts
87	45.625	Alemonda tunnel
88	45.225	Mezzora tunnel
89	45.206	2 arches 6.00 Mts
90	44.459	Devenzo tunnel
91	44.442	Arch of 12.00 Mts
92	44.053	Gageo tunnel 374 Mts
93	43.987	5 Arches of 15 Mts
94	42.619	Brango tunnel 1272 Mts
95	42.512	Brick arch 12.00 Mts
96	41.971	Brick arch 6.00 Mts
97	41.546	Steel span of 21.00 Mts
98	41.379	Colle tunnel 8098 Mts
99	32.533	Lenone tunnel 423 Mts
100	32.062	Arch of 13 Mts
101	31.440	Viaduct 8 arches of 8.00 Mts
102	31.270	4 Arches of 8 Mts
103	31.085	Rocciata tunnel 26 Mts
104	30.675	Viaduct 12 arches of 10 Mts

No	Kilom.	Description of work	Remarks
105	30.419	Molino tunnel 335 Mts	
106	30.028	Viaduct 2 arches 6.00 Mts & 3 of 10.00 Mts	
107	29.920	Boglia tunnel 1086 Mts	
108	28.761	2 arches of 10 Mts	
109	28.672	Mezzana tunnel 44 Mts	
110	27.587	Viaduct 3 arches of 14 Mts	
111	27.284	Viaduct 5 arches of 8 Mts	
112	27.201	Lucia and Noceta tunnel 347 Mts	
113	26.695	3 arches of 12 Mts	
114	26.654	Riovira tunnel 251 Mts	
115	26.191	Viaduct 14 arches of 15 Mts, 1 of 23 Mts, 43.00 Mts high	
116	25.621	Ellicoidale tunnel 150 Mts	
117	23.244	Jetti Chiesa tunnel 122 Mts	
118	22.165	Costa, S. Giovanni tunnel 146 Mts	
119	21.924	S. Giovanni tunnel	
120	21.694	Viaduct 10 arches of 7.90 Mts, 3 of 13.75 Mts, one of 6.00 Mts	
121	21.379	Corte Sprano tunnel 95 Mts	
122	21.270	Brunet tunnel 161 Mts	
123	20.865	Pontenuovo tunnel 425 Mts	
124	20.266	3 arches of 8 Mts	
125	19.842	2 arches of 6 Mts	
126	19.403	3 arches, 2 of 8.00 Mts, 1 of 21 Mts	
127	14.463	1 Arch 5.00 Mts	
128	12.850	3 Arches of 21.00 Mts	
129	9.935	Steel span of 74 Mts.	
130	0.935	3 Brick Arches of 24.80 Mts.	

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116	25.621	23 Mts, 45.00 Mts high
117	23.244	Ellicoidale tunnel 150 Mts
118	22.155	Jetti Chiesa tunnel 122 Mts
119	21.924	Costa, S. Giovanni tunnel 146 Mts
120	21.694	S. Giovanni tunnel
121	21.579	Viaduct 10 arches of 7.30 Mts, 3 of
122	21.270	13.75 Mts, one of 6.00 Mts
123	20.866	Corte Sprano tunnel 95 Mts
124	20.266	Brunet tunnel 161 Mts
125	19.842	Pontenuovo tunnel 425 Mts
126	19.403	3 arches of 8 Mts
127	14.466	2 arches of 6 Mts
128	12.850	3 arches, 2 of 8.00 Mts, 1 of 21 Mts
129	9.935	1 Arch 5.00 Mts
130	0.935	3 Arches of 21.00 Mts
		Steel span of 74 Mts.
		3 Brick Arches of 24.80 Mts.

APPENDIX H

CUNEO - CARMAGNOLA
LINE 52

DETAILS OF BRIDGES ETC.

Nº	Kilom.	Description of work	Remarks
1	73.302	11 Brick Arches of 15.00 Mts.	
2	39.779	2 Arches of 12 Mts.	
3	34.963	3 Arches of 10 Mts.	
4	19.256	3 Arches of 8.10 Mts.	

BRICK ARCHES 4
TOTAL ARCHES 19

BRICK ARCHES 4
TOTAL ARCHES 19

753

APPENDIX J

LINE 50 - PROFARELLO-TURIN

No Kilom.	Description of work	Remarks
1	Overbridge, span 9.06 Mts	
2	Overbridge, 8.40M span	
3	Bridge, 2 Arches, 15.00 Mts	
4	Viaduct of 27 atches, one of 8.30m, 1 of 1.20m, and 25 of 5.25 Mts	
5	Bridges, 7 Arches of 16.00 Mts	
6	Overbridge, 3 Arches, centrale one 8.50 Mts, and 2 of 5.50 Mts	
7	Overbridge 8.50 Mts	
8	Overbridge, 8.50 M span	
8	Overpass 2 spans, 8.50Mts and 5.50Mts	
9	Bridge, 7.00 Mts span	
10	Overbridge, 2 arches, one of 8.50 Mts & one of 5.50 Mts.	

752

5	7.803	8.30m, 1 of 1.20m, and 2.50 m
6	9.853	5.25 Mts
7	11.348	Bridges, 7 Arches of 16.00 Mts
8	12.648	Overbridge, 3 Arches, centrale one
9	13.404	8.50 Mts, and 2 of 5.50 Mts
10	13.855	Overbridge 8.50 Mts
	15.024	Overbridge, 8.50 M span
		Overpass 2 spans, 8.50Mts and 5.50Mts
		Bridge, 7.00 Mts span
		Overbridge, 2 arches, one of 8.50 Mts
		& one of 5.30 Mts.

APPENDIX K

TURIN-MILAN - LINE 53 LIST OF PRINCIPAL BRIDGES ETC.

1.	5.175	2	Arches, 4.00 Mts
2	5.403	1	Arch 6.00 Mts
3	5.327	3	Arches 2 of 4.25 Mts, 10 of 7.40
4	5.913	3	Arches of 12.00 Mts
5.	9.346	6	Steel spans of 15.00 Mts
6	9.513	1	Arch of 5.00 Mts
7	16.402	3	Arches of 5.00 Mts
8	19.957	3	Arches of 5.50 Mts
9	23.793	4	Steel spans of 20.00 Mts
10	25.078	6	Steel spans of 21.20 Mts
11	26.577	1	Steel span 4.85 Mts
12	37.137	7	Steel spans of 20.00
13	38.096	2	Arches of 7.50 Mts
14	77.636	3	Arches of 8.00 Mts
15	78.097	3	Arches of 4.00 Mts
16	79.082	13	Arches of 21.00 Mts & 2 of 2.40Mts
17	96.320	3	Steel spans of 10.00 Mts
18	114.133	11	Arches of 24.00 Mts
19	33.980	3	Steel spans of 17.40Mts & 2 of 14.25m
20	33.108	Arch of 4 Mts	
21	32.435	Arch of 4 Mts	
22	32.085	Arch of 6.00 Mts	
23	31.973	Arch of 5.00 Mts	
24	31.464	Arch of 7.10 Mts	
25	14.608	Arch of 4.50 Mts	
26	0.525	Arch of 14.00 Mts	
27	0.512	Arch of 8.00 Mts	
28	0.147	Arch of 9.00 Mts	
	0.137		

21 arch culverts of 57 arches
7 steel bridges of 27 spans

Considering the distance the vulnerable points are relatively few and apart from the steel bridges and 2 brick viaducts should be easily repairable.

4	5.913	3 Arches of 12.00 Mts
5	9.346	6 Steel spans of 15.00 Mts
6	9.513	1 Arch of 5.00 Mts
7	16.402	3 Arches of 5.00 Mts
8	19.957	3 Arches of 5.50 Mts
9	23.793	4 Steel spans of 20.00 Mts
10	25.078	6 Steel spans of 21.20 Mts
11	26.577	1 Steel span 4.85 Mts
12	37.137	7 Steel spans of 20.00
13	38.095	2 Arches of 7.50 Mts
14	77.636	3 Arches of 8.00 Mts
15	78.097	3 Arches of 4.00 Mts
16	79.082	13 Arches of 21.00 Mts & 2 of 2.40Mts
17	96.320	3 Steel spans of 10.00 Mts
18	114.133	11 Arches of 24.00 Mts
19	33.980	3 Steel spans of 17.40Mts & 2 of 14.25m
20	33.108	Arch of 4 Mts
21	32.435	Arch of 4 Mts
22	32.085	Arch of 6.00 Mts
23	31.973	Arch of 5.00 Mts
24	31.464	Arch of 7.10 Mts
25	14.608	Arch of 4.50 Mts
26	0.526	Arch of 14.00 Mts
27	0.512	Arch of 8.00 Mts
28	0.147	Arch of 9.00 Mts
	0.137	Arch of 9.00 Mts

21 arch culverts of 57 arches
7 steel bridges of 27 spans

Considering the distance the vulnerable points are relatively few and apart from the steel bridges and 2 brick viaducts should be easily repairable.

APPENDIX L

LINE MILAN-BRESCIA

Declassified E.O. 12356 Section 3.3/NND No. 785021

No	Kilom.	Description of work	Remarks
1	0.567	Viaduct 7 sections of 9 arches each of 4.35 Mts & 2 arches one each end of 2.85 Mts	
2	0.778	Iron bridge 11.60 Mts	
3	1.663	Arch of 5.25 Mts	
4	1.504	Arch of 5.05 Mts	
5	1.915	Arch of 4.00 Mts	
6	4.836	Arch of 13.40 Mts	
7	6.061	Bridge of 5.50 Mts	
8	14.527	Iron bridge 2.50 Mts	
9	17.628	Arch of 8.50 Mts	
10	25.680	Arch of 25.80 Mts	
11	25.941	5 arches of 25 Mts	
12	26.241	Arch of 8.10 Mts	
13	26.358	Arch of 6.00 Mts	
14	26.689	Arch of 8.05 Mts	
15	27.092	Arch of 5.00 Mts	
16	28.161	Arch of 5.10 Mts	
17	40.052	2 arches of 10.00 Mts	
18	42.144	7 arches of 16.00 Mts	
19	51.860	Arch of 10.60 Mts	
20	52.205	Viaduct 6 of 8.00 Mts one of 42.00 Mts	
21	52.757	Arch 4.20 Mts	
22	52.764	Arch of 6.00 Mts	
23	53.635	Steel bridge 5.77 Mts	
24	56.618	Steel bridge 6.95 Mts	
25	60.971	Arch of 6.60 Mts	
26	76.113	Arch of 10.00 Mts	
27	78.180	Steel bridge 6 spans of 9.00 Mts	
		Brescia	

750

7	6.061	Bridge of 5.50 Mts
8	14.527	Iron bridge 2.50 Mts
9	17.628	Arch of 8.50 Mts
10	25.580	Arch of 25.80 Mts
11	25.941	5 arches of 25 Mts
12	26.241	Arch of 8.10 Mts
13	26.358	Arch of 6.00 Mts
14	26.889	Arch of 8.05 Mts
15	27.092	Arch of 5.00 Mts
16	28.161	Arch of 5.10 Mts
17	40.053	2 arches of 10.00 Mts
18	42.144	7 arches of 16.00 Mts
19	51.860	Arch of 10.50 Mts
20	52.205	Viaduct 6 of 8.00 Mts one of 42.00 Mts
21	52.737	Arch 4.00 Mts
22	52.764	Arch of 6.00 Mts
23	53.635	Steel bridge 3.77 Mts
24	56.618	Steel bridge 6.95 Mts
25	62.971	Arch of 6.50 Mts
26	76.113	Arch of 10.00 Mts
27	78.186	Steel bridge 6 spans of 2.06 Mts

Brescia

APPENDIX M

BASTIA - CUNEO LINE 11

1	0.987	Steel Bridge	3.00	Span
2	1.254	2 Arches	18.76	Mts
3	1.724	Steel span	3.00	Mts
4	2.599	One arch	25.00	Mts
5	3.577	Tunnel	171	Mts
6	7.918	Tunnel	112	Mts
7	8.172	Tunnel	243	Mts
8		Mondovi Station		
8	25.654	Mondovi tunnel	1174	Mts
9	20.241	Brick arch	5.00	Mts
10	16.736	Pogliola Station.		
11	13.401	Brick arch	10.00	Mts
12	9.281	Pianfei station.		
13	6.621	3 arches of	15.00	Mts
14	0.704	Brick arch	10.00	Mts
15	0.229	Brick arch	16.00	Mts
		Steel bridge	6.50	Mts
		3 Arches of	24.38	Mts

Cuneo Station

3	small steel spans
8	arch bridges, 13 arches
3	tunnels.

719

7	2.172	Tunnel 243 Mts
8		Mondovi Station
8	25.654	Mondovi tunnel 1174 Mts
9	20.241	Brick arch 5.00 Mts
		Pogliola Station.
10	16.736	Brick arch 10.00 Mts
		Pianfei station.
11	13.401	3 arches of 15.00 Mts
12	9.281	Brick arch 10.00 Mts
13	6.621	Brick arch 10.00 Mts
14	0.704	Steel bridge 6.50 Mts
15	0.229	3 Arches of 24.38 Mts
		<u>Cuneo Station</u>
3		small steel spans
8		arch bridges, 13 arches
3		tunnels.

APPENDIX 0

LINE CUNEO - TORINO (103)

No	Kilom.	Description of work	Remarks
1	14.200	Viaduct 19 arches of 25 Mts 55 Mts high	
2	2.606	Viaduct 16 arches of 25 Mts 45 Mts high	

Declassified E.O. 12356 Section 3.3/NND No. 785021

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45 WTS HIGH

BEST COPY POSSIBLE

APPENDIX

LI GENCO-TORINO (103)

Line	Description of work	Remarks
1.095	Viaduct 11 arches of 15 Mts	
2.895	Steel bridge 5.00 Mts	
7.437	Steel bridge 2 spans of 20.00 Mts	
15.004	3 Arches of 10 Mts	
25.811	Steel bridge 2 spans of 25 Mts	
27.596	One arch of 10 Mts	
30.237	Steel bridge 3.00 Mts	
12.363	Steel bridge 7.00 Mts	
17.936	3 arches of 17.00 Mts	R.Po.
13.339	5 arches of 17.00 Mts	
10.898	2 arches of 10.00 Mts	

10 11

727

7.437	Steel bridge 2 spans of 20.00 Mts
15.004	3 Arches of 10 Mts
23.811	Steel bridge 2 spans of 25 Mts
27.596	One arch of 10 Mts
30.287	Steel bridge 8.00 Mts
12.383	Steel bridge 7.00 Mts
17.096	3 arches of 17.00 Mts
13.339	5 arches of 17.00 Mts
10.898	2 arches of 10.00 Mts

R.20.

10
11

AHS/em

TRANSPORTATION SUB-Commission, A.C.,
RAIL DIVISION
c/o Transportation (Br) Main,
C.N.F.

Tel : 843219

Ref : AG/TA/74/13 C.E.

1st October 1945.

SUBJECT : Priority of Works.

TO : Capt. Conway.

1. Reference attached letter from Chief of Works Section.
2. As urgent repairs to the workshops etc. are a necessity before the winter season sets in please arrange to coordinate these repairs, with the reconstruction of the bridges and tunnels.
3. If materials are in short supply repairs to the less important lines must be held up.
4. A programme of priority should be drawn up in conjunction with Engr. Bianchi.

Copy to : Chief Rail Division
Engr. Bianchi
Engr. Le Gino.

A.H. STREET, Lt. Colonel.

SUBJECT : Priority of Works.

TO : Capt. Conway.

1. Reference attached letter from Chief of Works Section.
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3. If materials are in short supply repairs to the less important lines must be held up.
4. A programme of priority should be drawn up in conjunction with Engr. Bianchi.

A.H. STRENGTH, Lt. Colonel.

Copy to : Chief Rail Division
Engr. Bianchi
Engr. Lo Cigno.

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MINISTERO DEI TRASPORTI
FERROVIE DELLO STATO
Servizio Lavori e Costruzioni

Roma, 20 SET 1945

n° L.5/17/63290/C.o.(13-E)1

OGGETTO:

Riparazione impianti del
Servizio Trazione nel
Compartimento di Torino.

A.C. SOTTOCOMMISSIONE TRASPORTI
(Col. Street)

- 1 - Fra i numerosi fabbricati ferroviari del Compartimento di Torino, danneggiati dalla guerra, che debbono essere riparati, hanno speciale importanza gli impianti del Servizio Trazione (Depositi locomotive, officine di riparazione delle locomotive, carrozze e carri):
 - 2 - La riparazione di questi ultimi è particolarmente urgente, dato l'approssimarsi della stagione invernale, in considerazione del grave disagio a cui altrimenti verrebbe sottoposto il personale addetto, che dovrebbe in questo caso lavorare allo scoperto ed esposto alle intemperie.
 - 3 - Il Cap. Conway, rappresentante locale di codesta Sottocommissione, ha disposto che la riparazione dei fabbricati sia subordinata alla riparazione dei ponti ed ha riservato per questi ultimi tutto il materiale da costruzione disponibile (cemento e mattoni).
 - 4 - Si prega voler esaminare se, per quanto esposto al punto 2, non sia possibile destinare parte di tali materiali al ripristino degli impianti del Servizio Trazione. In caso affermativo si prega dare le istruzioni adatte alle Autorità Alleate del Compartimento di Torino.

IL CAPO DEL SERVIZIO

- 1 - Fra i numerosi fabbricati ferroviari del Compartimento di Torino, danneggiati dalla guerra, che debbono essere riparati, hanno speciale importanza gli impianti del Servizio Trazione (Depositi locomotive, officine di riparazione delle locomotive, carrozze e carri):
- 2 - La riparazione di questi ultimi è particolarmente urgente, dato l'approssimarsi della stagione invernale, in considerazione del grave disagio a cui altrimenti verrebbe sottoposto il personale addetto, che dovrebbe in questo caso lavorare allo scoperto ed esposto alle intemperie.
- 3 - Il Cap. Conway, rappresentante locale di codesta Sottocommissione, ha disposto che la riparazione dei fabbricati sia subordinata alla riparazione dei ponti ed ha riservato per questi ultimi tutto il materiale da costruzione disponibile (cemento e mattoni).
- 4 - Si prega voler esaminare se, per quanto esposto al punto 2, non sia possibile destinare parte di tali materiali al ripristino degli impianti del Servizio Trazione. In caso affermativo si prega dare le istruzioni adatte alle Autorità Alleate del Compartimento di Torino.

IL CAPO DEL SERVIZIO



sf

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MINISTERO DEI TRASPORTI
~~MINISTERO DELLE COMUNICAZIONI~~
FERROVIE DELLO STATO - DIREZIONE GENERALE
(1) Servizio Lavori e Costruzioni

OGGETTO. Programma lavori pre inver-
nali e permanenti.

Roma, 3 agosto 1945 - A

N. C.S/402

Al N. A.C/Tn/44/33/C.E. del 14/7/45

File

12

SOTTOCOMMISSIONE TRASPORTI
Signor Colonnello STREET

1) Allego l'elenco dei lavori in corso lungo le linee 50-53-61-65-69-72-86-87-160, con il nome delle Ditte alle quali i lavori sono stati appaltati.

2) Mi riservo di trasmettere i preventivi di spesa.

IL CAPO DEL SERVIZIO

Loeque

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PROGRAMMA LAVORI PRE-INTERVALLI

Linea 50	Torino - Genova	Ponte Dispenza al Km. 258+045	La Sezione deve man- dare gli elaborati d'appalto
" 53	Torino - Milano	Ponte a Rovato al Km. 42+144	<i>Appaltato</i> Ditta Cappellietti
" 53	idem	Ponte S. Marco sul Chiese al Km. 97+900	<i>Appaltato</i> Ditta Pavan Olindo
" 53	idem	Viadotto a Desenza- no al Km. 108+520	<i>Appaltato</i> Ing. Bruno Chiesa
" 53	idem	Ponte sul Mincio P.S. al Km. 123+981	<i>Appaltato</i> Ditta Astaldi ✓
" 61	Milano - Genova	Ponte sullo Staffo- ra al Km. 3+378	<i>Appaltato</i> Ditte Sella e Graneis
" 61	idem	Ponte sul Po al Km. 14+988	<i>Appaltato</i> Ditte Lucca e Badoni
" 61	idem	Ponte sul Ticino al Km. 23+923	idem idem
" 65	Roma-Firenze-Bologna-Milano	Ponte sul Reno al Km. 3+717	<i>Appaltato Ditta</i> Infrastruttura Garofalo e C.
" 65	idem	Ponte sul Panaro al Km. 32+009	<i>Appaltato</i> Cooperativa Rappo e C.
" 65	Roma-Firenze-Bologna-Milano	Galleria Carnato Appaltato alla Dit- ta Cidonio	
" 65	idem	Tombino Km. 22+632	idem
" 65	idem	Galleria Moretto	idem
" 65	idem	Viadotto al Km. 22+455	Appaltato alla Ditta Ing. Provera
" 65	idem	Galleria Castagneto	idem
" 65	idem	Ricostruzione viadot- to Km. 34+093	idem
" 65	idem	Galleria Scopeto	Appaltato Ditta Cidonio
" 65	idem	Galleria Cerbino	idem
" 65	idem	Viadotto al Km. 34+138	idem
" 65	idem	Galleria Ferrigola	idem

"	53	idem	Monte S. Marco sul Chiese al Km. 97+900	Ditta Pavan Clindo
"	53	idem	Viadotto a Desenza - no al Km. 108+530	Appaltato Ing. Bruno Chiesa
"	61	Milano - Genova	Ponte sul Minio P.S. al Km. 122+981	Appaltato Ditta Istaldi ✓
"	61	idem	Ponte sullo Stiaffo - ra al Km. 3+373	Appaltato Ditte Sella e Cranata
"	61	idem	Ponte sul Po al Km. 14+983	Appaltato Ditte Lucca e Bedoni
"	61	idem	Ponte sul Ticino al Km. 33+923	idem idem
"	65	Roma-Firenze-Bologna-Milano	Ponte sul Reno al Km. 3+717	Appaltato Ditta Lecchi
"	65	idem	Ponte sul Panaro al Km. 32+009	Appaltato Ditta Lecchi
"	65	Roma-Firenze-Bologna-Milano	Galleria Cannato	Appaltato alla Ditta Cidonio
"	65	idem	Tombino Km. 23+632	idem
"	65	idem	Galleria Moretto	idem
"	65	idem	Viadotto al Km. 29+455	Appaltato alla Ditta Ing. Provera
"	65	idem	Galleria Castagneto	idem
"	65	idem	Ricostruzione viadot- to Km. 34+093	idem
"	65	idem	Galleria Scopeto	Appaltato Ditta Cidonio
"	65	idem	Galleria Cerbino	idem
"	65	idem	Viadotto al Km. 34+138	idem
"	65	idem	Galleria Ferrigola	idem
"	65	idem	Costruzione muro so- stegno Km. 34+799	idem
"	65	idem	Galleria Saletto	idem 743

Linea 65	Roma-Firenze-Bologna-Milano	Ponte sul Secchia al Km. 48+247	In corso gli appalti da parte <i>Leopone Bologna</i>
" 65	idem	Ponte sull'Enza al Km. 80+890	
" 65	idem	Ponte sul Parma al Km. 90+019	
" 65	idem	Ponte sul Taro al Km. 98+085	<i>Appalto Ditta F. Zerbini</i>
" 65	idem	Ponte sull'Arda <i>Appalto Lupera</i> al Km. 128+020 <i>Beltracchi di Piacenza</i>	
" 65	idem	Ponte sul <i>Appalto Lupera Ditta</i> al Km. 139+818 <i>Dr. Ing. S. Piacenza</i>	
" 65	Roma-Firenze	Ponte sul Tevere al Km. 92+370	Ditta Zerbini. Appalto il re- cupero. Già ricu- perate 2 campate. Da ricostruire campata Roma. In corso appalto
" 65	idem	Viadotto Rivotorto Km. 140+764	Appaltato Ditta Marinangeli
" 65	Roma-Firenze-Milano	Ponte sul Po Pia- cenza al Km. 147+918	Appaltato alla Ditta Badoni
" 65		Fiume Trebbia vicino Ing. Rassa Piacenza Km. 90+300	
" 69	Modena-Verona	Ponte sul Po Ostiglia al Km. 37+788	Appaltato opere metalliche alla S.A. Ansaldo e opere murarie alla Ditta Piazzoli
" 72	Trieste-Udine	Viadotto Isonzo	Non si hanno no- tizie
" 72	idem	Viadotto Natissone	
" 86	Bologna-Lecce	Ponte sul Metauro al Km. 159+805	Appaltato Ditta Mancini Ing. Luigi
" 86	Bologna-Rimini-Lecce	Ponte Tronto al Km. 295+444	Nulla fatto. Ponte in ferro
" 86	Bologna-Ancona-Lecce	Ponte sul Biferno al Km. 444+859	Appaltato alla Ditta Fina Cia- come

"	65	idem	Ponte sul Taro al Km. 93+058	Appaltato Ditta P. B. B. B.
"	65	idem	Ponte sull'Arda al Km. 126+020	Appaltato Ditta P. B. B. B.
"	65	idem	Ponte sul Tevere al Km. 139+818	Appaltato Ditta P. B. B. B.
"	65	Roma-Firenze	Ponte sul Tevere al Km. 92+370	Ditta Terbinati. Appaltato il re- cupero. Già ricu- perate 3 campate. Da ricostruire campata Roma. In corso appalto
"	65	idem	Viadotto Rivotorto Km. 140+764	Appaltato Ditta Marinangeli
"	65	Roma-Firenze-Milano	Ponte sul Po Pia- cenza al Km. 147+916	Appaltato alla Ditta Badoni
"	66		Fiume Trebbia vicino Ing. Ransa Piacenza Km. 90+300	
"	69	Modena-Verona	Ponte sul Po Ostiglia al Km. 67+788	Appaltato opere metalliche alle S.A. Ansaldo e opere murarie alla Ditta Piazzoli
"	72	Trieste-Udine	Viadotto Isonzo	Non si hanno no- tizie
"	72	idem	Viadotto Natissone	
"	86	Bologna-Lecce	Ponte sul Metauro al Km. 159+805	Appaltato Ditta Mancini Ing. Luigi
"	86	Bologna-Rimini-Lecce	Ponte Tronto al Km. 295+444	Nulla fatto. Ponte in ferro
"	86	Bologna-Ancona-Lecce	Ponte sul Biferno al Km. 444+859	Appaltato alla Ditta Vina Gia- como
"	86	idem	Ponte sul Cervaro al Km. 636+621	Appaltato alla Ditta S.A. It. Costr. e Lavori Pubblici (S.I.C.E.L.P.)

Linea 66 (Sud) Bologna-Ancona-Lecce	Ponte sull'Ofanto al Km. 586+663	Appaltato alla Ditta Pascoli Ing. Ennio. Si <u>riappalta in</u> <u>danno.</u>
" 87 Orte-Talcomara	Ponte Bono al Km. 225+029	Appaltato alla Ditta Ing. Serre- ni-Termentini e Lenti.
" 87 idem	Ponte sull'Esino al Km. 236+178	Appaltato Ditta Montella Edoardo
" 87 idem	Ponte sull'Esino al Km. 241+883	idem
" 87 idem	Ricostruzione gal- leria Balduini	Appaltato alla Ditta Cidenio Pietro.
" 160 Milano-Cremona	Ponte sull'Adda al Km. 7+969	Ditta Zerbiniati

"	87	idem	Ponte sull'Esino al Km. 236+176	Appaltato Ditta Montella Edecaro
"	87	idem	Ponte sull'Esino al Km. 341+893	idem
"	87	idem	Ricostruzione gal- leria Balduini	Appaltato alla Ditta Cidenio Pietro.
"	160	Milano-Cremora	Ponte sull'Adda al Km. 7+969	Ditta Zerbinati

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Tel. 513

HEADQUARTERS ALLIED COMMISSION
APO 394
Transportation Sub-Commission

CR/lr

AC/

27 July 1945

SUBJECT : Rail Construction Priorities.

TO : Rail Div. Tn.4
(Attn. Lt. Col. A.H. Street, D.S.O.)

1. Attached is copy of last issue of Construction Priority List dated 6 July 1945.

2. Will you kindly delete sections of lines where construction is completed and amend target dates where necessary.

3. It would appear that all works under M.R.S. will be completed by 31 July 1945. Will you consult them and insert any other projects they may have undertaken.

4. On completion of this list please return it to the Deputy Director for typing and distribution.
Date of issue 7 August 1945.

F.P. Richardson
F.P. RICHARDSON
Major

Planning Staff.

AHS/ef

TRANSPORTATION SUB-COMMISSION, A.C.,
(RAIL DIVISION)
c/o Transportation (Br) Main,
C.M.F.

4th August 1945

Tel : 843239
Ref : AC/Tn/71/10/C.E.

SUBJECT : Rail construction
priorities.

TO : Planning Division
Attn: Major Richardson.

1. Herewith please find revised list of priorities
and dates of completion.

2. M.R.S. commitments are as follows:

Priority	No of line	Section of line	Target Date
	50	Turin-Modane	Uncertain
X	71	Gemona-Villach	open
X	88/188	Trieste-Udine	open
X	71	Venice-Udine-Gemona	open
X	53	Vicenza-Mestre	open
	65/59	Bologna-Alessandria	31-7-45 <i>uncertain</i>
X	69	Verona-Innsbruck	open
X	66	Fortezza-Villach	31-7-45 <i>open</i>
X	65/69	Bologna-Verona	open

3. Allied Commission commitments are as follows:

Priority	No of line	Section of line	Target Date.
1	219	Pisa-Impoli-Florence	15-10-45
		Permanent repair	30-10-45
		Orte-Chiusi	30-8-45
1	65	Rio Torto Viaduct	15-8-45
1	65	Giulianova-Teramo	30-8-45
1	246	Albacina-Civitanova	30-8-45

priorities.

TO : Planning Division
Attn: Major Richardson.

1. Herewith please find revised list of priorities and dates of completion.

2. M.R.S. commitments are as follows:

Priority	Nº of line	Section of line	Target Date
	50	Turin-Medane	Uncertain
	X 71	Gemona-Villach	open
	X 88/188	Trieste-Udine	open
	X 71	Venice-Udine-Gemona	open
	X 53	Vicenza-Mestre	open
	65/59	Bologna-Alessandria	31-7-45 <i>Uncertain</i>
	X 69	Verona-Innsbruck	open
	X 66	Fortezza-Villach	31-7-45 <i>open</i>
	X 65/69	Bologna-Verona	open .

3. Allied Commission commitments are as follows:

Priority	Nº of line	Section of line	Target Date.
1	219	Pisa-Empoli-Florence	15-10-45
		Permanent repair	30-10-45
1	65	Orte-Chiusi	30-8-45
1	65	Rio Torto Viaduct	15-8-45
1	246	Giulianova-Teramo	30-8-45
1	242	Albacina-Civitanova	
1	245	Porto d'Ascoli -	
		Ascoli Piceno	30-8-45
1	277	Terni-Rieti	30-10-45
1	277	Antrodoto-l'Aquila	15-11-45
1	Priv. Rly.	Lauria Viaduct	30-10-45
1	Priv. Rly.	Terni-Todi-Perugia	30-10-45

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- 2 -

Priority	No of line	Section of line	Target Date
open 244	244	Bastia - Ellera	30.9.45
15-3-45	Priv.Rly.	Ellera - Pietrafitta	30.8.45
X	Priv.Rly.	Cancello-Benevento	opened
	65	Florence-Arezzo	30.3.46
	61	Genoa-San Remo	30.9.45
	65	Prato-Vernio per-	Uncertain
		manent repairs	
		Permanent bridge river	
		Ostiglia	Uncertain
		Avellino-Benevento	30.10.45
		Avellino-Rocchetta	30.9.45
		Torre Annunziata-Cancello	30.9.45
		Ofanto viaduct	30.8.45
		Pescara-Chieti	opened
		Biferno bridge	30.9.45
		Bridge Naples Central	
		Naples Scali	
		Rome-Avezzano	30.9.45
		Spezia-Genoa	30.9.45
		Viareggio-La Spezia	28.2.46
		Dispensa river bridge	Uncertain
		Ferrazzano tunnel(Campob)	Uncertain
		W/shops Vagliari	30.7.45
		Rome-Ciampino-Albano	30.10.45
		Loco Depot, Leghorn Centr.	30.8.45
		Loco Depot, Rome Smistam.	30.8.45
		Chiusi-Sinalunga-Empoli	30.2.46
		Central station Civita-	
		Vecchia	15.10.45
		Loco Round house Rome-	
		San Lorenzo	30.8.45
		Warehouse Rome Tiburtina	30.8.45
		Yard, Rome Smistamento	30.8.45
		Priv.Rly. P. San Giorgio-	
		Amendola	
		Campobasso-Benevento	30.9.45
		Various Blgs. Naples	30.8.45
		Bridge, Torre Annunziata-	
		Castellammare	Uncertain
		Antrodiceo-l'Aquila	15.11.45
		Antrodiceo-Vallata	Uncertain
		Priv.Rly.	

1	Permanent bridge river		Uncertain
2	Ostiglia	281	30.10.45
2	Avellino-Benevento	294	30.9.45
2	Avellino-Rocchetta	291	30.9.45
2	Torre Annunziata-Cancello		30.8.45
2	Ofanto viaduct	88	opened
2	Pescara-Chieti		30.9.45
2	Biferno bridge		
2	Bridge Naples Central		
2	Naples Scali		
2	Rome-Avezzano	83	30.9.45
2	Spezia-Genoa	50	30.9.45
2	Viareggio-La Spezia	50	28.2.46
2	Dispensa river bridge	50	Uncertain
2	Ferrazzano tunnel(Campob)	279	Uncertain
3	W/shops Vagliari		30.7.45
3	Rome-Ciampino-Albano	260	30.10.45
3	Loco Depot, Leghorn Centr.		30.8.45
3	Loco Depot, Rome Smistam.		30.8.45
3	Chiusi-Sinalunga-Empoli	220	30.2.46
3	Central station Civita-		
3	Vecchia		15.10.45
3	Loco Round house Rome-		
3	San Lorenzo		30.8.45
3	Warehouse Rome Tiburtina		30.8.45
3	Yard, Rome Smistamento		30.8.45
3	Priv.Rly.P.San Giorgio-		
3	Amendola		
3	Campobasso-Benevento	279	
3	Various Blgs.Naples		30.9.45
3	Bridge, Torre Annunziata-		30.8.45
3	Castellammare		
3	Antrodoto-l'Aquila	Priv.Rly.	Uncertain
3	Cecchina-Velletri	258	15.11.45
3	Montepescali-Roccastrada	221	Uncertain
3	Naples.	I.S.R.Offices	

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A.H.STREET, Lt.Col.

45 MADA V MBYW IMPORTANT

FROM MAJOR MOLE C/O ISR 61 AREA 19 JULY .

TO TN MAIN (BR)

BT

ANC/19/3. RESTRICTED . FOR STREET AC TN SUB COMM .

YOUR SIGNAL 058 NOT CLEAR . DOES ~~MECHANICAL~~ MECHANICAL EQUIPMENT
REQUIRED REFER ONLY TO THAT WHICH MIGHT BE NEEDED ON LIST OF WORKS
GIVEN WITH YOUR LETTER AC/TN/71/1 CE .

BT 191125B

SENT DEAKIN AR

O MORC 45 191225B JC AR -

128



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Ext: 513

HEADQUARTERS ALLIED COMMISSION
APO 394
TRANSPORTATION SUB COMMISSION

FPR/14 *8*

Ref: 233/14/8/Tn.2

21 June 1945

To : Rail Division Tn.4

Subject : Line 65. Arezzo - Florence.

(1) Under reference AO/275/TN dated 31 December '44 approval was granted for the reconstruction of the above line and the estimate of expenditure Lire 470,000,000 (four hundred and seventy million lire) authorised.

(2) Due to the heavy destruction on this line and amount of material required, such as cement and steel, it was agreed that repairs should be carried out on a two-phase basis.

(3) It is now essential that the project on a two-phase basis be dropped and the work placed on the PRIORITY 1 list. Contracts should be let for the reconstruction of the whole section Arezzo - Florence so as to connect up with the lignite mine at Castelnuovo which is capable of producing 500 tons of lignite per day.

(4) The line may be linked either at Arezzo or at the Florence end, whichever can be connected with the mine in the least possible time.

(5) Cut on imports of coal make this work imperative.

F. P. Richardson Maj.

F. P. RICHARDSON, Major,
Planning Staff,
Transportation Sub Commission.

Copies to:-
1. Rail Division (Tn.4) (attn. Maj. A. E. Street)
2. Movements Division (Tn.3)
(attn. Lt. Col. J. W. Baker)

AHS/ em

TRANSPORTATION SUB-COMMISSION, A.C.,
(RAIL DIVISION)
c/o. Transportation (Br) Main,
C.M.F.

Tel : 843239
Ref : AC/Tn/71/ C.E.

11th July 1945

SUBJECT : Winterization programme.

TO : Eng. Le Cigno
Chief of Works Service

1. Attached is list of Works, as far as known at present, which require to be permanently repaired before the winter.
2. Please issue instructions that permanent repairs, if not already started, are to be put in hand at once.
3. Estimates where already not supplied must be submitted for each line so that financial can be obtained.
4. These works are to be treated as Priority I and take precedence over all work not being carried out by military organizations.
5. As it is possible that certain works, requiring permanent repair before the winter have been omitted, please arrange for the chief of works section for each division, in conjunction with A.C. Rail engineers to submit a supplementary list.
6. This must be treated as urgent.

For the Director.

A.E. STREET, Major.

Copy to : Major Buckley
Major Mole
Capt. Conway
Mr. Richard

INTERIZATION PROGRAMME

Line 36 (South)	Ofanto-bridge
Line 65	Bassano Bridge
Line 65	Rio Torto Viaduct
Line 50	Dispensa Bridge
Line 86 (Central)	Tronto Bridge
Line 86 (North)	Esino Bridge
Line 86 (North)	Metauro Bridge
Line 87	Bono Bridge
Line 87	Reconstruction Balduini tunnel
Line 65	Po river Bridge - Piacenza.
Line 69	Po river Bridge - Ostiglia.
Line 72	Isonzo viaduct.
Line 72	Matissone Viaduct.

Prato-Bologna

Line 65	Carneto tunnel
Line 65	Km. 22+632 Culvert
Line 65	Meretto tunnel
Line 65	Viaduct at Km. 29+455.
Line 65	Cestagnato tunnel
Line 65	Reconstruction Viaduct Km. 30+096.
Line 65	Scopeto tunnel
Line 65	Cerbino tunnel
Line 65	Viaduct at Km. 34+138.
Line 65	Perrigola tunnel
Line 65	Construction of retaining wall Km. 34+799
Line 65	Saletto tunnel
Line 65	Keno river bridge
Line 65	Secchia river bridge
Line 65	Enza river bridge
Line 65	Parma bridge
Line 65	Taro river bridge I.S.R. Contract
Line 65	Arda river bridge
Line 65	Nure river bridge
Line 65	Ticino river bridge
Line 61	Po river bridge
Line 61	Staffora river bridge
Line 61	Curone river bridge
Line 61	Serivia river bridge
Line 61 & 66	Adda river bridge
Line 160	Bridge at Rovato
Line 53	Bridge over river Mincio I.S.R.

Line 09
Line 72
Line 72

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AHS/ef

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HEADQUARTERS ALLIED COMMISSION
AFO 394
TRANSPORTATION SUB -COMMISSION

2nd May 1945

Tel: 843239

Our ref: AC/Tn/36/17/.C.E.

TO : Director, Tn-Sub-Commission

SUBJECT : Various works.

1. Below is given for information the estimated time of completion of the various works.

Priority	No of Line	Section of line	Target Date
1	86	Ortona-Ancona	30.4.45
1	Bridge	Petrace	30.6.45
1	279	Termoli-Campobasso	30.4.45
1	219	Pisa-Empoli-Florence	15.7.45
1	87	Orte-Rome (doubling of)	Completed
1	65	Orte-Chiusi (perm. reconst.)	30.10.45
1	65	Bio Torto viaduct	30.8.45
1	246	Giulianova-Teramo	15.8.45
1	Pr. Rly.	Cancello-Benevento	30.6.45
1	257	Rome-Viterbo	30.4.45
2	281	Avellino-Benevento	15.9.45
2	294	Avellino-Rocchetta	30.9.45
2	291	Torre Annunziata-Cancello	15.7.45
2	Viaduct	Ofanto	30.8.45
2	88	Pescara-Chieti	30.7.45
2	Bridge	Biferno	30.7.45
3	W/shops	Cagliari	30.7.45
3	88	Rome-Avezzano	15.7.45
3	+ 65	Florence-Arezzo	30.4.46
3	277	Terni-Rieti	30.6.45
3	266	Rome-Ciampino-Albano	15.7.45
3	Loco Depot	Livorno Centrale	30.8.45
3	Loco Depot	Rome Smistamento	30.6.45
3	+220	Chiusi-Sinalunga-Empoli	20.2.46
3	Electric		
3	W/shops & Offices		
3	Central stat.	Ancona	30.6.45
3	Loco round house	Civitavecchia	15.9.45
3		Rome S. Lorenzo	30.7.45

Priority	No of Line	Section of line	Target Date
1	86	Ortona-Ancona	30.4.45
1	Bridge	Petrace	30.6.45
1	279	Termoli-Campobasso	30.4.45
1	219	Pisa-Empoli-Florence	15.7.45
1	87	Orte-Rome(doubling of)	Completed
1	65	Orte-Chiusi(perm.reconst.)	30.10.45
1	65	Rio Torto viaduct	30.8.45
1	246	Giulianova-Teramo	15.8.45
1	Pr.Rly.	Cancello-Benevento	30.6.45
1	257	Rome-Viterbo	30.4.45
2	281	Avellino-Benevento	15.9.45
2	294	Avellino-Rocchetta	30.9.45
2	291	Torre Annunziata-Cancello	15.7.45
2	Viaduct	Ofanto	30.8.45
2	88	Pescara-Chieti	30.7.45
2	Bridge	Biferno	30.7.45
2	W/shops	Cagliari	30.7.45
3	88	Rome-Avezzano	15.7.45
3	+ 65	Florence-Arezzo	30.4.46
3	277	Terni-Rieti	30.6.45
3	266	Rome-Ciampino-Albano	15.7.45
3	Loco Depot	Livorno Centrale	30.8.45
3	Loco Depot	Rome Smistamento	30.6.45
3	+220	Chiusi-Sinalunga-Empoli	30.2.46
3	Electric		
3	W/shops &		
3	Offices	Ancona	30.6.45
3	Central stat.	Civitavecchia	15.9.45
3	Loco round		
3	house	Rome S. Lorenzo	30.7.45
3	Warehouse	Rome Tiburtina	30.7.45
3	Pr.Rly.	Lauria Viaduct	
3	Pf.Rly.	Terni-Todi-Perugia	30.8.45
3	Yard	Rome-Smistamento	30.7.45
++	244	Bastia-Eltera	30.8.45
D	279	Benevento-Campobasso	30.9.45
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Priority	No of line	Section of line	Target Date
D	Various blgs.	Naples	30.8.45
D	276	Bivio Bosco Rodole	15.10.45
		Carpinone	15.11.45
D	278	Carpinone-Isernia	15.11.45
D	278	Isernia-Vairano-Caianello	15.11.45
D	Pr.Rly.	Antrodoto-Aquila	15.11.45

2. Above dates are dependent on availability of materials.

A.H. STREET, Major.

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Carpinone-Isernia
Isernia-Vairano-Caianello 15.11.45
Antrodoto-Aquila 15.11.45

D 278
D 278
D Pr.Rly.

2. Above dates are dependent on availability of materials.

A.H. STREET, Major.

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