Declassified E.O. 12356 Section 3.3/NND No. 785015

ACC 10000/147/1555 (10½ folders)

T/64/CS UNDERGROUND CABLES - Part II

June 1945 - Jan 1946

Declassified E.O. 12356 Section 3.3/NND No. 785015

MAPS FILMED ON

35MM ROLL

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject:- TELEPHONE CIRCUIT ALLOCATION DIAGRAM.

Allied Force Headquarters,
Lines Liaison Office,
R.C.E.

Tele No: [illegible]

Ref No: [illegible]

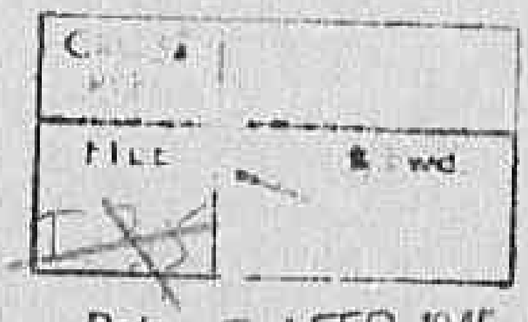
28 January 1945

TO : AS PER DISTRIBUTION

Allocation Diagram Telephone Circuits AFHQ - BOLOGNA, Issue No. 12, is forwarded herewith on the scale shown below.

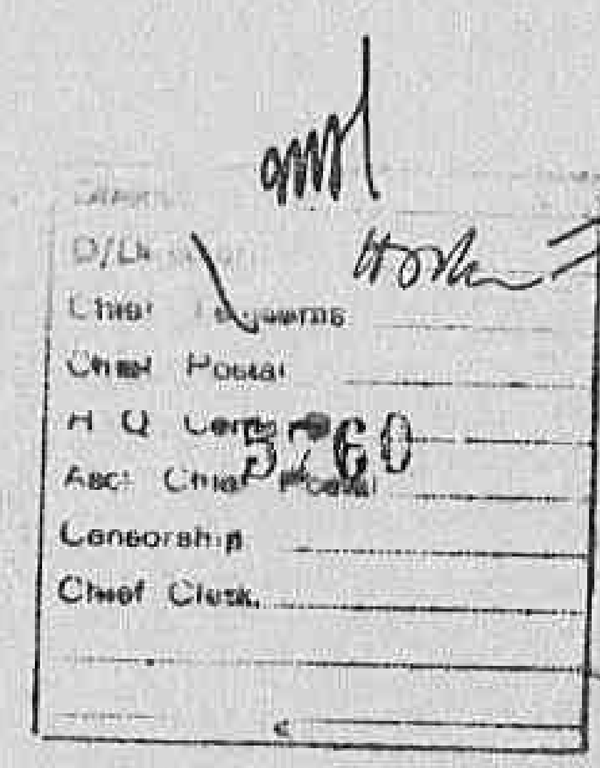
Brigadier,
Chief Signal Officer.

PRT/mcl.



DISTRIBUTION :

CSO, AF	3 (2 for War Office)
CSO, 2 District	1
CSO, 3 District	1
CSO Air Fmn Sigs Adv, AAF, Tibni	1
Major B.S.Lunns, c/o Sig Office 2 District ...	1
CO, 1 L of C Signals	1
CO, 16 L of C Signals	1
OIC BOLOGNA Fault Control	2
OIC ANCONA Fault Control	2
OIC FOGGIA Fault Control	1
OIC BOLOGNA R/Station	1
Director Comms Sub-Commission AC	1
Ministry of P. & T.	1
U S T	2
War Diary	1
File	1



Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject:- TELEPHONE CIRCUIT ALLOCATION DIAGRAM.

Allied Force Headquarters,
Long Lines Liaison Office,
R O M E.

Tele No. ROMAC 566016.

Ref No. 311.2/28-3

28 January 1946.

TO : AS PER DISTRIBUTION

Allocation Diagram Telephone Circuits O.H. Network covering NAPLES, FOGGIA, ANCONA, FLORENCE FOLIGNO and ROME, ISSUE No. 12, is forwarded herewith on the scale shown below.

F. R. Lee Cole
Brigadier,
Chief Signal Officer.

FRT/HEM

DISTRIBUTION :

CSO, AFHQ	3 (2 for War Office)
CSO 3 District	1
CSO AIR FOR SIGS AFHQ, RAF ITALY	1
Stg Offr, RAAC	1
CO, 2 GHQ Signals	1
OC, 11 L of C Signals	1
OC, 16 L of C Signals	1
OIC NAPLES Fault Control	2
OIC ROME Fault Control	2
OIC FLORENCE Fault Control	2
OIC ANCONA Fault Control	2
OIC FOGGIA Fault Control	2
OIC CASERTA Maintenance Control	2
Director Comms Sub-Commission AC	1
Ministry of P & T	2
U S T	1
War Diary	2
File	1

5759

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.75.CS 8 February 1946

SUBJECT: Loading Pots-Siena

TO : Under-Secretary of State for PP. & TT.
(Att: Ing. Possenti)

1. With reference to your verbal statement regarding damage being suffered by loading pots in the open at Siena, the CSO states that New Zealand Forces do not now occupy the Caserma.

2. In addition local military circuits are apparently being cancelled which suggests that no Allied troops are now on the Caserma.

3. It is suggested that you investigate the matter with a view to the return of the pots to the building.

4. The CSO can take no action as the pots have been returned to you, and there appear to be no troops in the building.

H.H.SCUDDER,
Col.Sig.C.
Director.

5758

Mod. 9 (A.I.)

MINISTERO DELLE POSTE E DELLE TELECOMUNICAZIONI
AZIENDA DI STATO PER I SERVIZI TELEFONICI

Reparto CENTRALE DELLA CORRISPONDENZA

3453 PROT. N. 1728626/81 ALLEGATI

-6 FEB. 1946
Roma, 19

RISPOSTA AL N.

DEL

OGGETTO: Circuiti telefonici Milano-Chiasso-Lugano.

9

ALLA COMMISSIONE ALLEATA
SOTTOCOMMISSIONE TELECOMUNICAZIONI
R O M A

Con riferimento al T. 64|63 CS in data 10/1/46 s'informa che in data 21/1 c. a. sono stati attivati al traffico civile i nuovi circuiti Milano-Lugano 11, 12.

Director
D/Director
Chief Telegrams
Chief Postal
H. Q., Comm
Asst Chief Postal

IL DIRETTORE DELL'AZIENDA.

CABLE REFS
FILE 64

Declassified E.O. 12356 Section 3.3/NND No. 785015

9

ALLA COMMISSIONE ALLEATA

SOTTOCOMMISSIONE TELECOMUNICAZIONI

R O M A

Con riferimento al T. 64/63 CS in data 10/1/46 s'informa che in data 21/1 c. a. sono stati attivati al traffico civile i nuovi circuiti Milano-Lugano 11, 12.

IL DIRETTORE DELL'AZIENDA.

Director
D/Director
Chief Telecoms
Chief Postal
H. Q., Comm
Asst Chief Postal

CROSS REFS
FILE 164
Date

74

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject:- Cable Stores -, SIENA.

Allied Force Headquarters
Long Lines Liaison Office
R O M E

Tel. No. ROME 566016

Ref. No. 311.2/6

4th February 1946

Director, Comms Sub-Commission, A.C.

Reference your T.64.70.CS dated 27th January 1946.

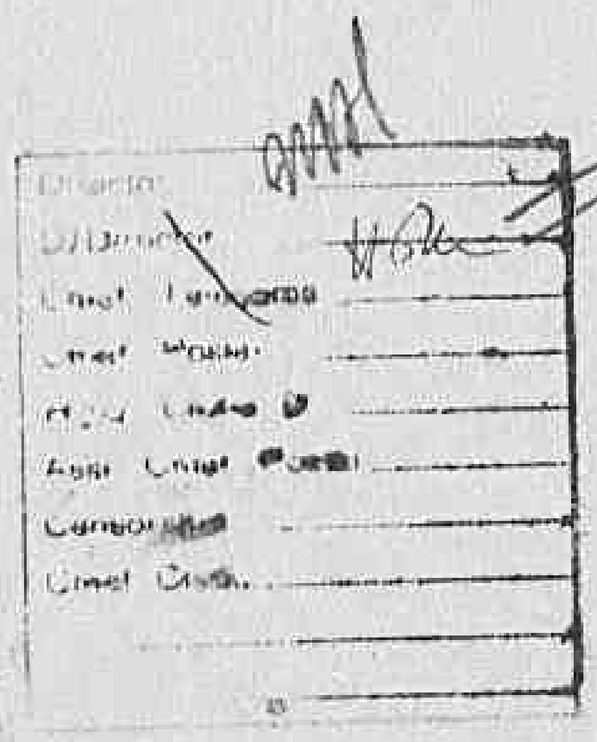
1. The Loading Pots mentioned in your letter have been handed over to the Azienda di Stato.

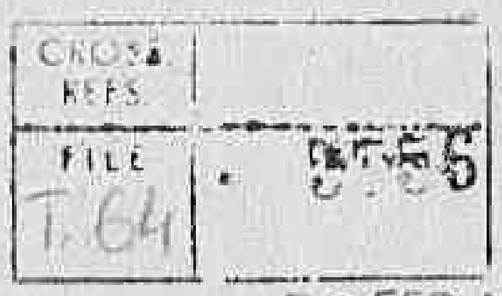
2. It is therefore the responsibility of the Azienda di Stato to ensure that adequate precautions are taken to avoid damage.

Yours Col

for Brigadier,
Chief Signal Officer.

PHM/EMF.





Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS
LOMBARDIA REGION LIAISON GROUP
ALLIED COMMISSION
APO 394

Tel·Milano 12781

4th February 1946

CMS/7

SUBJECT : Cable records.

TO : INSPECTOR 1st ZONE AZIENDA DI STATO
MILANO

1. It is very necessary that your transmission department keeps accurate and up-to-date records of all cables in your zone showing ect. routing, pair numbers involved and to whom allocated.

2. The Civil Long Lines Department of the Ministry of P. & T. now established in Rome with Allied Military Liaison Officers attached is liable to call on you for accurate data on your network and this should be available without delay.

3. Please advise when you consider your records are satisfactory.

For the Chief Liaison Officer

A. C. Holland.

A.C. HOLLAND
Major R. Signals
Telecoms.Liaison Officer
N.W. Italy.

Copy to :
- HEADQUARTERS ALLIED COMMISSION
att: Communications Su-Commission -Rome
- C.S.O 2 DISTRICT.

CROSS REFS
FILE T.64
Encl.

5 FEB 1946

Dirett.
D/Dirett.
Chief
Chief
H Q Comm D
Asst Chief
Censorship
Chief Clerk

5755

72

Subject:- Allocation and Maintenance Responsibilities - Hand-over to Italian Long Lines Department of State Cable South of NAPLES.

Allied Forces Headquarters
Long Lines Liaison Office
R O M E

Tel. No. ROME 566016

Ref. No. 413.4/13

30th January 1946

AS PER DISTRIBUTION.

1. The Italian State Cable South of NAPLES i.e. NAPLES - BARI, NAPLES - PALERMO will be handed over to the Italian Long Lines Department for complete control w.e.f. 4th February 1946.

2. As a result of this hand-over there will be a divided responsibility in control at NAPLES FC and BARI FC until such time as it is possible to hand-over responsibility for all circuits in those Fault Control Areas. The MAPRSPE Regional Directors will become Fault Control Officers as far as the aforementioned cable is concerned and in this respect the Military Fault Control Officer's will act in a liaison capacity only. Responsibilities for the remainder of the system will, for the present, remain unchanged.

3. In accordance with CSO L of C Italy Signal Instruction No. 27, this office will inform Military Fault Control Officers of Italian Circuit Order references affecting the military telephone network and concerned entirely with the State Cable South of Naples, together with the target date and time agreed for completion. Where a circuit change involves the Cable South of Bari and other facilities remaining under military control e.g. a change affecting a FREEDOM - BARI LD circuit, the complete information will be given in a ICO issued by this office in order to avoid any opportunity for confusion. In such a case however the executive order for the change as far as the Italian controlled facilities are concerned will still be issued by the Italian Long Lines Department.

4. Italian Circuit Orders will be issued through the normal civilian telegraph network. The Military Fault Control Officer will arrange to obtain copies of all such orders affecting the Military System, and will advise this office of completions in these cases.

5. Special attention is drawn to paragraph 12 of CSO L of C Italy Signal Instruction No. 27, particularly those sub-paras dealing with record maintenance.

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. The Italian State Cable South of NAPLES i.e. NAPLES - BARI, NAPLES - PALERMO will be handed over to the Italian Long Lines Department for complete control w.e.f. 4th February 1946.

2. As a result of this hand-over there will be a divided responsibility in control at NAPLES FC and BARI FC until such time as it is possible to hand-over responsibility for all circuits in those Fault Control Areas. The MAMESPE Regional Directors will become Fault Control Officers as far as the aforementioned cable is concerned and in this respect the Military Fault Control Officer's will act in a liaison capacity only. Responsibilities for the remainder of the system will, for the present, remain unchanged.

3. In accordance with CSO L of C Italy Signal Instruction No. 27, this office will inform Military Fault Control Officers of Italian Circuit Order references affecting the military telephone network and concerned entirely with the State Cable South of Naples, together with the target date and time agreed for completion. Where a circuit change involves the Cable South of Bari and other facilities remaining under military control e.g. a change affecting a FREEDOM - BARI LD circuit, the complete information will be given in a TCO issued by this office in order to avoid any opportunity for confusion. In such a case however the executive order for the change as far as the Italian controlled facilities are concerned will still be issued by the Italian Long Lines Department.

4. Italian Circuit Orders will be issued through the normal civilian telegraph network. The Military Fault Control Officer will arrange to obtain copies of all such orders affecting the Military System, and will advise this office of completions in these cases.

5. Special attention is drawn to paragraph 12 of CSO L of C Italy Signal Instruction No. 27, particularly those sub-paras dealing with record maintenance.

6. Attached at Appendix "A" to this letter is a list of circuits which require priority reroute attention over the facilities being taken over by the Italian Long Lines Department. The principles governing reroutes as laid down in CSO L of C Italy Signal Instruction No. 20 should be explained to the Italian Fault Control Officer, pending the issue of a parallel instruction by the Italian Long Lines Department. Sufficient copies of Appendix "A" are forwarded to ensure liberal distribution to Italian staff within the Fault Control Areas.

Director
D/Director
Chief Engineering
Chief Master
A.Q. Maintenance
Asst Chief Engr
Censorship
Chief Clerk

CSO's Pers
FILE
T35

T. Ops 31 DEC 1945

...../ 7. 71.A 51.A

Declassified E.O. 12356 Section 3.3/NND No. 785015

7. Although it is emphasised that every assistance in the way of advice must be given by the Military Fault Control Officers to their civilian opposite numbers, the Italian Staff must carry out its proper functions and responsibilities.

Brigadier,
Chief Signal Officer.

JCB/EMF.

DISTRIBUTION:-

ACTION: CSO 3 District
OC 11 L of C Signals (with 10 copies of Appendix "A").
OIC Fault Control Naples (" 10 " " ").
OIC Fault Control Bari (2 10 " " ").

INFO: CSO AFHQ
Director Comms Sub-Commission A.C. (2 - one copy for Ministry of P & T).
CSO 13 Corps
CSO 2 District
CSO Air Fmn Sigs HQ Italy
Sig O RAAC
Sig O PBS
Sig O PBS (South)
OC 2 GHQ Signals
OC 1 L of C Signals
OC 14 L of C Signals
OC 16 L of C Signals
Wire Officer, 3141 Signal Service Group
OIC Fault Control Bologna
OIC Fault Control Rome
OIC Fault Control Florence
OIC Fault Control Foggia
OIC Fault Control Ancona
OIC Caserta Maintenance Control
OIC Milan Maintenance Control
War Diary (2)
Director U.S.T.

Declassified E.O. 12356 Section 3.3/NND No. 785015

JGB/EMF.

DISTRIBUTION:-

ACTION: CSO 3 District
OC 11 L of C Signals (with 10 copies of Appendix "A").
OIC Fault Control Naples (" 10 " " ").
OIC Fault Control Bari (2 10 " " ").

INFO: CSO AFHQ
Director Comms Sub-Commission A.C. (2 - one copy for Ministry of P & T).
CSO 13 Corps
CSO 2 District
CSO Air Fmn Sigs HQ Italy
Sig O RAAC
Sig O PBS
Sig O PBS (South)
OC 2 GHQ Signals
OC 1 L of C Signals
OC 14 L of C Signals
OC 16 L of C Signals
Wire Officer, 3141 Signal Service Group
OIC Fault Control Bologna
OIC Fault Control Rome
OIC Fault Control Florence
OIC Fault Control Foggia
OIC Fault Control Ancona
OIC Caserta Maintenance Control
OIC Milan Maintenance Control
War Diary (2)
Director U.S.T.

CR 1 CR 3

Declassified E.O. 12356 Section 3.3/NND No. 785015

Appendix "A" to AFHQ Long Lines Liaison
Office letter 413.4/13 dated 30 Jan 46.

CIRCUITS SOUTH OF NAPLES TO BE REROUTED IF FOR ANY REASON THEY ARE LIKELY TO REMAIN OUT OF ORDER FOR MORE THAN TWO HOURS.

DESIGNATION	NO. OF CCTS IN GROUP	NO. OF CIRCUITS TO BE GIVEN PRIORITY	REMARKS
AS POST - RAF BRINDISI	1	1	
BARI A/F - ADB CPS	1	1	
BARI LD - FREEDOM	2	1	
BARI LD - NAPLES LD	5	2	
BARI LD - ROME LD	2	1	One of these cctt is routed via ARIZONA - FOGGIA.

NOTE:- VFT Systems not shown since these are included automatically as priority circuits.

Declassified E.O. 12356 Section 3.3/NND No. 785015

BANK LD - BERN LD

is routed via SECRET
RUSSIA.

NOTE:- VFT System not alarm since these are included automatically as priority circuits.

5752

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS
LOMBARDIA REGION LIAISON GROUP
ALLIED COMMISSION
APO 394

Tel.Milano 12781 — 24 Januery 1946

CMS/ n

SUBJECT : Request for Phantoms on Milan-Lugano cable.

TO : C.S.O. 2 DISTRICT.

1. In order to increase their communications with Switzerland the Azienda di Stato have asked for permission to set up 2 phantoms telephone octs. on Pairs 7,8 and 9,10 of the Milan-Chiasso cable.

2. Can you please issue the necessary authority?

For the Chief Liaison Officer

A.C. HOLLAND
Major R. Signals
Telecoms Liaison Officer
N.W.Italy.

Copy to :
- HEADQUARTERS ALLIED COMMISSION
  att: Communications Sub-Commission
- DIREZIONE GEN. AZIENDA DI STATO -Rome
- INSPECTOR 1st ZONE AZIENDA DI STATO -Milan

CROSS REFS
FILE T.64
Date 29 GEN 1946

Director of Telecoms
of Posts
Cable
Rad
5751

71

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
NO 39
Communications Sub-Commission KTW/vs.

27th Jan 46

T.64.70.CS

SUBJECT. : Safeguarding of equipment at Siena.

TO. : C.S.C., CHQ, CMF.

1. The Italian Government states that, some time ago a number of loading pots for the main cable were taken from the barracks(Caserma) at Siena by the New Zealand Forces and left on the open.

2. Some of them have since been damaged by the stripping of lead from the stubs, and if this continues the coils will all become useless.

3. Apparently there are no other facilities at Siena for storage :

4. It is understood from the Italians that Major Burns took up this matter last October but that no action has resulted.

5. Can anything be done to have the pots replaced under cover at the barracks ?

H.R.SCUDDER
Col.Sig.C.
Director.

5750

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission LGH/ec

T.64.69.CS 24 January, 1946

SUBJECT: Milan - Chiasso - Lugano telephone ccts.

TO : Under-Secretary of State for PP. & TT.

1. The following cable pairs are being made available for civilian use.

Milan - Chiasso cable - phantom pairs 7.8.9.10 for extension to Lugano.

2. Please make the necessary arrangements at Milan for your representative to contact the Chief Signal Office No 2 District and take over the circuits.

H.H.SCUDDER,
Col.Sig.C.
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
AFO 394
Communications Sub-Commission I/Ch/cc

T.64.68.CS 22 January, 1946

SUBJECT: Comms. 61 Area.

TO : C.S.O. 3 District

1. Reference your 1414 x 65 dated 17 Dec. 45 it has been ascertained that TTHQ is providing a new 50 pair overhead cable on the existing pole route Ancona - Falconara.

2. TTHQ HQ states that 2000 meters of the new cable is already available and that orders to commence the work have been issued to the local Direction.

H.F. SOMMER,
Col.Sig.C.
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785015

TRANSLATION BY FIORI

17-1-1946

Ref:S/7.2/50077,

From:Ministry PP.TT.

Subject:T.I.M.O.

Reference is made to letter n.64.56.08 dated 21 Dec.1945 regarding the linkings Falconara-Ancona of Society TIMO to inform youxxxx that we interested the Society for the carrying out of the question and it gave us full assurance with a letter we attacched in copy.

We will inform you as soon as the job will be over.

U.S. of State

Ise have the enclosure translates

T.G.M.

5757

Declassified E.O. 12356 Section 3.3/NND No. 785015

TRANSLATION BY FIORI

Ref:S/7.2/50077 17-1-1946

From:Ministry PP.TT.

Subject:T.I.M.O.

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We will inform you as soon as the job will be over.

U.S. of State

/tes

MINISTERO POSTE E TELECOMUNICAZIONI

SOTTOSEGRETARIATO DI STATO
SEGRETERIA

Roma, 16 gennaio 1946

Prot. N° S/7.2/50077

Risposta al foglio N. .....

del .....

Allegati 1

OGGETTO: T.I.M.O.

Alla COMMISSIONE ALLEATA
Posts and Telecomms. S/C
ROMA

Facciamo riferimento alla lettera n.64.56.CS in data 21 dicembre s.a. relativa ai collegamenti Falconara-Ancona della Società TIMO per comunicarvi che interessata detta Società alla sistemazione della cosa, questa ci ha dato le più ampie assicurazioni con la lettera che alleghiamo in copia.

Lieti di aver potuto chiarire la situazione prospettataci, ci riserviamo di comunicarvi quando la sistemazione stessa sarà stata ultimata.

IL SOTTOSEGRETARIO DI STATO
(M. Pano)

5745

Declassified E.O. 12356 Section 3.3/NND No. 785015

del

Allegati 1

OGGETTO: T.I.M.O.

...sub ard -Siecomms. S/C
ROMA

Facciamo riferimento alla lettera del n.64.56.CS in data 21 dicembre s.c. relativa ai collegamenti Falconara-Ancona della Società TIMO per comunicarvi che interessata detta Società alla sistemazione della cosa, questa ci ha dato le più ampie assicurazioni con la lettera che alleghiamo in copia.

Lieti di aver potuto chiarire la situazione prospettataci, ci riserviamo di comunicarvi quando la sistemazione stessa sarà stata ultimata.

IL SOTTOSEGRETARIO DI STATO
(M. Pano)

Dra...
Dr...
...ems
...al
...s O.
...Postal
...p
...

CROSS REFS.
FILE T.64
5 Fwo.
Date 17 GEN 1946

5745

67

Declassified E.O. 12356 Section 3.3/NND No. 785015

C O P I A

T.I.M.O.

Torino 8 gennaio I946

2328.9/I72/RO/var
Risp.f.S/7/2/34147
del 29-12-945

AL SOTTOSEGRETARIATO DI STATO PER LE PP.TT.
R O M A

OGGETTO/: Ripristino comunicazioni fra Falconara ed Ancona

Ci pregiamo riassumere la situazione delle comunicazioni fra Ancona e Falconara.
Tra le centrali delle due località esiste un cavo di giunzione con conduttori da 7/I0 in parte sotterraneo e per circa 6500 metri aereo su palificazione lungo il litorale. Il tratto aereo é da 50 coppie mentre per la parte sotteranea la potenzialità in coppie era già stata aumentata a I00 in occasione di altri lavori in previsione di future necessità. Per effetto delle oscillazioni e conseguenti screpolature dovute ai venti marini, dei fori provocati da insetti e da pallini da caccia ed infine per i guasti prodotti dalle azioni belliche questo cavo si trova in condizioni poche buone e si rendono necessarie continue riparazioni. Inoltre, in una prima affrettata riparazione effettuata dagli Alleati, sono stati intercalati tratti di cavo di minor potenzialità ed altre caratteristiche. Ciò ha portato a frequenti deficienze dell'esercizio ed il numero di coppie é ora insufficiente alle esigenze dei collegamenti militari locali.
Ci siamo subito preoccupati di sanare la situazione ed intendevamo completare la cosa per tutta la tratta di cavo sotterraneo da I00 coppie 7/I0 opportunamente protetto in speciali canalette con bitume contro le corrosioni - elettrolittiche dovute allo stretto parallelismo con la Ferrovia e la Tramwia elettrificate. Però, per le difficoltà di avere in tempo utile i materiali necessari, ed in particolare il notevole quantitativo di bitume canalette e mattoni, e per il notevole tempo necessario ad interrare, con tutte le dovute cautele contro l'elettrolisi, il cavo sulla strada in parte sconvolta dalla guerra, abbiamo deciso di abbinare per ora al cavo aereo esistente, altro cavo nuovo da 50 coppie 7/I0.
Su questo saranno trasferite le comunicazioni militari mentre provvederemo successivamente al completo risanamento del cavo esistente.
Tanto per l'una che per l'altra soluzione avevamo compreso, nel complesso di cavi ordinati ai costruttori (in sostituzione delle nostre consistenze di magazzino quasi completamente asportate, e per quantitativi ingentissimi, dai tedeschi in ritirata) i cavi occorrenti. Ci saranno consegnati in questi giorni i primi 2000 metri di cavo aereo a 50 coppie 7/I0, cui seguirà fra non molto la rimanenza occorrente. Abbiamo quindi date dispo-

I 3 2 8
Declassified E.O. 12356 Section 3.3/NND No. 785015

conduttori da 7/10 in parte sotterraneo e per circa 6500 metri aereo su palificazione lungo il litorale. Il tratto aereo é da 50 coppie mentre per la parte sotteranea la potenzialità in coppie era già stata aumentata a 100 in occasione di altri lavori in previsione di future necessità. Per effetto delle oscillazioni e conseguenti screpolature dovute ai venti marini, dei fori provocati da insetti e da pallini da caccia ed infine per i guasti prodotti dalle azioni belliche questo cavo si trova in condizioni poche buone e si rendono necessarie continue riparazioni. Inoltre, in una prima affrettata riparazione effettuata dagli Alleati, sono stati intercalati tratti di cavo di minor potenzialità ed altre caratteristiche. Ciò ha portato a frequenti deficienze dell'esercizio ed il numero di coppie é ora insufficiente alle esigenze dei collegamenti militari locali. Ci siamo subito preoccupati di sanare la situazione ed intendevamo completare la cosa per tutta la tratta di cavo sotterraneo da 100 coppie 7/10 opportunamente protetto in speciali canalette con bitume contro le corrosioni - elettrolittiche dovute allo stretto parallelismo con la Ferrovia e la Tramwia elettrificate. Però, per le difficoltà di avere in tempo utile i materiali necessari, ed in particolare il notevole quantitativo di bitume canalette e mattoni, e per il notevole tempo necessario ad interrare, con tutte le dovute cautele contro l'elettrolisi, il cavo sulla strada in parte sconvolta dalla guerra, abbiamo deciso di abbinare per ora al cavo aereo esistente, altro cavo nuovo da 50 coppie 7/10.
Su questo saranno trasferite le comunicazioni militari mentre provvederemo successivamente al completo risanamento del cavo esistente.
Tanto per l'una che per l'altra soluzione avevamo compreso, nel complesso di cavi ordinati ai costruttori (in sostituzione delle nostre consistenze di magazzino quasi completamente asportate, e per quantitativi ingentissimi, dai tedeschi in ritirata) i cavi occorrenti. Ci saranno consegnati in questi giorni i primi 2000 metri di cavo aereo a 50 coppie 7/10, cui seguirà fra non molto la rimanenza occorrente. Abbiamo quindi date disposizioni alla nostra locale Direzione di Esercizio di iniziare senz'altro la posa del nuovo cavo aereo, anche se questa soluzione sia presentata per noi più onerosa, dovendo poi in definitiva per nostre esigenze ritornare alla soluzione sotterranea.

5744

Con perfetta osservanza
Il Direttore Generale F/to: Curà

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

Translation by Sig.na. Ashmore

Turin 8 Jan 1946.

Ref. 2328.9/172/RO/ver. in reply to f.S./7/2/34147 of 29 Dec 1945.

To U.S. OF S.

Subject. Re-activation of Communications between Falconara and Ancona.

We beg to set out the situation regarding the communications between Ancona and Falconara.
Between the exchanges of the two places there exists a junction cable with 7/10 conductors partly underground and about 6500 metres overhead on poles along the coast.
The overhead stretch is 50 pair whilst on the underground part the number of pairs had already been raised to 100 on the occasion of other work in povision for future necessity.
On account of the oscillations and consequent chafing due to the sea winds,on account of holes caused by insects and bullets from sporting guns and finally on account of faults produced by war actions,this cable is not in very good conditions and continual repairs are necessary.Furthermore in the first hurried repairs effected by the Allies stretches of cable of a lower potential have been interposed. This has caused frequent deficiencies in the working and the number of pairs is now insufficient for the local allied needs.We at once interested ourselves to set the situation right and we intended to complete the job along all the stretch with an underground cable of 100 pair 7/10 well protected in special channels by tar against corrosion (electrolittic) due to the close proximity with the electric railway and tramway. However on account of the difficulty of having in time the necessary materials,and in particular the considerable quantity of tar,channels and bricks,and on account of the considereble time necessary to do the burying,with all the necessary precautions against the electrolysis, of the cable on the road which is partly ruined by the war,we have decided to add for the time being to the existing overhead cable,new cable of 50 pair 7/10.
On these will be transferred the military communications whilst we will procede afterwards to the complete re-activation of the existing cable.The necessary cables for both for both these solutions we had included in our oders given to the cable builders(in substitution for our reserves in the warehouse which were carried off in huge quantities by the retreating Germans.) There will be consigned to us in the next few days the first 2000 metres of overhead cable,50 pair 7/10,which will be shortly followed by the outstanding cable. We have therefore given dispositions to our local Direction to definitely start the building of the new overhead ceble,even though this solution is at present a little difficult for us, as we shall definitely be compelled to return to the solution of the undergrond cable in order to solve our own problems.

Dir. Gen

5743

1331

Declassified E.O. 12356 Section 3.3/NND No. 785015

Translation by Sigem. Agl.

Turin 8 Jan 1946.

Ref. 2328.9/172/RO/ver. in reply to f.S./7/2/34147 of 29 Dec 1945.

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Dir. Gen

5742

HEADQUARTERS
LOMBARDIA REGION LIAISON GROUP
ALLIED COMMISSION
APO 394

Tel·Milano 12781

10th January 1946

CMS/7

SUBJECT : Setting up of 11 Phantom ccts. on North Italy U.G. cable network.

TO : HEADQUARTERS ALLIED COMMISSION
att: Communications Sub-Commission ROME

1. Azienda Milan have proposed to Azienda Rome the setting up of 11 phantom ccts. on the State U.G. cable network as follows:

- Milano	- Venice	2	- 4 wire ccts.
- "	- Verona	2	- 4 " "
- "	- Trento	1	- 4 " "
- "	- Bologna	2	- 4 " "
- Bologna--	Turin	1	- 4 " "
- Milan	- Parma	3	- 2 " "

2. A cable ccts. diagram is attached.

3. The ONLY work to be carried out consists of installing a 4+1 Ringer panel at Bologna, the rest of the equipment being ready. This would be done by Azienda Milan.

4. The Turin-Bologna is urgently required by R.I. as a speach circuit linking their head office with their Bologna transmitter.

5. C.S.C. L.of C. Italy will have to give his blessing before work can be started.

For the Chief Liaison Officer

A.C. Holland.

A.C. HOLLAND M.B.E. M.C.
Major R. Signals

Declassified E.O. 12356 Section 3.3/NND No. 785015

CMS/7

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- Bologna	- Turin	1	- 4 " "
- Milan	- Parma	3	- 2 " "

2. A cable ccts. diagram is attached.

3. The only work to be carried out consists of installing a 4+1 Ringer panel at Bologna, the rest of the equipment being ready. This would be done by Azienda Milan.

4. The Turin-Bologna is urgently required by R.I. as a speach circuit linking their head office with their Bologna transmitter.

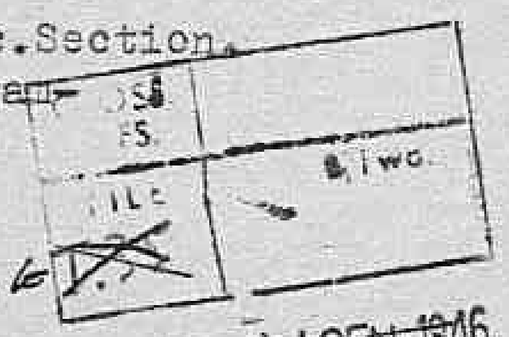
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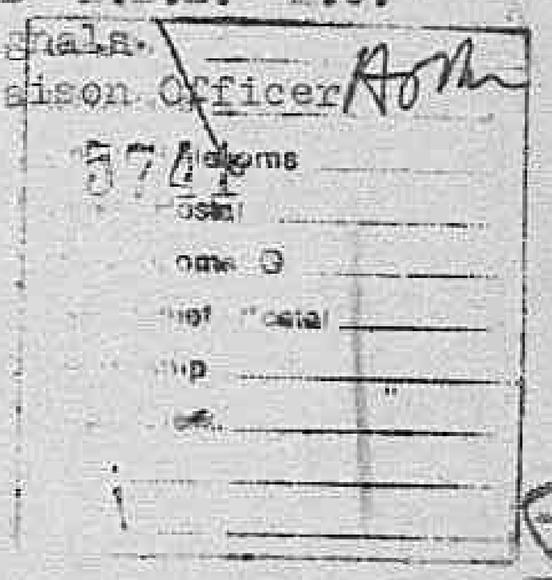
For the Chief Liaison Officer

A.C. Holland.

A.C. HOLLAND M.B.E. M.C.
Major R. Signals.
Telecoms.Liaison Officer
N.W.Italy.

Copy to: C.S.C. 2 District
Major BURNS
Nr.5 Telecoms Spec.Section.
- Minus diagram



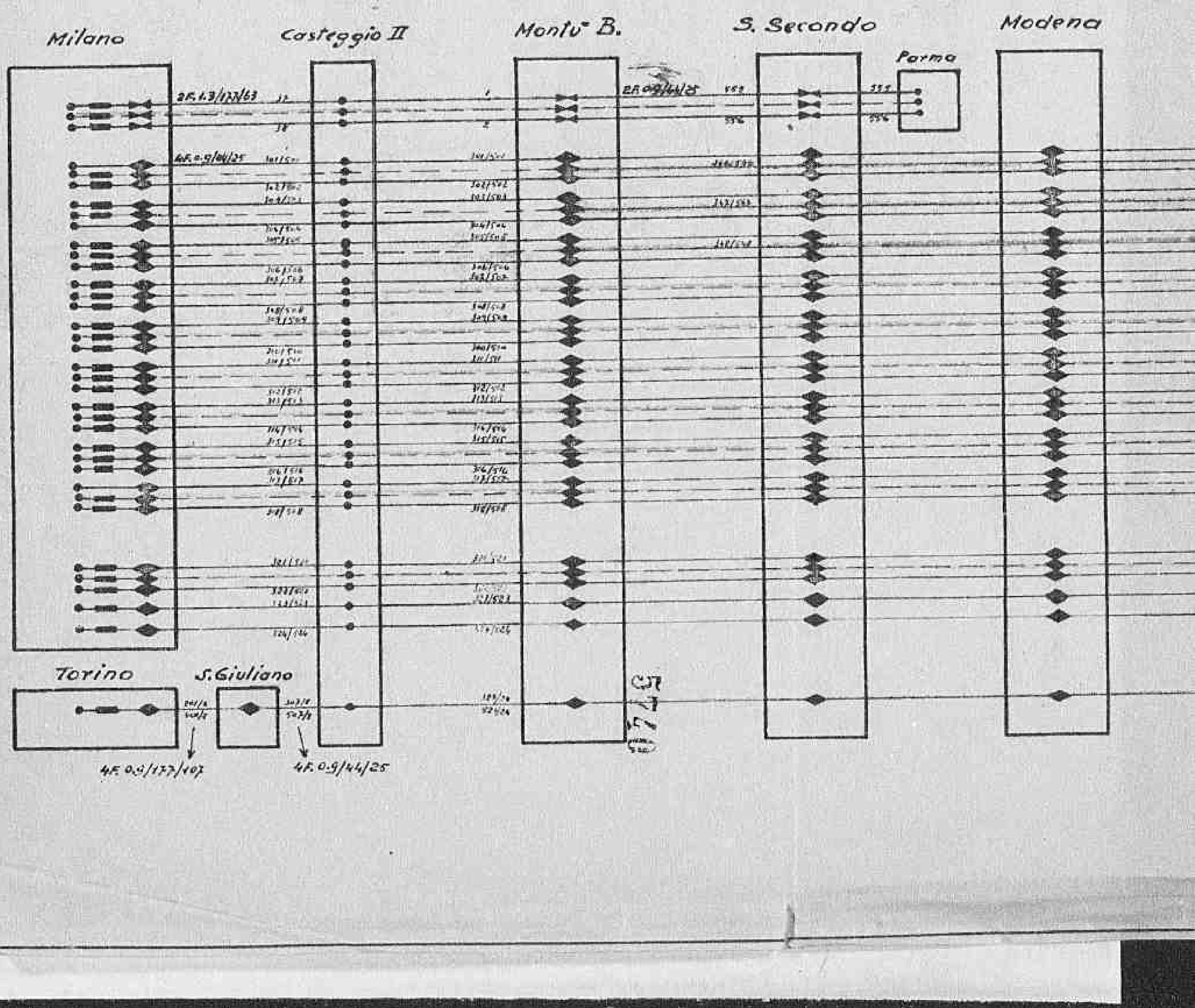


Declassified E.O. 12356 Section 3.3/NND No. 785015

1334

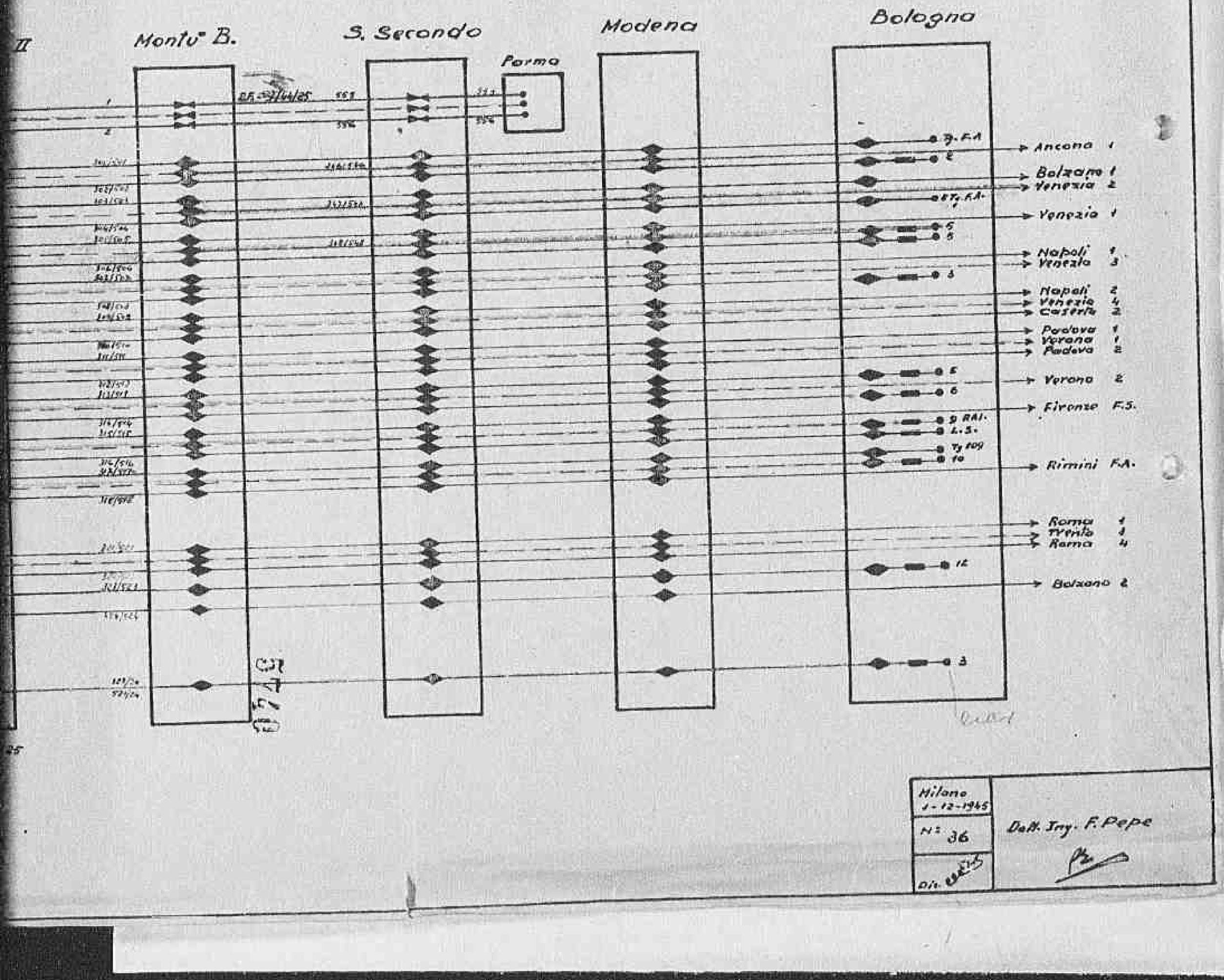
Declassified E.O. 12356 Section 3.3/NND No. 785015

PROGETTO DI NUOVI CIRCUITI TELEFONICI IN CAVO 4F./2F. PER SERVIZI



Declassified E.O. 12356 Section 3.3/NND No. 785015

NOVI CIRCUITI TELEFONICI IN CAVO $\frac{4F.}{2F.}$ PER SERVIZI CIVILI E MILITARI



HEADQUARTERS
LOMBARDIA REGION LIAISON GROUP
ALLIED COMMISSION
APO 394

85

Tel·Milano 12781 10 January 1946

CMS/7

SUBJECT : Reactivation of ccts. on the Milan-Bologna cable.

TO : HEADQUARTERS ALLIED COMMISSION
att: Communications Sub-Commission.

ROME

1. Azienda Milan have applied to Azienda Rome for orders to carry out the following work to be done by SIRTI to reactivate all the remaining ccts. on the Milan-Bologna cable :

(a) Milan repeater Station:
to instal 12 4-wire Repeaters
12 500/20 Ringer panels
12 Hybrids

(b) Monti, San Secondo and Modena Repeater Stations:

to instal 24 -4 wire Repeaters.

(c) Bologna Repeater Station:

To instal 8 - 4 wire repeaters
12 500/20 Ringer Panels
12 Hybrids

2.S.I.R.T.I. has been informed and has ready much if not all the equipment salvaged from the Germans.

3.C.S.O. L.of C. Italy will have to agree before any work can be carried out.

For the Chief Liasion Officer

A. C. Holland.

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. Azienda Milan have applied to Azienda Rome for orders to carry out the following work to be done by SIRTI to reacti vate all the remaining ccts. on the Milan-Bologna cable :

(a) Milan repeater Station:

to instal	12	4-wire Repeaters
	12	500/20 Ringer panels
	12	Hybrids

(b) Montù, San Secondo and Modena Repeater Stations:

to instal 24 -4 wire Repeaters.

(c) Bologna Repeater Station:

To instal	8	- 4 wire repeaters
	12	500/20 Ringer Panels
	12	Hybrids

2.S.I.R.T.I. has been informed and has ready much if not all the equipment salvaged from the Germans.

3.C.S.C. L.of C. Italy will have to agree before any work can be carried out.

For the Chief Liasion Officer

A.C. Holland.

A.C. HOLLAND M.B.E.M.C.
Major R. Signals
Telecoms. Liaison Officer
N.W.Italy.

Copy to : C.S.O. 2 District
Major Burns Nr.5 Telecoms.Special Section

Dir. of Sig.
D/Dir. of Sig.
Chief Engineer
Chief Posts
D.D. Q. Coms (I)
Asst. Chief Engr.
Censorship
Chief Clerk

CIGS
FILE T.64
Date 14 GEN 1946

5739

65

Declassified E.O. 12356 Section 3.3/NND No. 785015

64

Subject : Maintenance of U/G Trunk Cables.

From : CSO L of C ITALY 311. 2/6

To : Director, Communications Sub Comm, AC

Copy to : CSO 2 District
CSO 3 District
SO RAAO
Major BURNS c/o Signal Officer HQ 2 District

1. Will you please instruct the Azienda di Stato and the Concessionary Companies that it is imperative that the Duty Lines Officer at the appropriate Fault Control is advised immediately whenever damage to trunk underground cables is such that it might be attributable to sabotage or theft.

2. The apprehension of the culprits is jeopardised if there is delay in the passing of advice to the DLO who, in turn, advises Field Security.

3. Normally, it should be possible for the cable maintenance party to contact the nearest Repeater Station or Fault Control on nominated speaker pairs.

11 Jan 46
FJDT/BR.

for Brigadier
Chief Signal Officer

Director
D/Director
Chief

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. Will you please instruct the Azienda di Stato and the Concessionary Companies that it is imperative that the Duty Lines Officer at the appropriate Fault Control is advised immediately whenever damage to trunk underground cables is such that it might be attributable to sabotage or theft.

2. The apprehension of the culprits is jeopardised if there is delay in the passing of advice to the DLO who, in turn, advises Field Security.

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11 Jan 46
FJDT/BR.

for Brigadier
Chief Signal Officer

Director
D/Director
Chief
Chief
Asst Chief
Secretary
Asst Chief

CIGS
AGS
FILE
T64
G1 Wo.

Date 12 JAN 1946

5715

Declassified E.O. 12356 Section 3.3/NND No. 785015

1343

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.63.CS 10 January, 1946

SUBJECT: Milano Chiasso Cable.

TO : Under-Secretary of State for PP. & TT.

Milano - Chiasso phantoms 7/8 and 9/10 are spare and are available for your use.

H.H.SCUDDER,
Col.Sig.C.
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.62.CS 10 January, 1946

SUBJECT: Amalfi Coast Cots.

TO : Under-Secretary of State for PP. & TT.

1. With reference to your letter N°. 16098/5.5 of 13 Dec., a military Salerno Amalfi circuit will shortly be handed back to civil use as per instruction from C.S.O. 3 District to O.C., 11 L of C Signal Unit of 7th January 1946.

H.H.SCUDDER,
Col.Sig.C.
Director.

Declassified E.O. 12356 Section 3.3/NND No. 785015

61

INCOMING MESSAGE

Communications

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: SX/25.
Date/Time of Origin JAN 091145 A

Message Centre No: G/7049
Date Time Rec'd: JAN 091630
Precedence: IMPORTANT

FROM: DISTWO
TO : HQ AC
INFO : MILAN MAINT CONTROL

UNCLASSIFIED.

Re 58

Your ref no 30 of 081146. Milan - Cinisello U G Phantoms 7/8 and 9/10 spare and available. Reserved for your use.

AC DIST.

ACTION : COMMUNICATION
INFO : CHIEF COMMISSIONER
· FILE 2
FLOAT

Director
D/Director
Chief Commissioner
Chief Political
H Q Cons Sec
Asst Chief Pol/Mil
Censorship
Chief Clerk

CROSS REFS.
FILE
& fwd.

Date 10 GEN 1946

HEADQUARTERS
JAN 1946
A C

ACT
5725

Declassified E.O. 12356 Section 3.3/NND No. 785015

60

I N C O M I N G M E S S A G E

HEADQUARTERS ALLIED COMMISSION

SX/ 620
051000A

G/6780
JAN 051400A
ROUTINE

FROM: CSO L OF C ITALY

TO : ALCOM DIRECTOR COMMNS SUBCOMMISSION

UNCLASSIFIED

Your 9912 of 04. The cable in question is controlled by CSO 2 district and it is therefore requested that you deal direct with regarding required allocation of CCTS

AC DIST

ACTION: COMMUNICATIONS

INFO: CHIEF COMMISSIONER
FILE 2
FLOAT

CAC/A
FILE
T.84
Date 5-1-46

5724

RESTRICTED

SUBJECT : Telephone Traffic Diagram, Italy.

Fm. : CSO L of C ITALY

To : As per Distribution

311.2/28-4.

29 Dec 45

Forwarded herewith for such distribution as you may require, are copies of Telephone Traffic Diagram No 14, Italy, corrected through 20 Dec 45. The diagram shows the Main Telephone Centrals by exchange names with direct connections between these exchanges, and satellite exchanges served by direct connection to each main exchange.

Brigadier
Chief Signal Officer

: HQ.

DISTRIBUTION :

CSO AFHQ	8 (2 for onward transmission to War Office)
CSO USFA	2
CSO NTA	3
CSO USFET	2
CSO PBS/MMRB	2
CSO 2 Base Sect	12
CSO 3 Base Sect	16
CSO AAI, MTO, Sig Offr, AAF, RAF ITALY	19
Signal Officer RIAD	3
Signal Officer NATOUSA	2
Signal Officer PBS	6
Signal Officer PBS (South)	2
Director Comms Sig-Comm. AG	5
Fleet Signal Comms Officer to	

5723

Declassified E.O. 12356 Section 3.3/NND No. 785015

...ed Aircraft 27 Dec 43. The diagram shows the Main ... Comm Controls by exchange names with direct connections between these exchanges, and satellite exchanges served by direct connection to each main exchange.

Brigadier
Chief Signal Officer

: KL.

DISTRIBUTION :

CSC AFHQ	8 (2 for onward transmission to War Office)
CSO [illegible]	2
CSO MEA	3
CSO [illegible]	2
CSO [illegible]	2
CSO 2 Bn Brigs	12
CSO 1 Bn Depot	18
CSO Al... Sigs(Sy) ... REF ITALY	19
Signal Officer RAAC	5
Signal Officer NAMRD	2
Signal Officer PBS	6
Signal Officer PBS (South)	2
Director Comms Sub-Comm. AC	5
Fleet Signal Comms Officer to C-in-C Med	7
Wire Officer 3rd Signal Service Group	2
OIC Naples LD	2
Sig O. HQ Delta Base Sec	2
Sig O. GS (US) Div	2
CSO ADVANCE	4
OC 2 Base Signals	6
War Diary	2
File	1

5723

Dir/Director
[illegible]
A. A. Comms O.
Asst Chief Engr

CROSS REFS
FILE
Fwd.
T64 T35
Date 8 CE... 1946

59.A

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

MAPS FILMED ON

35MM ROLL

Declassified E.O. 12356 Section 3.3/NND No. 785015

59)

1481)

8 JANUARY 1946

UNCLASSIFIED

HQ AC PARIS ALCOM CITE ACCRN

CSC 2 DISTRICT

30

ITALIAN GOVERNMENT RE UEST USE OF PHANTOM CARLO PAIRS SEVEN EIGHT NINE AND TEN MILAN TO CHIASSO FOR EXTENSION TO LUGANO PD CAN APPROVAL BE GRANTED

T. 5731

PRIORITY

COMMUNICATIONS S/C

Declassified E.O. 12356 Section 3.3/NND No. 785015

GPP

58

HQ CITE ACCOM PARIS

4 JANUARY 1946

CSC L OF G ITALY

9912

UNCLASSIFIED

ITALIAN GOVERNMENT REQUEST USE OF PHANTOM CABLE PAIRS SEVEN EIGHT NINE AND TEN MILAN TO CHIASSO FOR EXTENSION TO LUGANO PD CAN APPROVAL BE GRANTED PD

2 Brit military

FILE T. 64

file

4 GEN 1946

5730

PRIORITY

555

COMMUNICATIONS SUB-COMMISSION

Declassified E.O. 12356 Section 3.3/NND No. 785015

5721

HEAD UARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HHS/ec

T.64.57.CS 21 December, 1945

SUBJECT: Comms - 61 Area

TO : 3 District
Chief Signal Officer

1. Reference is made to your letter of Dec. 17, 1945, ref. 1414 X 85 in which inability of TIMO to obtain 6 Km of 100 pair cable is reported.

2. The Allied Commission has no means of procuring such cable.

3. As it is not known what efforts have been made by TIMO to procure the needed cable or at least substitute cable, the Ministry of Posts and Telecommunications is being requested to investigate.

H.H.SCUDDER,
Col.Sig.C.
Director.

5729

File

Declassified E.O. 12356 Section 3.3/NND No. 785015

(56)

HEADQUARTERS ALLIED COMMISSION
AFO 394
Communications Sub-Commission HHS/ec

T.64.56.CS 21 December, 1945

SUBJECT: T.I.M.O.

TO : Under-Secretary of State for PP. & TT.

1. It is reported that communications between Falconara and Ancona are faulty due to TIMO's inability to obtain 6 km of 100 pair cable.

2. It would be appreciated if you could take this up with TIMO and determine what steps they have taken to try and obtain a replacement for the faulty piece of cable.

3. No more supplies are available from military sources as all such as was available has been turned over to your Administration.

4. Among the cable found in stocks captured from the Germans was there no suitable cable?

H.H.SCUDDER,
Col.Sig.C.
Director.

File

Declassified E.O. 12356 Section 3.3/NND No. 785015

55

Subject: Comms - 61 Area.

3 District
Tel Ext 38
1414 X 85
17 Dec 45.

Director Communications Sub-Commission,
HQ. A.C. ROME.

Copy to:- OC 16 L of C Signals.
OC Ancona Fault Control.

1. The T.I.M.O. cable between Ancona and Falconara is faulty and it is understood the 6 Km of 100 pr cable is required to rectify it.

2. T.I.M.O. Ancona have been unable to procure the necessary cable through their own sources.

3. Of the 100 pairs, 22 are in use by the military for feeding Falconara subscribers into Ancona switchboard.

4. Can the cable be obtained through A.C. please.

H.S. Emlay Capt
Colonel.
Chief Signal Officer.

Director
Deputy Director
Chief Engineer
Chief Signal Officer DRE/SEB.
Asst Chief Postal
Censorship
Chief Clerk

CIRCULATE
FILE T.64
Encl.
21 DEC 1945
Date

57.7

Declassified E.O. 12356 Section 3.3/NND No. 785015

54

HEADQUARTERS ALLIED COMMISSION
AFO 394
Communications Sub-Commission HHS/ec

T.64.54.CS 20 December, 1945

SUBJECT: Modena - Montu Beccaria Cable

TO : Under-Secretary of State for PP. & TT.

1. Reference is made to our letter of November 10, 1945 File T64.44.CS, and attachment thereto.

2. Work as detailed in Appendix A to attachment has now been completed and the only military circuit working on these facilities is:

CIRCUIT	WORKING ON
MEDLOC (Milan-) - RTO Piacenza	Montu Beccaria - Piacenza Pair 353

3. Subject to the condition that existing military circuits are in no way interfered with, control of allocation of circuits on the spur Cables mentioned in attachment to our letter is delegated to you.

H.H.SCUDDER,
Col.Sig.C.
Director.

see 48

File
5726

Declassified E.O. 12356 Section 3.3/NND No. 785015

53

CSO I OF O

9368 19 DECEMBER 45 NOTEXXX

UNCLASSIFIED FD

REQUEST ALLOCATION TO CIVIL USE OF ANY CIRCUITS IN CABLES LINKING SALERNO CMA MAJORI CMA MINORI CMA AMTRANI CMA AMALFI

PARTS TO CSO I OF O FROM HQ ALCOM CITE ACCOM PARTS NOT NECESSARY FOR MILITARY NEEDS

COMMUNICATIONS S/O

333

5725

F. 64

1354

Declassified E.O. 12356 Section 3.3/NND No. 785015

Mod. 167

52

Roma 13 DIC 1945 194

Ministero delle Poste
e delle Telecomunicazioni

Gabinetto del Ministro

Ufficio
Prot. N° 16098 Div. 5.5 Fasc.
Allegati

Commissione Alleata
Sottocommissione Comunicazioni - Via Veneto
ROMA

Risposta al foglio N°

OGGETTO: Comunicazioni telefoniche sulla Costiera Amalfitana -

Rif. 31.A 46A

Con riferimento alla lettera di questo Ministero n.5859.5.5 del 17.10 e della precedente del 24 agosto, si prega di voler favorire una risposta in merito al quesito circa la restituzione al traffico civile di qualcuno dei circuiti convogliati nei due cavi che collegano Salerno ai comuni della Costiera Amalfitana (Maiori, Minori, Astrani, Amalfi, ecc).

IL MINISTRO

Director
Deputy Director
Asst. Director
Chief Postal
A. D. C. Coms O
Asst. Chief Postal
Censorship
Chief Clerk

CIVCS
T-64
Date 17 DIC 1945

5724

Declassified E.O. 12356 Section 3.3/NND No. 785015

51

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HHS/ec

T.64.51.CS 8 December, 1945

SUBJECT: Circuit Allocation Naples - Bari

TO : Under-Secretary of State for IT. & TT.

1. 2 four wire phantoms in the Naples Bari underground cable are now available. These circuits are the audio circuits of 1 plus 1 systems now used by Allied Military.

2. Please inform us of what allocation you wish made of these circuits.

H.H.SCUDDER,
Col.Sig.C.
Director.

5723

Declassified E.O. 12356 Section 3.3/NND No. 785015

Communication

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: SX-582

Date/Time of Origin: DEC 070942 A

Message Centre No: C/5089

Date Time Rec'd: 071415 dec

Precedence: ROUTINE

FROM: CSC L OF C ITALY FOR GOMS SUB GOMS

TO : ALCOM

50

UNCLASSIFIED.

Can offer civil 2 4-wire phantoms in UG Naples-Bari. These circuits audios of 1 PLUS 1 CT systems. PSE give required allocation.

AC DIST.

ACTION : COMMUNICATIONS SC

INFO : CHIEF COMMISSIONER

FILE 2

FLOAT

Director
D/Director
Chief Personnel
Chief Ops
A & Q Comm O
Asst Chief Poste
Censorship
Chief Clerk

Chief Sec
File T.64
Fwd.
Date 7 DIC. 1945

5722

1357

Declassified E.O. 12356 Section 3.3/NND No. 785015

49

TRANSLATION BY SELAN

27th Nov 1945

Ref. : none.

SUBJECT. : San Remo-Bordighera-Ventimiglia UG cable.

With reference to your T.64.47.C9 of 19th inst., we beg to inform you that the Sirti, with which we are dealing for the re-starting of the work relative to the equipment in subject, are not in a position to finish the job by this year, as it is your wish, because they have to complete the construction of several installations and equipment previously ordered, which were temporarily interrupted so as to give priority to military work.

According to Sirti, the completion of the installation is forecasted within 5 months, providing that the supply of the needed stores be effectuated during the second month.

We beg therefor to inform you that this question does not appear to be of an extreme urgency for us, because in the various telephone centres of the Distretto of San Remo, such as Bordighera, Ventimiglia, Arma di Taggia etc., the respective urban networks are still in course of reactivation, as well as the work of repairing and mounting of the various exchanges and automatic switchboards damaged by war causes is still going on.

At the present, the following centres are linked up with the San Remo Interurban Exchange:

BORDIGHERA, TAGGIA, OSPEDALETTI, VEREZZO, VENTIMIGLIA, ARMA, COLDIRODI, POGGIO, S.ROMOLO, S.GIACOMO.

whilst the remaining, of a secondary importance, will be restored accordingly with the progfess of the reconstruction work and with the materials and means at our disposal.

According to the present agreements, the completion of the work on the cable in subject would be forecasted within the month of April of next year. Having although in view the steps taken by the AC to urge this matter, we will take an action at the Sirti so as to reduce the time necessary to the minimum.

We reserve to take this matter up again.

Yours truly

TETI

5721

Director
D/Director
Chief Telegraphs
Chief Posts
Chief Engineer
Asst. Chief Postal
Cashier
Chief Clerk

FILE T. 64

29 NOV. 1945
Date

13581

Declassified E.O. 12356 Section 3.3/NND No. 785015

TRANSLATION BY SELAN

29th Nov 1945

Ref. : none.

SUBJECT. : San Remo-Bordighera-Ventimiglia UG cable.

With reference to your T.64.47.CS of 19th inst., we beg to inform you that the Sirti, with which we are dealing for the re-starting of the work relative to the equipment in subject, are not in a position to finish the job by this year, as it is your wish, because they have to complete the construction of several installations and equipment previously ordered, which were temporarily interrupted so as to give priority to military work.

According to Sirti, the completion of the installation is forecasted within 5 months, providing that the supply of the needed stores be effectuated during the second month.

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We reserve to take this matter up again.

Yours truly

TETI

SOCIETÀ TELEFONICA TIRRENA

SOCIETÀ PER AZIONI CON SEDE IN FIRENZE - DIREZIONE GENERALE IN ROMA
CAPITALE L. 300.000.000 INTERAMENTE VERSATO
CONCESSIONARIA DELLE RETI LAZIO-TOSCANA-LIGURIA-SARDEGNA-STATO DELLA CITTÀ DEL VATICANO

DIREZIONE GENERALE

UFFICIO: Serv. Inter. Zm/c
(DA CITARE NELLA RISPOSTA)

OGGETTO: Cavo Sanremo=Bordighera=
Ventimiglia

Rec'd.	
FILE	R/Fwd
Date	29 NOV 945

O/Director
Cmd't Transm.
Chief Postal
H Q. Comm Z.
On. Headquarters Allied Commission
Censorship
A P O 394
Chief Clerk.
Communications Sub-Commission
R O M A

ROMA
LUNGOTEVERE MARZIO, 11
TELEFONO 0-56

27 NOV 1945

Con riferimento alla nota in data 19 u.s. n. T.64.47. G.S. ci pregiamo comunicare che la "Sirti", con la quale siamo in trattative per la ripresa dei lavori inerenti all'impianto di cui all'oggetto non è in grado di portarli a termine entro l'anno, come sarebbe desiderio di cotesta On. Commissione, poichè essa dovrà completare la costruzione delle varie apparecchiature a suo tempo ordinate, che venne sospesa per dare la precedenza a forniture militari.

Secondo quanto ci ha comunicato la "Sirti" stessa il completamento dell'impianto è previsto entro cinque mesi purchè l'approvvigionamento dei materiali ancora occorrenti possa avvenire entro il secondo mese.

Ci permettiamo comunque comunicare che la questione non riveste per noi un carattere di particolare urgenza, poichè

CASELLA POSTALE 1046 - TELEGRAMMI: TETI, UTCC FIRENZE N. 19508 ROMA N. 29530

Declassified E.O. 12356 Section 3.3/NND No. 785015

27 NOV 1945

ROMA
LUNGOTEVERE MARZIO 11
TELEFONO 0-56

Con riferimento alla nota in data 19 u.s. n. T.64.47. G.S. ci pregiamo comunicare che la "Sirti", con la quale siamo in trattative per la ripresa dei lavori inerenti all'impianto di cui all'oggetto non è in grado di portarli a termine entro l'anno, come sarebbe desiderio di cotesta On. Commissione, poichè essa dovrà completare la costruzione delle varie apparecchiature a suo tempo ordinate, che venne sospesa per dare la precedenza a forniture militari.

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Ci permettiamo comunque comunicare che la questione non riveste per noi un carattere di particolare urgenza poichè nei vari centri telefonici del Distretto di Sanremo, come Bordighera, Ventimiglia, Arma di Taggia ecc. sono ancora in corso di ripristino le rispettive reti urbane e i lavori di riparazione e montaggio delle varie centrali e centralini automatici danneggiati per azioni belliche.

5719

CASELLA POSTALE 1049 - TELEGRAMMI "TETI" UFC FIRENZE N. 10006 - ROMA N. 29630

Declassified E.O. 12356 Section 3.3/NND No. 785015

SOCIETÀ TELEFONICA TIRRENA
Direzione Generale

N. 2

Data, _____

Destinatario: _____

Attualmente sono collegati alla centrale interurbana di Sanremo i seguenti centri:

Bordighera	Taggia
Ospedaletti	Verezzo
Ventimiglia	Arma
Coldirodi	Poggio
S.Romolo	S.Giacomo

mentre i rimanenti, di secondaria importanza, saranno riattivati col progredire dei lavori di ricostruzione compatibilmente con i materiali e i mezzi di cui disponiamo.

Allo stato attuale delle trattative il completamento dei lavori del cavo in oggetto sarebbe previsto entro il mese di Aprile del prossimo anno. Date però le sollecitazioni di co= testa On. Commissione andiamo ad interessare la "Sirti" stessa perchè sia ridotto il più possibile tale termine di consegna.

Riservandoci pertanto di tornare sull'argomento porgia= mo i nostri distinti ossequi.

SOCIETÀ TELEFONICA TIRRENA
IL DIRETTORE GENERALE

57.8

Declassified E.O. 12356 Section 3.3/NND No. 785015

Bordighera	[illegible]
Ospedaletti	Verezzo
Ventimiglia	Arma
Coldirodi	Poggio
S.Romolo	S.Giacomo

mentre i rimanenti, di secondaria importanza, saranno riattivati col progredire dei lavori di ricostruzione compatibilmente con i materiali e i mezzi di cui disponiamo.

Allo stato attuale delle trattative il completamento dei lavori del cavo in oggetto sarebbe previsto entro il mese di Aprile del prossimo anno. Date però le sollecitazioni di co= testa On. Commissione andiamo ad interessare la "Sirti" stessa perchè sia ridotto il più possibile tale termine di consegna.

Riservandoci pertanto di tornare sull'argomento porgia= mo i nostri distinti ossequi.

SOCIETÀ TELEFONICA TIRRENA
IL DIRETTORE GENERALE

5718

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

T 35 48

Subject :- ALLOCATION OF SPUR CABLES MODENA - MONTU BECCARIA.

311.2/6.

From : CSO L OFC ITALY.

To : DIRECTOR, COMMS SUB-COMMISSION, H.Q., A.C.

see 43

Further to this office letter 311.2/6 dated 7 Nov 45.

1. Work as detailed in Appendix 'A' to the a/m letter has now been completed.

2. The only military circuit working on these facilities is detailed below :-

Circuit	Working on
MEDLOC (MILAN) - RTO PIACENZA	Montu Beccaria - Piacenza Pair No 353

19 Nov 45.
FRT/GCRB.

F.R. Yeo. Capt
for Brigadier,
Chief Signal Officer.

CROSS REFS.	
FILE T.64	D/Fwd.

Date

Director
D/Director
Chief Telecoms
Chief Postal
Dep C. Coms O.
Asst Chief Postal
Censorship
Chief Clerk.

57.7

see 54

Declassified E.O. 12356 Section 3.3/NND No. 785015

47

HEAD UARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.47.CS 19 November, 1945

SUBJECT: Cable San Remo - Bordighera - Ventimiglia.

TO : T.E.T.I., Lungotevere Marzio, 11 ROME

1. Please state the position now of the repairs to the above cable.

2. It is assumed that the cable will be completed before the end of this year.

H.H.SCUDDER,
Col.Sig.C.
Director.

See 49

57-6

1361

Declassified E.O. 12356 Section 3.3/NND No. 785015

PVC/BD

47

47.A

HEADQUARTERS
PIEMONTE REGION
ALLIED MILITARY GOVERNMENT
COMMUNICATIONS DIVISION

24th. Oct. 1945

PR/COMMUN/

SUBJECT : Cable San Remo - Bordighera - Ventimiglia

TO : Director Communications S/C Allied Commission

FROM : Communications Officer

1) - Please see the enclosed report from Lt. Calda.

2) - Can some pressure be brought to bear on TETI and SIRTI at Rome to get on with this job please?

Director
D/Director
Chief Telecoms
Chief Posts
H Q Coms O
Asst Chief Posts
Censorship
Chief Clerk

FILE 1.Bde

Fwd.

Date 25 OCT. 1945

P.V. COLLYER Capt.
Regional
Communications Officer

575

HEADQUARTERS
ALLIED MILITARY GOVERNMENT
LIGURIA REGION
APO 394

OFFICE OF REGIONAL ENGINEER

Genoa, 19 October 1945

Ref./LIG./P.W.U./700 B

Subject : Cable - San Remo - Bordighera - Ventimiglia.

To : Capt. P.V. Collyer - Regional Communications Officer - Piemonte Region H.Qs.

The cable San Remo - Ventimiglia - Bordighera runs overhead from San Remo to Bordighera and underground from Bordighera to Ventimiglia, the wires are made of allumin¥um.
Actually the cable is damaged in two places (locality Madonna della ¤uota) between San Remo and Bordighera but a few days work will be sufficient to repair it.
On the stretch between Bordighera and Ventimiglia 500 meters of cable are missing at the railway crossing of Ponte Nerwia.
The loading of the cable is still to be done and all the loading coils - except 3 missing - are at Bordighera.
The work should be done by S.I.R.T.I. which has been al= ready contacted by T.E.T.I. General Direction of Rome.
It is understood that T.E.T.I. officials in Rome are still dealing with S.I.R.T.I. but no news came thru since about three months. It looks like T.E.T.I. being trying to waste time and delay the work.
The repair of the cable extremely important as it will largely improve the existing connections between Bordighera (small town) and San Remo (35.000- inhabitants town pratically the capital of West Riviera) giving in the meantime a more valuable use to the auto - exchange being installed at Bordighera.
In the near future the a/m cable could also be used for connecting the French with Italian Riviera.
It would be very useful if T.E.T.I. General Direction could be contacted by AC HQs as T.E.T.I. officials in

Declassified E.O. 12356 Section 3.3/NND No. 785015

Actually the cable is damaged in two places (locality Madonna della Nuota) between San Remo and Bordighera but a few days work will be sufficient to repair it.
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In the near future the a/m cable could also be used for connecting the French with Italian Riviera.
It would be very useful if T.E.T.I. General Direction could be contacted by AC. HQs. as T.E.T.I.Officials in Genova claim S.I.R.T.I. being waiting orders from Rome to start the work.

5714

J.A.CALDA
Lt.(j.g.) RIN
Telecomms Officer.

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

TRANLSATION SE/LAN

REF.: 5859/5.5 17th October

SUBJECT: Telephone communications along the Amalfi coast.

45A

U R G E N T

see T.35 part 7

On the 24th August with letter No 10833/5.5 you were kindly requested to examine the possibility of handing over to civil traffic some of the circuits channelled in the two cables which link Salerno with the communes of the Amalfi coast (Majori, Minori, Atrani, Amalfi)

Since no reply has been received up to now, will you please let us know some information on this matter.

THE MINISTER

52

Director
D/Director
Chief Telecoms
Chief Postal
A Q Comms O
Asst Chief Postal
Censorship
Chief Clerk

CIGS. MMFS
FILE T.35 B/fwd. 5713
Date 22 OTT. 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

TRANLSATI[redacted]Y SELAN

REF.: 5859/5.5 17th October

SUBJECT: Telephone communications along the Amalfi coast.

URGENT

On the 24th August with letter No 10833/5.5 you were kindly requested to examine the possibility of handing over to civil traffic some of the circuits channelled in the two cables which link Salerno with the communes of the Amalfi coast (Majori, Minori, Atrani, Amalfi)

Since no reply has been received up to now, will you please let us know some information on this matter.

THE MINISTER

57 2

1370

Declassified E.O. 12356 Section 3.3/NND No. 785015

Mod. 167

Roma 17 OTT. 1945 1946 72

Ministero delle Poste e delle Telecomunicazioni

GABINETTO DEL MINISTRO

Servizio Per Le

Pel N. 5859/5.5

Allegato

Alla COMMISSIONE ALLEATA Sottocommissione Comunicazioni - V. Veneto=ROMA=

Risposta al f.° N.

del

OGGETTO Comunicazioni telefoniche sulla costiera Amalfitana. =

= U R G E =

In data 24 agosto con lettera N. 10833/5.5 fu chiesta a codesta Commissione Alleata Sottocommissione Comunicazioni a voler esaminare la possibilità di restituzione al traffico civile di qualcuno dei circuiti convogliati nei due cavi che collegano Salerno ai comuni della Costiera Amalfitana (Majori, Minori, Atrani, Amalfi, ecc.).

Poichè a tutt'oggi nessuna risposta è pervenuta al riguardo si prega la cortesia di codesta Commissione di dare qualche notizia al riguardo.

Director	
D/Director	
Chief Telecoms	
Chief Postal	
H Q Comm O	
Asst Chief Postal	
Censorship	
Chief Clerk	

IL MINISTRO

FILE	B/Fwd.
T.35	

D.to 19 OTT. 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

46

CSO L CP C

3472 16 NOV 1945 TRINITY

UNCLASSIFIED FD

REFERENCE YOUR SUGAR XRAY FIVE TWO FIVE OF NINE NOV FD

PAREN TO CSO L CP C FROM NO ALCOA CITE ACHON PARTY

AGREE ESTABLISH CIVIL CIRCUIT SALERNO TO BALK CONSTITRA

SWITCHBOARD

T.64

57-0

COMMUNICATIONS S/C

555

COMMUNICATIONS

Mod. 9-bis (A. T.)

10 NOV 1945 19 45

POSTE E DELLE TELECOMUNICAZIONI

MINISTERO DELLE COMUNICAZIONI

AZIENDA DI STATO PER I SERVIZI TELEFONICI

ISPETTORATO REPARTO II ZONA UFFICIO CAVI

Alla Commissione Alleata
Sottocommissione Comunicazioni
Roma

RISPOSTA AL N. T.64.40 CS

PROT. N. 992229/2030 ALLEGATI

DEL 23/10/45

OGGETTO: Ripristino cavo nella Sezione Vico-Tiriolo

In relazione alla nota sopradistinta si par=
tecipa che lo scrivente sarà prossimamente a Milano
e sarà lieto di trattare col Magg. Burns l'argomento
di cui all'oggetto. -

IL DIRETTORE DELL'AZIENDA

Director
D/Director
Chief Telecoms
Chief Posts

40

5609

Declassified E.O. 12356 Section 3.3/NND No. 785015

OGGETTO: Ripristino cavo nella Sezione Vico-[illegible]

9

In relazione alla nota sopradistinta si par=
tecipa che lo scrivente sarà prossimamente a Milano
e sarà lieto di trattare col Magg. Burns l'argomento
di cui all'oggetto. -

IL DIRETTORE DELL'AZIENDA

V. Bitetto

sec 40

Director	
D/Director	
Chief Telecoms	
Chief Posts	
[illegible] Coms O	
Asst Chief Posts	
Censorship	
Chief Clerk	

CROSS REFS	5709
FILE T64	R. I wd.

Date 13 NOV. 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

44

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.44.CS 10 November, 1945

SUBJECT: Modena - Monte Beccaria Cable

TO : Under-Secretary of State for PT. & TT.

1. Attached is a copy of a Memo and of a diagram which may be of interest to you.

H.H.SCUDDER,
Col.Sig.C.
Director.

Enclosures: Memo of 7 Nov.
Diagram.

see 43

5708

Declassified E.O. 12356 Section 3.3/NND No. 785015

(Copy)

SUBJECT: Allocation of Spur Cables
MODENA - MONTU BECCARIA

From: CSO L of C ITALY 311.2/6

To : Director
Comms Sub-Commission
HQ AC

1. In order to make available the first 48 quads for long distance circuits between MODENA and MONTU BECCARIA (i.e. quads 301/501 - 348/548), arrangements are being made to transfer the spur cable circuits to REGGIO, PARMA, FIDENZA and PIACENZA from pairs 337/537 - 340/540 to pairs detailed below:-

REGGIO EMILIA PARMA PIACENZA	4quads cut	prs	353 - 356 553 - 556
FIDENZA	3 quads cut	prs	353 - 356 555 - 556

Appendix "A" attached illustrates the revised distribution of pairs.

2. On completion of this work control of allocation of circuits on these spur cables will be delegated to you, subject to the condition that existing military circuits are in no way interfered with.

3. Completion of work on the spur cables will be notified to you as soon as possible together with details of existing military circuits.

5767

Brigadier,
Chief Signal Officer.

Declassified E.O. 12356 Section 3.3/NND No. 785015

143

SUBJECT : Allocation of Spur Cables
MODENA - MONTU BECCARIA

From : CSG L of C ITALY

311.2/6

To : Director
Comms Sub-Commission
HQ AC

7 Nov 45

1. In order to make available the first 48 quads for long distance circuits between MODENA and MONTU BECCARIA (i.e. quads 301/501 - 348/548), arrangements are being made to transfer the spur cable circuits to REGGIO, PARMA, FIDENZA and PIACENZA from pairs 337/537 - 340/540 to pairs detailed below:-

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3. Completion of work on the spur cables will be notified to you as soon as possible together with details of existing military circuits.

Director
D/Director
Chief Engineers
Chief Plans
A/D Comms O
Asst Chief Plans
Controller
Chief Clerk
FRT : Jmc.

CRO
REF
FILE T.64
Rtd.
Date 9 NOV 1945

H. Yew Capt
for Brigadier,
Chief Signal Officer

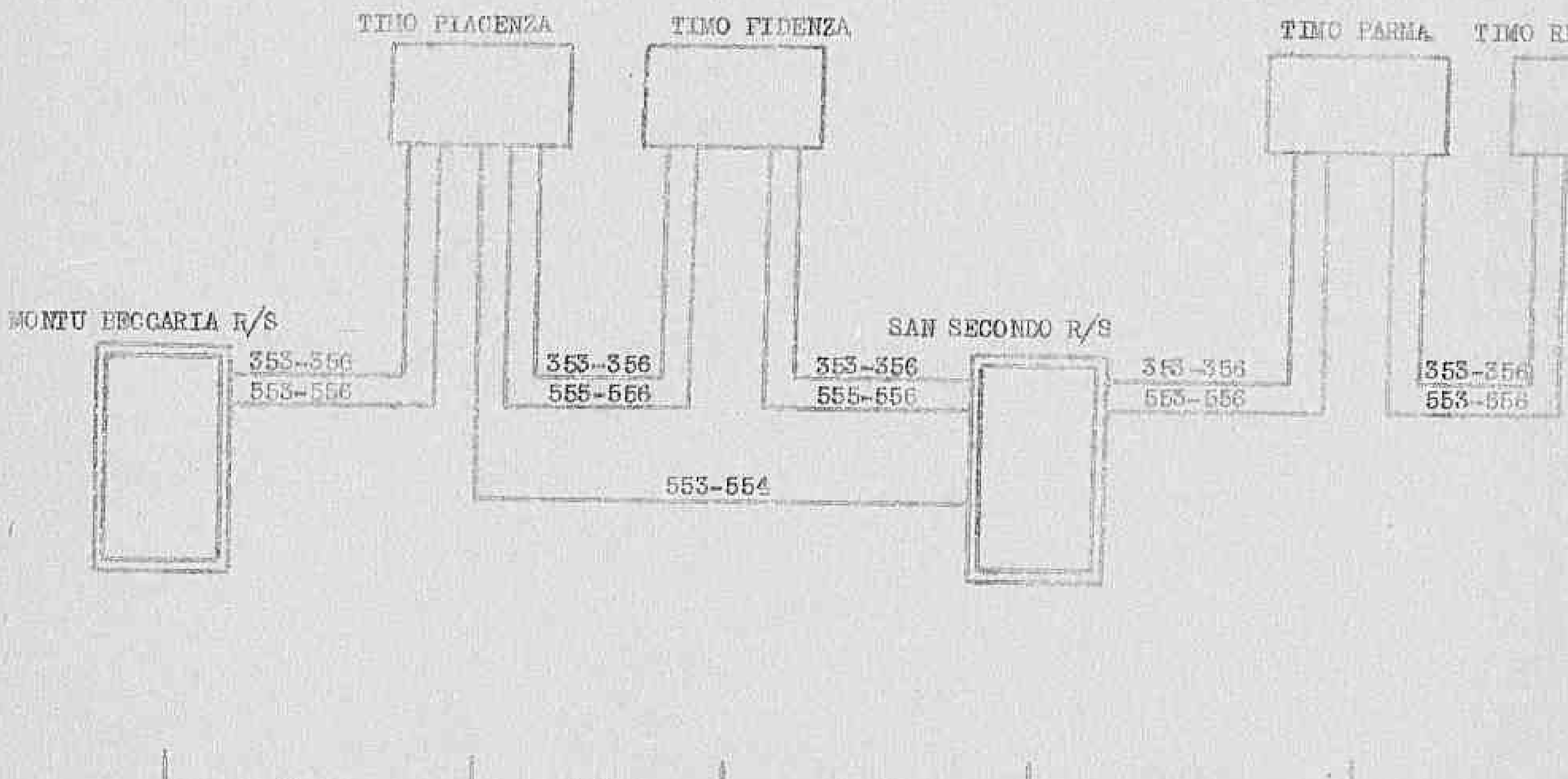
5706

44

Declassified E.O. 12356 Section 3.3/NND No. 785015

APPENDIX
Le
Da

REVISED DISTRIBUTION OF CABLE PAIRS MODENA - MONTU BECCARIA



NOTE 1: LENGTHS AND SIZE OF SPUR CABLES AS FOLLOWS:-

PIACENZA	12 QUADS	1.5	KM.
FIDENZA	6 QUADS	15	KM.
PARMA	14 QUADS	11	KM.
REGGIO	8 QUADS	10	KM.

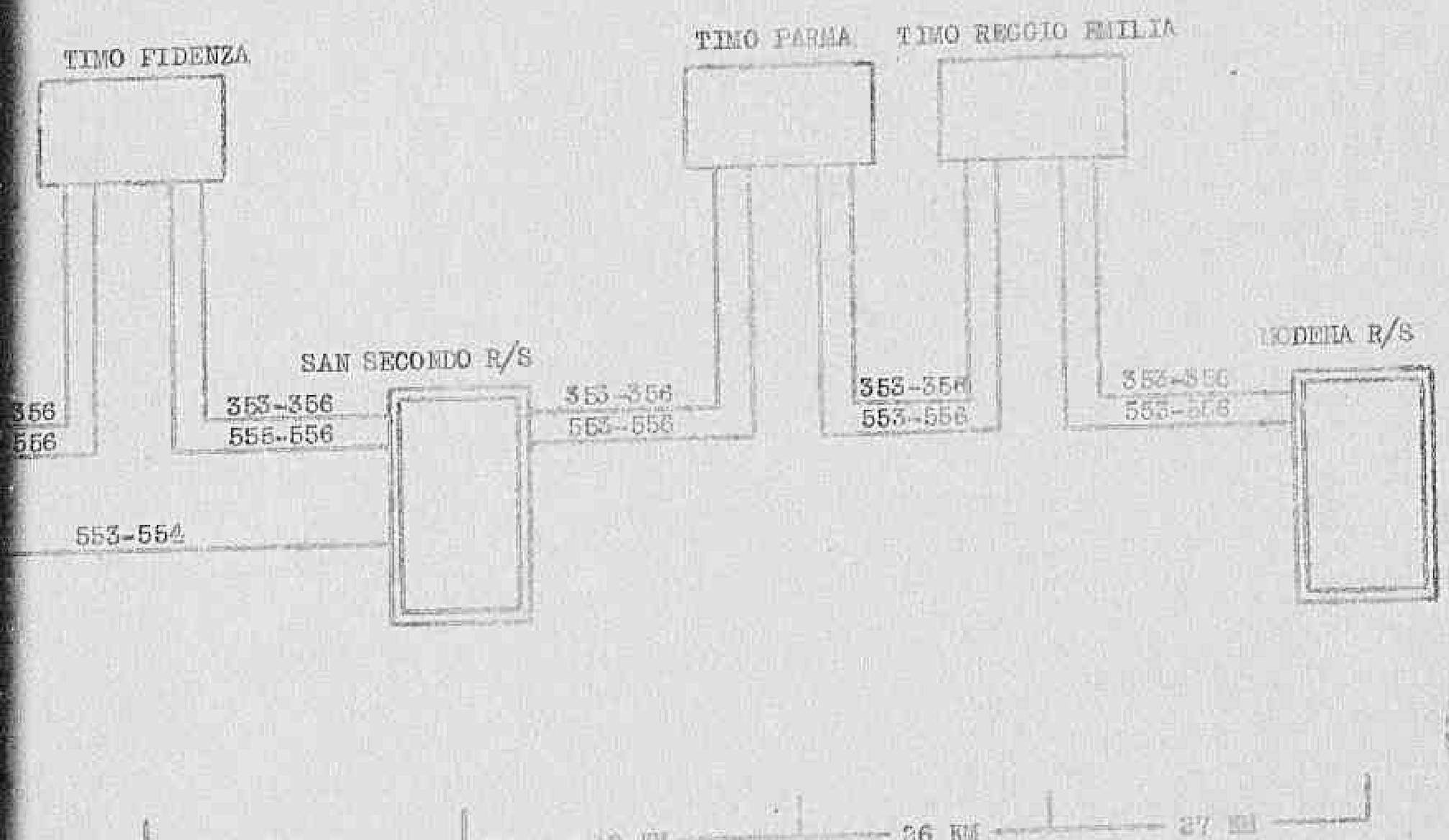
NOTE 2: THE CALCULATED VALUES O

MODENA	---	REGGIO
REGGIO	---	PARMA
PARMA	---	FIDENZA
FIDENZA	---	PIACENZ
PIACENZA	---	M.BECCAR

Declassified E.O. 12356 Section 3.3/NND No. 785015

APPENDIX 'A' to CSO L of C ITALY
Letter 311.2/G
Dated 7 Nov 45.

RS MODENA - MONTU BECCARIA



1 KM — 14 KM — 19 KM — 26 KM — 37 KM

ABLES AS FOLLOWS:-

QUADS --- 1.5 KM.
QUADS --- 13 KM.
QUADS --- 11 KM.
QUADS --- 10 KM.

NOTE 2: THE CALCULATED VALUES OF ATTENUATION ARE AS FOLLOWS:-

MODENA --- REGGIO --- 10db.
REGGIO --- PARMA --- 15db.
PARMA --- FIDENZA --- 15db.
FIDENZA --- PIACENZA --- 13db.
PIACENZA --- M. BECCARIA --- 10db.

Declassified E.O. 12356 Section 3.3/NND No. 785015

Communications

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: SX 525
Date/Time of Origin: NOV 9/1130 A

Message Centre No: G/3240
Date Time Rec'd: NOV 9/1300 A
Precedence: ROUTINE

FROM: CSO L OF C ITALY

TO : AICOM FOR DIRECTOR COMMS SUBCOMMISSION AND CSO: INFO DIST 3.

UNCLASSIFIED

Can allocate one U/G cable CCT between SALERNO and ATENA for civil. Understand there is civil exhange at SALACONSILINA near ATENA. Suggest civil CCT be established SALERNO CIVIL SALA CONSILINA CIVIL. Please signal confirmation or otherwise. CCT available after 15 November 45.

DIST

ACTION — COMMS S/C
INFO — CHIEF COMMISSIONER
FILE (2)
FLOAT

Director
D/Director
Chief Telecomms
Chief Posts
H Q Comm O
Asst Chief Posts
Censorship
Chief Clerk.

ACTION

5704

C I S
FILE T.64
D/Two.
9 NOV. 1945
Date

Declassified E.O. 12356 Section 3.3/NND No. 785015

41

Subject:- Florence - Bologna Cable.

311.2/6.

From:- CSO L of C Italy.

To :- Director, Comms. Sub-Commission, A.C.

See 39

1. Reference your letter T.64.39.CS dated 22nd October 45. The route in question is being surveyed and necessary arrangements for the burying of the cable will be made by the No. 1 U/G Cable Coy.

28th October 45.
FEL/EMF.

Brigadier,
Chief Signal Officer.

Director
Dy Director
Chief Engineer
Chief Postal
Cy O Comms O
Asst Chief Postal
Comdr Ship
Chief Clerk.

C.C.S.A. FEFS. 5703

FILE T.64 B/F Wed.

Date 29 OCT. 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

58

Repeater Station Engineering Instruction No. 19
Italian State U.G. Cable Network
Lojano Repeater Station

Amendment No. 1

Delete Heading - Repeater Station Engineering Instruction No. 19
Substitute New Heading-Repeater Station Engineering Instruction No.21

B. S. Burns Capt.
B.S. BURNS, CAPT.,
R. Signals
No. 1 Telecomm. Spec. Sec.

Copies to: CRO 2 of 2 Italy
CRO II District
Director, Communication
(Subcommission No. 40
Sirtl, Milan (4 copies)
OC, No. 1 UG Cable Coy., R.Signals
OC 62 Line Section
OC 137 TE Section
War Diary (2)
TS 42/17

5702

SUBJECT. U.G. CABLE RECONSTRUCTION AND MAINTENANCE
OPERATIONAL CONTROL.

51

C.S.O. L OF C ITALY.

I have today (October Ist I945) handed over to Capt B.S.BURNS, ROYAL SIGNALS all Records and DOCUMENTS relating to the Military Reconstruction and Maintenance of the Italian U.G.Cable Network.

In accordance with the arrangements made during our conversation of 24th September I945, I have informed Capt Burns that the undermentioned serials will remain under the operational control of C.S.O. L of C Italy and that this control will be exercised through Capt Burns.

(A) No I U.G.Cable Coy R.SIGNALS (CADRE)
(B) 62 Line Section.
(C) I57 Technical Equipment Section.
(D) Military Operations of the S.I.R.T.I.

G.A.KEITH
Lt Col R.SIGNALS.

Milano
October Ist I945.

Copy to Director Communications Sub Commission H.Q. A.C.
S.I.R.T.I. Milano.
OC No I U.G.Cable Coy R.SIGNALS/
OC 62 Line Section R.SIGNALS.
OC 157N T/E Section R.SIGNALS.

5701

Declassified E.O. 12356 Section 3.3/NND No. 785015

under the operational control of C.S.O. [illegible]
and that this control will be exercised through Capt Burns.

(A) No I U.G.Cable Coy R.SIGNALS (CADRE)
(B) 62 Line Section.
(C) I57 Technical Equipment Section.
(D) Military Operations of the S.I.R.T.I.

G.A.KEITH
Lt Col R.SIGNALS.

Milano
October Ist I945.

Copy to Director Communications Sub Commission H.Q. A.C.
S.I.R.T.I. Milano.
OC No I U.G.Cable Coy R.SIGNALS/
OC 62 Line Section R.SIGNALS.
OC I57th T/E Section R.SIGNALS.

5701

Director
[illegible]
Chief Telecoms
Chief Posts
Asst Comms O
Asst Chief Posts
Censorship
Chief Clerk.

CROSS REFS.
FILE T.63
B/Fwd.
Date 11 OCT 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

T6-3

49

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HHS/ec

T.63.49.CS 12 October, 1945

SUBJECT: Ostiglia Repeater Station

TO : Under-Secretary of State for PP. & TT.

1. At present, repeater and subsidiary equipment at Ostiglia is installed in the furnace room in the basement of the unfinished State Repeater Station Building.

2. This furnace room will be required for the heating of the station during the coming winter and it is necessary to transfer the equipment to another part of the building.

3. Suitable accomodation for the equipment has been chosen on the ground floor of the building.

4. Please may the Azienda di Stato per i Servizi telefonici be requested to place an order on the Sirti for the carrying out of the transfer of the existing equipment. The Sirti have been instructed to proceed with the work pending the receipt of the order.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

File

Tel. Nos. Day Milan 67138
Night Milan 66983

Ref.: TS 45/37

Subject: Italian State UG Cable Network
Ostiglia Repeater Station

To: Director Communications, Sub-Commission, HQ, AC (2 copies)

1. At present, repeater and subsidiary equipment at Ostiglia is installed in the furnace room in the basement of the unfinished State Repeater Station Building.

2. This furnace room will be required for the heating of the station during the coming winter and it is necessary to transfer the equipment to another part of the building.

3. Suitable accomodation for the equipment has been chosen on the ground floor of the building.

4. Please may the Aziende di Stato per i Servizi Telefinici be requested to place an order on the Sirti for the carrying out of the transfer of the existing equipment. The Sirti have been instructed to proceed with the work pending the receipt. of the order.

B.S. BURNS, CAPT.,
R. Sigs.
No; 5 Telecomms. Spec. Sec.

C/o Signalmaster
II District
October 5, 1945

Copies to: CSC L of C Italy
CE Sirti, Milan
CE Sirti, Rome
OC 157 TE Section
War Diary (2)

.5699

Declassified E.O. 12356 Section 3.3/NND No. 785015

led in the furnace room in the basement of the unfinished State Repeater Station Building.

2. This furnace room will be required for the heating of the station during the coming winter and it is necessary to transfer the equipment to another part of the building.

3. Suitable accomodation for the equipment has been chosen on the ground floor of the building.

4. Please may the Aziende di Stato per i Servizi Telefinici be requested to place an order on the Sirti for the carrying out of the transfer of the existing equipment. The Sirti have been instructed to proceed with the work pending the receipt of the order.

B.S. BURNS, CAPT.,
R. Sigs.
No; 5 Telecomms. Spec. Sec.

C/o Signalmaster
II District
October 5, 1945

Copies to: CSO L of C Italy
CE Sirti, Milan
CE Sirti, Rome
OC 157 TE Section
War Diary (2)

Director
D/Director
Chief Telecoms
Chief Posts
[illegible] Coms O
Asst Chief Posts
[illegible]ership
Chief Clerk.

5699

CROSS REFS
FILE 1.63
Sig wd.
Date 10 OCT 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

40

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.40.CS 23 October, 1945

SUBJECT: Repair of Main Cable.

TO : Under-Secretary of State for PP.TT.

1. With reference to your letter N° 987617/2020 of Ist September, to S.I.R.T.I. regarding the laying and jointing of Cable between Vibo Valentia and Tiriolo, Major Burns states that unfortunately the S.I.R.T.I. are fully engaged on military work at the moment.

2. He states however that he does not wish to retard any work which may be urgently required, and if this is so, he would like someone from your Dept. to discuss the matter with him in Milano when something can no doubt be arranged.

3. Would you kindly arrange this if you wish to proceed now with the work.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

5698

45

Declassified E.O. 12356 Section 3.3/NND No. 785015

Tel. Nos. Day Milan 67138
Night Milan 66963

Ref.: TS 45/37

Subject Italian State UG Cable Network
Ostiglia Repeater Station

To: Director Communications, Sub-Commission, HQ, AC (2 copies)

1. At present, repeater and subsidiary equipment at Ostiglia is installed in the furnace room in the basement of the unfinished State Repeater Station Building.

2. This furnace room will be required for the heating of the station during the coming winter and it is necessary to transfer the equipment to another part of the building.

3. Suitable accomodation for the equipment has been chosen on the ground floor of the building.

4. Please may the Azienda di Stato per i Servizi Telefinici be requested to place an order on the Sirti for the carrying out of the transfer of the existing equipment. The Sirti have been instructed to proceed with the work pending the receipt of the order.

B.S. Burns Capt.

B.S. BURNS, CAPT.,
R. Sigs.
No; 5 Telecomms. Spec. Sec.

C/o Signalmaster
II District
October 5, 1945

Copies to: CSO L of C Italy
CE Sirti, Milan
CE Sirti, Rome
CC 1C7 TE Section
War Diary (2)

5637

T 3 8 91

Declassified E.O. 12356 Section 3.3/NND No. 785015

Repeater Station Engineering Instruction No. 19
Italian State UG Cable Network
Loiano Repeater Station

Information

1. During the initial reconstruction of the UG Cable Network, it was decided that Loiano Repeater Station, which was badly damaged, should not be restored to service and that Florence-Bologna should not work as one Repeater SECTion.

2. Due mainly to the abnormal length of the Florence-Bologna section, tests carried out since the cable has been restored have revealed that crosstalk is of such magnitude as to prohibit any increase in the availability of circuits by using 1+1 carrier-equipment.

Intention

3. In order to provide further circuits and to improve existing circuits it has been decided to re-install Loiano Repeater Station.

Method

4. Sirti, Milan, will install, test out and bring into service the following equipment:

(a) 1 Bay of Cable terminations to terminate 68 Quads
(b) 12 Bays 4-wire repeaters Allocchio Bacchini "EMERGENZA" type total 36 repeaters
(c) 4 Bays 4-wire repeaters Siemens-Halske "EMERGENZA" type total 12 repeaters
(d) 1 Sirti type rectifier 24 V & 100 Amp.
(e) 1 Sirti type rectifier 130 V - 5 Amp.
(f) 1 Motor Generator Set 15 KVA

5. The above equipment will be collected and transported to Loiano by Sirti from the following locations:

(a) Cable terminations are already installed
(b) Allocchio Bacchini Repeaters: Verona Store
(c) Siemens-Halske Repeaters : Spare bays from Repeater Station on Brenner route
(d) Sirti type rectifier (2): Sirti Store, Bologna.
(e) Motor Generator Set 15 KVA: Captured German Set from Verona Store.

6. The work called for above will be completed on or before Nov. 10, 1945

B.S. BURNS, CAPT.,
R.Signals
No. 5 Telecomms. Sqns.Sec.

Copies to:
CSO 1 of C Italy
CSO XV District
Director, Communications, Sub-Commission, HQ? AC —
Sirti, Mila, (4 copies)
CC, No. 1 UG Cable Coy., R?Sigs.
CC, 62 Line Section
CC, 157 TE Section
War Diary 2
TS 45/17

5666

Declassified E.O. 12356 Section 3.3/NND No. 785015

TS/SX/2

No. 1 UG Cable Coy. R.Signals

Repeater Station Engineering Instruction No.20
Italian State UG Cable Network
Ostiglia Repeater Station

Information

1. Repeater and Subsidiary Equipment at Ostiglia is at present installed in the furnace room, in the basement of the unfinished State Repeater Station building.

2. This furnace room will be required for the heating of the station during the coming winter and it will be necessary to transfer the equipment to another part of the building.

Intention

3. To transfer the existing equipment to a room on the ground floor of the Repeater Station Building.

Method

4. A captured German Mobile Repeater Station will be located at Ostiglia and will be used to provide temporary service while the equipment is being transferred. Owing to the limited number of repeaters in the German Mobile Station, it will only be possible to transfer a percentage of the circuits at any one time.

5. Sirti, Milan, will carry out the transfer of circuits, dismantling and reassembling of equipment in the new location and final transfer of circuits. Greatest care will be taken to ensure that circuits are out of service for the shortest possible time during transfer.

6. Sirti Engineer-in-charge of the work will be responsible for informing Bologna Repeater Station Staff and and Verona Repeater Station Staff as to the exact time when transfers will be taking place and on which circuits.

7. British Repeater Station Staff at Bologna will be responsible for the passing of information to Bologna Fault Control.

8. Completion of transfer of all equipment will be notified to Capt. B.S. Burns, R.Sigs., by Sirti, Milan.

B.S. Burns Capt.

B.S. BURNS, CAPT.,
R.Signals
No. 5 Telecomms. Spec.Sec.

October 5, 1945

Copies to: CSO L of C Italy
CSO II District
Director, Communications, Sub-Commission HQ. AC —
Sirti, Milan (4 copies)
CC, No.I UG Cable Coy.,R.Sigs.
CC 62 Line Section
CC 157 TE Section 2 (1 for Bologna RS)
CC Bologna Fault Control
War Diary 2
TS/42/37

5695

File 39

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.39.OS 22 October, 1945

SUBJECT: Florence Bologna Cable.

TO : C.S.O. L of C Italy (Main)

1. Please see attached papers. A copy has not been made.

2. Do you wish such cases to be dealt with directly by this Commission or will you decide each case on its merits?

3. Kindly advise re this case.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Enclosure: Letter from Lt.Rushing re burial of Cable.

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. Please see attached papers. A copy has not been made.

2. Do you wish such cases to be dealt with directly by this Commission or will you decide each case on its merits?

3. Kindly advise re this case.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Enclosure: Letter from Lt.Rushing re burial of Cable.

see 41

5694

Declassified E.O. 12356 Section 3.3/NND No. 785015

1393

Declassified E.O. 12356 Section 3.3/NND No. 785015

148

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HHS/eo

T.63.48.CS 9 October, 1945

SUBJECT: State Underground Cable

TO : Undersecretary of State for PP. & TT.

1. During recent months, much trouble, mainly due to crosstalk, has been experienced on cable circuits over the Florence-Bologna section of the Italian UG Cable Network.

2. Tests have shown that this trouble is mainly due to the abnormal length of the Repeater Section, Loiano Repeater Station not having been restored to service during the initial repairs to the cable.

3. In order to overcome this trouble, and consequently increase the availability of circuits, it has been decided to re-install Loiano Repeater Station.

4. Work required to carry out this instal lation is detailed in the attached Appendix.

5. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work pending the receipt of the order.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Inclosure:Appendix to Letter TS 45/17 of Oct.5.1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

(Copy)

APPENDIX TO LETTER TS 45/17 OF OCT

S.I.R.T.I. to install (in old Power Room, Loiano Repeater S ation), test out, and bring into service the following equipment:

1. Bay Cable Terminations to terminate 68 Quads.

12. Bays 4-Wire Repeaters Allocchio Bacchini "EMERGENZA" type total 36 repeaters.

4. Bays 4-wire Repeaters Siemens-Halske "EMERGENZA" type, total 12 repeaters.

1. S.I.R.T.I. type rectifier 24 V - 100 Amp.

1. S.I.R.T.I. type rectifier 130 V - 5 Amp.

1. Motor Generator Set (German) 15 KVA

T.L.Nos. Day: Milan 67138
Night:Milan 66983

Ref. TS.45/17

47

Subject: Italian State UG Cable Network.
Loiano Repeater Station.

To: Director, Communications Sub-Commission.
H.Q., A.C. (2 copies)

1. During recent months, much trouble, mainly due to cross=talk, has been experienced on cable circuits over the Florence-Bolo=gna section of the Italian UG Cable Network.

2. Tests have shown that this trouble is mainly due to the ab=normal length of the Repeater Section, Loiano Repeater Station not having been restored to service during the initial repairs to the ca=ble.

3. In order to overcome this trouble, and consequently increase the availability of circuits, it has been decided to re-install Loiano Repeater Station.

4. Work required to carry out this installation is detailed in the attached Appendix.

5. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work pending the receipt of the order.

B.S. BURNS, CAPT.,

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. During recent months, much trouble, mainly due to cross=talk, has been experienced on cable circuits over the Florence-Bolo=gna section of the Italian UG Cable Network.

2. Tests have shown that this trouble is mainly due to the ab=normal length of the Repeater Section, Loiano Repeater Station not having been restored to service during the initial repairs to the ca=ble.

3. In order to overcome this trouble, and consequently increase the availability of circuits, it has been decided to re-install Loiano Repeater Station.

4. Work required to carry out this installation is detailed in the attached Appendix.

5. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work pending the receipt of the order.

B.S. BURNS, CAPT.,
R.Signals
No.5 Telecoms. Spec. Section

5692

Copies to: C.S.O. L of C Italy
C.E. Sirti, Milan.
C.E. Sirti, Rome
O.C. 157 T.E. Section
War Diary (2)

Director
D/Director
Chief Telecoms
Chief Postal
H Q., Comms O
Asst Chief Postal
Censorship
Chief Clerk

CAUSE REFS.
FILE T.63
B/Fwd.
8 OCT. 1945
Date

Declassified E.O. 12356 Section 3.3/NND No. 785015

APPENDIX TO LETTER TS 45/17 OF OCT.5 1945

S.I.R.T.I. to install (in old Power Room, Loiano Repeater Station), test out, and bring into service the following equipment:

1 Bay Cable Terminations to terminate 68 Quads.

12 Bays 4-wire Repeaters Allocchio Bacchini "EMERGENZA" type total 36 repeaters.

4 Bays 4-wire Repeaters Siemens-Halske "EMERGENZA" type, total 12 repeaters.

1 S.I.R.T.I. type rectifier 24 V - 100 Amp.

1 S.I.R.T.I. type rectifier 130 V - 5 Amp.

1 Motor Generator Set (German) 15 KVA

B.S. BURNS, CAPT.
R.SIGNALS
No5 TELECOMMS. SPEC. SECTION

Declassified E.O. 12356 Section 3.3/NND No. 785015

1 Bay Cable Terminations to terminate 68 Quads.

12 Bays 4-wire Repeaters Allocchio Bacchini "EMERGENZA" type total 36 repeaters.

4 Bays 4-wire Repeaters Siemens-Halske "EMERGENZA" type, total 12 repeaters.

1 S.I.R.T.I. type rectifier 24 V - 100 Amp.

1 S.I.R.T.I. type rectifier 130 V - 5 Amp.

1 Motor Generator Set (German) 15 KVA

B.S. BURNS, CAPT.
R.SIGNALS
No5 TELECOMMS. SPEC. SECTION

5691

Declassified E.O. 12356 Section 3.3/NND No. 785015

F 3696

Tel.Nos. Day: Milan 67138
Night: Milan 66983
Ref. TS.45/17

Subject: Italian State UG Cable Network.
Loiano Repeater Station.

To: Director, Communications Sub-Commission.
H.Q., A.C. (2 copies)

1. During recent months, much trouble, mainly due to cross-talk, has been experienced on cable circuits over the Florence-Bologna section of the Italian UG Cable Network.

2. Tests have shown that this trouble is mainly due to the abnormal length of the Repeater Section, Loiano Repeater Station not having been restored to service duering the initial repairs to the cable.

3. In order to overcome this trouble and consequently increase the availability of circuits, it has been decided to re-install Loiano Repeater Station.

4. Work required to carry out this installation is detailed in the attached Appendix.

5. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work pending the receipt of the order.

Declassified E.O. 12356 Section 3.3/NND No. 785015

gna section of the Italian UG Cable Network.

2. Tests have shown that this trouble is mainly due to the abnormal length of the Repeater Section, Loiano Repeater Station not having been restored to service duering the initial repairs to the cable.

3. In order to overcome this trouble and consequently increase the availability of circuits, it has been decided to re-install Loiano Repeater Station.

4. Work required to carry out this installation is detailed in the attached Appendix.

5. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work pending the receipt of the order.

B.S. BURNS, CAPT.,
R.Signals
No.5 Telecomms. Spec. Section

Copies to: C.S.O. L of C Italy
C.E. Sirti, Milan
C.E. Sirti, Rome
O.C. 157 T.E. Section
War Diary (2)

Declassified E.O. 12356 Section 3.3/NND No. 785015

APPENDIX TO LETTER TS 45/17 OF OCT.5 1945

S.I.R.T.I. to install (in old Power Room, Leiano Repeater Station), test out, and bring into service the following equipment:

1 Bay Cable Terminations to terminate 68 Quads.

12 Bays 4-wire Repeaters Allocchio Bacchini "EMERGENZA" type total 36 repeaters.

4 Bays 4-wire Repeaters Siemens-Halske "EMERGENZA" type, total 12 repeaters.

1 S.I.R.T.I. type rectifier 24 V - 100 Amp.

1 S.I.R.T.I. type rectifier 130 V - 5 Amp.

1 Motor Generator Set (German) 15 KVA

B.S. BURNS, CAPT.
R.SIGNALS
No5 TELECOMMS. SPEC. SECTION

Declassified E.O. 12356 Section 3.3/NND No. 785015

12 Bays 4-wire Repeaters Allocchio Bacchini "EMERGENZA" type
total 36 repeaters.

4 Bays 4-wire Repeaters Siemens-Halske "EMERGENZA" type, total
12 repeaters.

1 S.I.R.T.I. type rectifier 24 V - 100 Amp.

1 S.I.R.T.I. type rectifier 130 V - 5 Amp.

1 Motor Generator Set (German) 15 KVA

B.S. BURNS, CAPT.
R.SIGNALS
No5 TELECOMMS. SPEC. SECTION

6889

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject: Completion Report
Genoa Repeater Station

TS 43/1
Oct. 6, 1945

44

G.S.O.
L of C Italy

Work detailed in Repeater Station Engineering Instruction No. 17 issued by No. 1 UG Cable Coy., R.Signals on 27 Aug. 1943 is now completed.

B.S. BURNS., CAPT.
R/Signals
No. 5 Telecomms. Spec. Sec.

C/o Signalmaster
II District

Copy to:

Director
D/Director
Chief Telecoms
Chief Postal
A.Q. Comms O.
Asst Chief Postal
Censorship
Chief Clerk.

Director Communications, Sub-Commission HQ, AC.
J.C. No. 1 UG Cable Coy., R.Sigs (2) (1 for OC 157 T.E.)
War Diary (2)
TS. 45/31

FILE T.63 | R/Fwd.

Date 11 OCT. 1945

5688

1404

Declassified E.O. 12356 Section 3.3/NND No. 785015

45

TS. 43/1
6th Oct., 1945

Subject: Completion Report.
Lucca Repeater Station.

C.S.O. L of C Italy

Work detailed in Repeater Station Engineering Instruction No. 18 issued by No. 1 UG Cable Coy., R.Signals on Sept. 6, 1945 is now completed.

B.S. BURNS, CAPT.,
R. Signals
No. 5 Telecomms. Spec. Section

C/o Signalsmaster
IX District

Copy to:
Director Communications Sub-Commission HQ, AC.
C.O. No. 1 UG Cable Coy., R.Sigs.(2) (1 for OC 157 Fmn)
War Diary (2)
TS 45/15

Chief Clerk
Asst Chief Posts
Censorship
Chief Clerk
1.63
5 OCT. 1945
B/two.

Declassified E.O. 12356 Section 3.3/NND No. 785015

43.B

AC LIAISON OFFICER BOLOGNA FOR RUSHING.

6630 5TH OCT. 1945 ROUTINE.

UNCLASSIFIED PD

REFERENCE RELEASE NOTE ONE ZERO TWO THREE COPY TO YOU RE ONE UNDERGROUND CABLE COY SURPLUS STORES.PD PARSN TO AC LIAISON OFFICER BOLOGNA FOR RUSHING FROM ALCOM CITE ACCOM PARSN

TAKE STEPS OBTAIN ALL ITEMS YOU CAN EARLIEST POSSIBLE AS OTHERWISE LIKELY STORES MAY BE PASSED TO MILITARY UNITS PD NOTHING CAN BE DONE RE ITEMS TWO PD FIVE PD EIGHT PD SIXTEEN TO TWENTY PD TWENTYFIVE PD TWENTYSIX

ナハ南5836

COMMUNICATIONS S/C

555

1406

Declassified E.O. 12356 Section 3.3/NND No. 785015

T3/45/38

File 42

REPEATER STATION ENGINEERING INSTRUCTION N° 19

MEDITERRANEAN U. G. CABLE NETWORK

SPEZIA (TETI) REPEATER STATION

INFORMATION:

1. The T.E.T.I. are installing at SPEZIA 10 4 2 wire Repeaters. To meet the Military requirements of the Allied Forces, additional 2 wire Repeater Equipment is required.

INTENTION:

2. To instal at SPEZIA Repeater Station
6 - 2 wire Repeaters.

METHOD:

3. S.I.R.T.I. will withdraw from the VERONA Store of recovered equipments-

2 Bays of Emergency Type
2 wire Repeater Equipment
each bay equipped with:-
3 4 2 wire Repeaters
3 - 20/20 Cycle Ringers
Balancing Equipment (adjustable)
Power Pack AD/D.C.

4. SIRTI will transport the above equipment from VERONA to SPEZIA.

5. SIRTI will instal, cable, adjust, test out, line up and out into service above equipment.

NOTE: The circuits on which the above equipment is to be utilised will be allocated by C.S.O. L of C.

Director
Director of Telecoms
Asst Director Postal
Comm. O.
Asst Chief Posts
Censorship
Chief Clerk

TIME:

The work detailed above to be completed on or before 10th October 1945.

G.A. Keith

G.A. KEITH
Lieut. Colonel Royal Signals

CROSS REFS.
FILE 1.63
B/Fwd.
21 SEP. 1945

5685

Copy to: CSO L of C Italy
Director of Communications Sub-Commission HQ.A.C.
Chief Engineer TETI
SIRTI Milano (4 copies)
O.C. N° 1 U.C. Cable Coy
War Diary (2)
File.

Declassified E.O. 12356 Section 3.3/NND No. 785015

N.1 U.G.CABLE COY. R.SIGNALS 23/45/15

35

38.A

REPEATER STATION ENGINEERING INSTRUCTION No.18

ITALIAN U.G. CABLE NETWORK

LUCCA (T.A.T.I.) REPEATER STATION

INFORMATION

1. The existing Equipment for 4 and 2 wire circuits consists of:

   12 - 4 wire Repeaters
   12 - 4 wire Terminating Sets
   42 - 2 wire Repeaters
   20 - 500/20 cycle Ringer Panels.

2. Additional 4 wire Repeaters Equipment is required to meet the requirements of the Allied Forces.

INTENTION

3. To install at LUCCA Repeater station an extension consis ting of:

   4 - 4 wire Repeaters
   and associated apparatus.

FILE T.63	B/Fwd.

Date 10 SET. 1945

METHOD

4. SIRTI MILANO will withdraw from the Store of recovered civil equipment at VERONA:

   4 - 4 wire Repeaters (FACE Type)
   complete with associated Battery Supply apparatus and, if required, Line Transformers and L.F.Connectors.

5. The SIRTI will transport the above equipment from VERONA to LUCCA.

6. The SIRTI will install, cable, adjust, and test out the above equipment

5584

Declassified E.O. 12356 Section 3.3/NND No. 785015

TIME

7. The work called for above will be completed on or before 30 SEPT.45.

6 SEPT 45

G.A.Keith
G.A.KEITH
Lieut.Colonel, R.Signals

Copy to CSO L of C Italy
Director Communications Sub-Commission HQ. AC.
SIRTI MILANO (4 copies)
O.C. No.1 U.G.Cable Coy, R.Signals
War Diary (2 copies)
File

5243

Declassified E.O. 12356 Section 3.3/NND No. 785015

64

138

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Commercial Telegram

Originator's Reference: SIG/5666
Date/Time of Origin: SEP 071745B

Message Centre No: F/7511
Date Time Rec'd: SEP 131830B
Precedence: ROUTINE

FROM ORD BRIT AFHQ (ORD 2/13)

TO : OO 3 SUB DEPOT 557 BOD INFO HQ ALCOM ATTN COL MILLER WIRE DIV ATTN MAJ KLAMMER . ORD 1. A SIG PK COY. COO 557 BOD

RESTRICTED

RESTRICTED

INFO - ACTION

Release and despatch by Sig PK Coy Tpt soon as possible to second addressee. Underground cable stores in completion project AFHQ/49. Solder No 8 Qty 5,000 lbs. Sleeves paper No 8 Qty 20,000. Sleeves paper No 7 qty 15,000. Flux stearine compound qty 125 lbs. Baty secy port 24 volt 170 AH qty 18. Tinmans solder qty 5,000 lbs to be obtained from 2 Sub Depot. Driver to report to Col MILLER at Hq Allied Commission ROME to receive directions where to deliver stores. Conversations EMMETT - JAMES - PITMAN refer. Report completion to Ord 2/13 earliest. 2nd addressee your T14B32CS dated 3 September refers. Remaining stores released from 536 signal Park under Sigs/1018.

Dist

Info-Action - Communications SC
Info - Chief Commissioner
G 4 B
File 2
Float

Received & decoded

Director
Dy Director AOM
Chief, Telegrams
Chief, Postal
A Q., Comm. O.
Asst. Chief Postal
Cashier/Help
Chief Clerk

RESTRICTED

KEEPS
FILE 64
B/Fwd

HEADQUARTERS
11 SEP 1945
45682

For following
Hotel
12/10

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission

HTWM/eg. 137

T.64.37.08. 12th September 1945.

Subject : Maintenance of Allied Circuits.

To : Under Secretary of State for P.T.

1. - Major Carroll of the office of CSO L of C asked that the following points be brought to your notice.

2. - Certain numbers of men have to be recruited for maintenance by civilian organisations working under the fault controls, in accordance with requirements estimated by your officials. In the opinion of the CSO, recruitment is proceeding too slowly. You may wish to investigate. Your difficulties are of course appreciated.

3. - For instance, out of 60 men required for Rome, none is said to have been recruited.

4. - The CSO's intention is that the men should be placed now with Signal troops in order that they may learn the work.

5. - The CSO has asked the fault controls to send you lists of tool requirements.

Endeavours are being made to obtain particulars of any tools available from civilian or military sources. In the meantime you will no doubt place orders now for tools to be manufactured.

H.H. SCUDDER
Lt.Colonel, Sig.C.,
Director.

Copy to : CSO L of C for Major Carroll.

5681

Declassified E.O. 12356 Section 3.3/NND No. 785015

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Communications 283

Originator's Reference: M 30

Date/Time of Origin: SEP 081400B

Message Centre No: F/7078

Date Time Rec'd: SEP 091700B

Precedence: ROUTINE

37.A

FROM 536 SIGNAL PARK

TO : HQ ALCOM INFO AFHQ

UNCLASSIFIED

Ref AFHQ SIGS 1018 7 August 45. British Rep with underground cable stores due your midday Sunday 9 August 45.

Dist

Action - Communications SC
Info - Chief Commissioner
File 2
Float

ACTION

M/C Note

No trace of quoted ref.

File: T.69 By: WO.
Date 10 SEP. 1945
5680

Declassified E.O. 12356 Section 3.3/NND No. 785015

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

Originator's Reference: SK415
Date/Time of Origin: SEPT 8/1550

Message Centre No: F/7061
Date Time Rec'd: SEPT 9/1430B
Precedence: ROUTINE

FROM CSO L/C ITALY

TO : ALCOM CITE ACCMI INFO: CSO DISTWO AMG PROVINCIAL COMMISSIONER VENICE FOR ~~AMG~~

UNCLASSIFIED.

Your 4487. pairs 105-109 A (also known as 45-49) allocated for state use.

pairs 110-114 (also known as 50-56) allocated for TELVE use

DIST

ACTION :COMMUNICATIONS

INFO :CHIEF COMMISSIONER
FILE (2)
FLOAT

Director
Asst Director
Asst Telecoms
Asst Postal
Coms O.
Asst Chief Postal
Workshop
Asst Clerk

U.S. WDFS.
FILE 1,630
B/Fwd.
10 SEPT. 1945

HEADQUARTERS
9 SEP 45

5679

No action - copy for information sent as above by type

Declassified E.O. 12356 Section 3.3/NND No. 785015

BEST COPY POSSIBLE

Declassified E.O. 12356 Section 3.3/NND No. 785015

36 P

REPEATER STATION ENGINEERING INSTRUCTION Nº 17

ITALIAN STATE U. G. CABLE
GENOVA REPEATER STATION

INFORMATION:

1. The existing equipment for 4 wire circuits consists of:
   24 - 4 wire Repeaters
   24 - 4 wire 500/20 cycle Ringer Panels
   24 - 4 wire Terminating Sets.

2. Additional apparatus will be required to equip the additional circuits which will be brought into service in the near future.

INTENTION:

3. To install at GENOVA Repeater Station an extension consisting of:-
   12 - 4 wire Repeaters
   12 - 4 wire 500/20 cycle Ringer Panels
   12 - 4 wire Terminating Sets.

METHOD:

4. SIRTI Milano will withdraw from the Store of recovered civil equipment at VERONA Repeater Station the equipment listed in para 3 above.

   The equipment drawn will be of F.A.C.E. type.

5. SIRTI will transport the above equipment from VERONA to GENOVA.

6. SIRTI will install, cable, adjust and test out the above equipment and carry out any necessary repairs.

TIME:

7. The work called for above will be completed on or before 30 September 1945.

27 August 1945

G. A. KEITH
Lieut. Colonel R. Signals
5678

Copy to: CSO L of C Italy
CSO II District
Director Communications Sub-Commission H.Q. A.C.
SIRTI Milano (4 copies)
O.C. 1 U.G. Cable Coy
War Diary (2)
File

HEADQUARTERS A.C. LIAISON - BOLOGNA
APO 394

#9

30 August 1945

136

Ref: LML/TELECOMS

SUBJECT : Genova-Lucca Cable.
TO : Director, Communications S/C, Hq. A.C.

see 32

Reference your letter T.64.32.CS of 25 August 45.

1. The only person remaining here at the repeater station is a Cpl. Dickson who states that 8 groups and their 4 phantoms have been put thru Genova-Lucca.

2. Some circuits from the Genova, Milan, Turin area to the south which previously were routed thru here to Florence have been rerouted thru Lucca-Genoa. That should release some more circuits Florence-Bologna and Bologna- to the west, should it not?

For the Bologna A.C. Liaison Officer

William R. Rushing

WILLIAM R. RUSHING
1st Lt., Sig. C.
A.C. Telecoms Liaison O.
Emilia Region.

Declassified E.O. 12356 Section 3.3/NND No. 785015

Director

see 32

Reference your letter T.64.32.CS of 25 August 45.

1. The only person remaining here at the repeater station is a Cpl. Dickson who states that 8 groups and their 4 phantoms have been put thru Genova-Lucca.

2. Some circuits from the Genova, Milan, Turin area to the south which previously were routed thru here to Florence have been rerouted thru Lucca-Genoa. That should release some more circuits Florence-Bologna and Bologna- to the west, should it not?

For the Bologna A.C. Liaison Officer

William R. Rushing

WILLIAM R. RUSHING
1st Lt., Sig. C.
A.C. Telecoms Liaison O.
Emilia Region.

5677

Director	
D/Director	
Chief Telecoms	
Chief Posts	
H Q Coms O	
Asst Chief Posts	
Censorship	
Chief Clerk	

CROSS REFS	
FILE 1.64	S/Fwd.

Date 31 AUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

1417

N° 1 U.G. CABLE COY R. SIGNALS

TS/45/38

REPEATER STATION ENGINEERING INSTRUCTION N° 16

ITALIAN STATE U. G. CABLE
MILANO REPEATER STATION

INFORMATION:

1. The existing equipment for 4 wire circuits consists of:

62 - 4 wire Repeaters
60 - 4 wire 500/20 cycle Ringer Panels
79 - 4 wire Terminating Sets.

2. Additional apparatus will be required to equip the additional circuits which will become available on the completion of the work being carried out at MONTU-BECCARIA and SAN+SECONDO Repeater stations on the Bologna - Casteggio route.

INTENTION:

3. To install at MILANO Repeater station an extension consisting of:-

24 - 4 wire Repeaters
26 - 4 wire 500/20 cycle Ringer Panels
7 - 4 wire Terminating Sets.

METHOD:

4. SIRTI MILANO will withdraw from the STORE of recovered civil equipment AT VERONA REPEATER STATION the equipment listed in para 3 above; the equipment drawn will be of F.A.C.E. type.

5. SIRTI will transport the above equipment from VERONA to MILANO.

6. SIRTI will install cable, adjust, and test out the above equipment and will carry out any necessary repairs.

CROSS REFS.
FILE T.63 B/Fwd.
31 AUG 1945

Director
U/Director
Chief Telegrams
Chief Postal
H Q Coms O
Asst Chief Postal
Censorship
Chief Clerk

TIME:

7. The work called for above will be completed on or before 15 September 1945.

27 August 1945

G.A. KEITH
Lieut. Colonel R. Signals

Copy to: CSO L of C Italy
CSO II District
Director Communication Sub-Commission H.Q. A.C.
SIRTI MILANO (4 copies)
O.C. N° 1 U.G. CABLE Coy R. Signals
War Diary (2)
File

5676

Declassified E.O. 12356 Section 3.3/NND No. 785015

HTWM/epc

21

36.0

CHIEF SIGNAL OFFICER LINE OF COMMUNICATIONS/RPTD AMG PROVINCIAL COMMISSIONER VENICE FOR AXRE

4487 29 AUGUST 1945 ROUTINE

UNCLASSIFIED PD

PLEASE ALLOCATE FIVE CABLE CIRCUITS VENICE PADOVA FOR STATE USE AND

FIVE FOR TELVE USE PD

PAREN TO OSO LOVE OF CHARLIE RPTD AMG PROVINCIAL COMMISSIONER VENICE

FOR AXRE FROM HQ ALCOM CITE ACOMN PAREN

UNDERSTAND PLENTY AVAILABLE

5875

File Copy

T. 63

see 32

COMMUNICATIONS S/C

555

Declassified E.O. 12356 Section 3.3/NND No. 785015

Communications

INCOMING MESSAGE

HEADQUARTERS ALLIED COMMISSION

240

Originator's Reference: 10800
Date/Time of Origin: AUG 291720

Message Centre No: F/5808
Date Time Rec'd: AUG 292140
Precedence: ROUTINE

FROM ROMA VENEZIA
TO : DIRECTOR COMMUNICATIONS SC HQ ALCOM ROME

36.A

UNCLASSIFIED.

There are 452 wire circuits available for use in state cable between PADOVA and VENICE please request allocation of 5 pairs for state use and also 5 pairs for TELME. RICHARD H AYRE MAJOR SIG C TELECOMS OFFICERS VENEZIA REGION.

HEADQUARTERS
AUG 45
A. C.

DIST

ACTION COMMUNICATIONS SC
INFO FILE

ACTION

for Telecoms
Asst Chief Postal
Chief Clerk

5674

Cipher Desk
Time
Date B/Fwd
T.14
30 AUG 1945

1420

Declassified E.O. 12356 Section 3.3/NND No. 785015

N°1 U.G. CABLE GOT ROYAL SIGNALS

T.S./42/17

Tele. Day 67138(
Night 66983(Milan

35

Subject: ITALIAN STATE U.C.CABLE
BOLOGNA-BRENNERO SECTION
RECONSTRUCTION AND MAINTENANCE

S.I.R.T.I.,
MILANO.

1. The general condition of the above cable causes concern, as it would appear that there still remains a considerable number of faulty joints made by the Germans during the time they were operating the cable.

2. Unless steps are taken to overhaul the cable in the near future it is probable that with the advent of the rainy season fault incidence will be high and there will be a danger that the normal maintenance squads will be unable to keep the cable in service.

3. The required work of revision should be carried out by a special group working independently but in liason with the maintenance groups, fault controls and the Staff of the Repeater Stations.

4. It is considered that the work required could be carried out by a Group consisting of:-
1 Tecnico (Tec. Varni is suggested)
3 Jointers
4 Asst. Jointers
with the necessary cable hands and labour.

5. Stores and transport ~~to be~~ obtained from the stocks held in reserve at your Milan store.

6. To meet the requirements of the Allied Forces the above work should be commenced without delay.

C.A. KEITH
Lieut. Colonel Royal Signals

Director
D/Director
Asst. Telecoms
Asst. Postal
Comms O.
Chief Postal
Worship
Clerk.

c/o SIGNAL OFFICE
59 Area
23 August 45.

WrS	
FILE T.64	B/Fwd.

5073

27 AUG 1945

Copy to: C.S.O. AFHQ
CSO L of C Italy
Director Communications sub-commission Hq. AC.
O.C. N°1 U.C.Cable Gp. -File

Declassified E.O. 12356 Section 3.3/NND No. 785015

(24)

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTW/ec

25th August, 1945

T.64.34.CS

SUBJECT: Underground Cable Circuits.

TO : Under-Secretary of State for Posts and Telecomms.

1. It has been suggested by Lt.Rushing that one of the Bologna-Ancona telephone circuits be cut to provide a Bologna-Rimini circuit and a Rimini-Ancona cct.

2. The matter is one that the Italian Government should decide, and your views are requested.

3. If you wish the change made, it will be necessary for you to ensure that the lead-in cable at Rimini is in order.

H.H.SOUDDER,
Lt.Col.Sig.C.
Director.

Copy: A.C. Liaison Off, Bologna for Lt.Rushing -
refer: yours of 23 August.

5672

1422

Declassified E.O. 12356 Section 3.3/NND No. 785015

33

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.33.CS 25th August, 1945

SUBJECT: Cable Circuits for Italian Government

TO : Under-Secretary of State for PP.TT.

1. The stub cable from the main cable to Ferrara is ready for use.

2. It is requested that permission be given to have it joined through to the main cable to provide Bologna-Ferrara circuits.

3. If you agree in principle the Aziends will be asked to prepare detailed proposals.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Copy: A.C. Liaison Off. Bologna for Lt.Rushing -
ref yours of 23 August.

5671

Declassified E.O. 12356 Section 3.3/NND No. 785015

32

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.32.CS 25th, AUGUST, 45

SUBJECT: Genova-Lucca Cable .

TO : AMG Liaison Officer, Bologna (Att: Lt.Rushing)

1. S.I.R.T.I has been repairing the Genova-Lucca Cable for the past month or two in accordance with plans of N°1 U/G Cable Coy.

2. Kindly enquire from Capt. Burns or from S.I.R.T.I. as to the position of the work, and if not yet finished, the probable date of completion.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

5679

see 36

1424

Declassified E.O. 12356 Section 3.3/NND No. 785015

Mod. 867

1st translation

Roma 23 AGO 1945 A. 31/A

Ministero delle Poste
e delle Telecomunicazioni
GABINETTO DEL MINISTRO

Servizio Div. Sez.
Tel. N° 10833/5.5
Allegati

Alla COMMISSIONE ALLEATA
Sottocommissione Comunicazioni. = R O M A =

Risposta al f. N°
del

OGGETTO: Comunicazioni telefoniche sulla Costiera Amalfitana.=

In relazione alle forti esigenze di traffico della costiera Amalfitana, densa di popolazione con attività turistica, industriale e commerciale di primissimo ordine, si prega codesta Commissione di voler esaminare la possibilità di restituire al traffico civile qualcuno dei circuiti convogliati nei due cavi telefonici che collegano Salerno ai comuni della Costiera stessa (Maiori, Minori, Atrani, Amalfi, ecc.).=

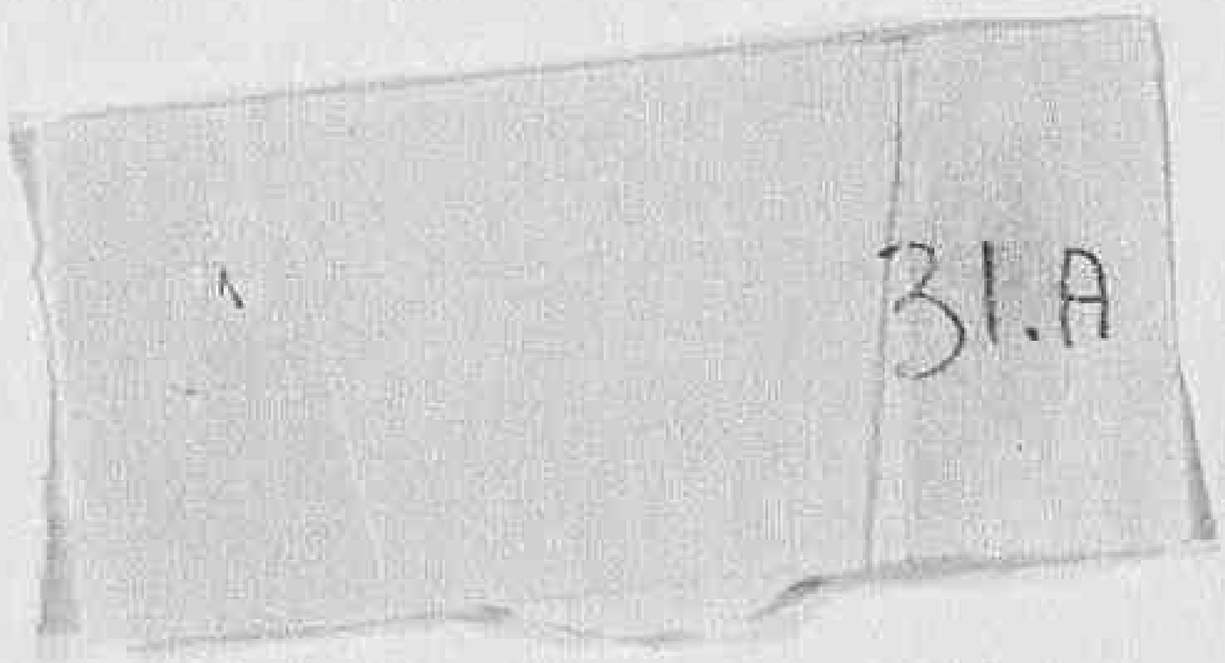
Sarà gradito un sollecito cortese riferimento sulla questione.

Chief Telecoms
Chief Posta
H Q Comm O
Asst Chief Posta
Censorship
Chief Clerk

IL MINISTRO

FILE OF 69 Fwd.
T.35
Ale 59 Date 25 AGO 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015



Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission

31

HTWM/ec

T.54. .CS

21th August, 1945

SUBJECT: 1 + 1 Carrier Telephone Equipment on Azienda Cable.
TO : Under Secretary of State for PP.TT.

1. With reference to a recent discussion regarding the use of 1 + 1 equipment between Rome and Bologna, it has been found from Col. Keith that Allied organisations do not intend to proceed with the installation of 1 + 1 equipment on the Rome Bologna cable.

2. It is stated by Col. Keith that cross talk is so severe now on the cable that the use of 1 + 1 equipment on the phantoms is not practical at the moment.

help 3. The restoration of Lojano repeater station would ~~keep~~ matters.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

5668

Declassified E.O. 12356 Section 3.3/NND No. 785015

30

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.14. .CS 18th August, 945

SUBJECT: Transmission Equipment.

TO : C.S.O., L.of C. Italy.

1. Reference: Memo N° T345/38 of 13 August from Lt.Col. Keith to A.C. (Copy to you).

2. It is understood from Col. Keith's Memo that it may be possible to release to the Italian Government the equipment now at Verona Repeater Station.

3. This equipment is very badly required, and it is accordingly requested that it be handed over to the Under-Secretary of State for Posts and Telecommunications.

4. It is also requested that consideration be given to the supply of transport for the removal of the equipment at Zauchon.

It is understood that Italians would not be allowed to go to Zauchon to collect the bays, and in any case there are only a few 15 cwt vehicles available which are needed for normal maintenance.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Copy: C.S.O., AFHQ

f. 6 4

5667

Director
D/Director
Chief Telecoms
Chief Postal
H Q Coms O
Asst Chief Postal
Censorship
Chief Clerk

29

N° 1 Underground Cable Coy.
TJ 49
11 Aug 45

Subject: Closing of Technical Office
N° 1 U.G. Cable Coy., R.Sigs.

To Distribution

1. Technical Office, N° 1 U.G. Cable Company, R.Signals is closing down at 1800 hrs 11 Aug. 1945.

2. W.e.f. the above time and date C.E., SIRTI, Milan and C.E., SIRTI, Rome will be responsible, through Lt Col GA Keith R.Signals, to the CSO, L of C Italy for the completion of the reconstruction work now in hand for the Allied Forces and direct to the CSO, L of C Italy for the Maintenance of the Italian State U.G. Cable Network.

3. Director TETI and Director TIMO will be responsible direct to the CSO, L of C Italy for the maintenance of the TETI and TIMO U.G. Cable Networks respectively.
N.B. Certain parts of the TETI Network in Rome area are maintained by SIRTI.

4. All references to Technical Office N° 1 U.G. Cable Coy., R.Signals and the Staff thereof in Cable Maintenance Engineering Instructions N°s. 1, 2 and 9 should be deleted.

5. A list of Telephone Numbers is attached.

(BS BURNS) Capt., R.Signals
for Lt Col GA Keith, R.Signals

BSB/jcs

Distribution
CSO L of C Italy (Main)
Dir. Comms Sub-Commission, HQ,AC,A
Lt Col GA Keith, R.Sigs.
OC 1 U.G. Cable Coy., R.Sigs.

Declassified E.O. 12356 Section 3.3/NND No. 785015

Italian State U.G. Cable Network.

3. Director TETI and Director TIMO will be responsible direct to the CSO, L of C Italy for the maintenance of the TETI and TIMO U.G. Cable Networks respectively.
N.B. Certain parts of the TETI Network in Rome area are maintained by SIRTI.

4. All references to Technical Office No 1 U.G. Cable Coy., R.Signals and the Staff thereof in Cable Maintenance Engineering Instructions Nos. 1, 2 and 3 should be deleted.

5. A list of Telephone Numbers is attached.

BSB/jcs

(BS BURNS) Capt., R.Signals
for Lt Col GA Keith, R.Signals

Distribution

CSO L of C Italy (Main)
Dir. Comms Sub-Commission, HQ, AC. V
CSO, BTA
SO, 5 Army
SO PBS
CSO No 1 District
CSO No 2 District
CSO No 3 District
OC Fault Control Bari
" " " Naples
" " " Rome
" " " Florence
" " " Bologna
" " " Ancona
OC Maintenance Control Padua
" " " Udine
" " " Forli
" " " Milan

Lt Col GA Keith, R.Sigs.
OC 1 U.G. Cable Coy., R.Sigs.
OC 62 Line Section
OC 157 TE Section
Cable Officer
CO, SIRTI Milan
CO, SIRTI Rome
Director, TETI Rome
Director, TIMO Parma
War Diary (2)
TS 49

5666

CROSS REFS.
FILE T.64 B/fwd

P.T.O.

Declassified E.O. 12356 Section 3.3/NND No. 785015

List of Telephone Numbers attached to TS 49 of 11 Aug 1945.

CSO, L of C Italy	Farmer VIA Naples L.D.
C.E., SIRTI, Milan	Milan 67443
	65616
C.E., SIRTI, Rome	Rome 43161
	41267
Director TEMI (Ing. Zacchinini)	Rome 056
Director TIMO	off Bologna
Maintenance Engineers and Technicos	as Appendix 'A'
	CMEI No 9

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

TS/K
C/o SIGNAL MASTER
5Q AREA
TELE
DAY 67138 MILANO
NIGHT 66983

28

Subject: ITALIAN STATE CABLE NETWORK
CIVIL RECONSTRUCTION PROGRAMME

Director,
Communications Sub-Commission
HQ A.C.
ROMA

On August 8th,1945 I held a meeting with Ing. Bifulco, Director Azienda di Stato per I Servizi Telefonici;the purpose of the meeting was (as indicated to Col. Miller on 7 Aug.1945) to put forward to the State an outline plan for the utilisation of a certain quantity of the equipment which has been recovered in Northern Italy and for the reactivation of additional circuits in Southern Italy.

1. Information given to Ing. Bifulco:

(1.1) At a certain time in the future the Allied Forces will release to the State the Transmission, power and miscellaneous equipment which has been recovered and is now stored at VERONA Repeater Station. The equipment to be released is the property of the Azienda di Stato ; nevertheless it is possible that the Allied Forces may impose certain limiting conditions as to its utilisation and/or reserve the right to withdraw equipment for Military purposes.

(1.2) The SIRTI hold on behalf of Nº 1 U.G.Cable Coy a quantity of 12 quad + 2 Pair Cable which is the property of the Azienda di Stato and is surplus to the military requirements of the Allied Forces.

2. Recommendations made to Ing. Bifulco:

I pointed out to Ing. Bifulco that with the limited quantity of material at his disposal it would not be advisable to consider any further reconstruction in the North, at this juncture;the damage over the section Napoli - Bologna is so heavy that a complete engineering and economic study will be required before final reconstruction can be considered. The damage South of Naples is not extensive and with a comparatively small expenditure of equipment and cable it would be possible to reactivate the complete pre-war network, the nedessary equipment and cable is available, and I strongly recommended that the State put this work in hand at an early date.

Director
Dy/Director
Chief Telecoms
Chief Postal
H Q.. Coms O.
Asst. Chief Postal
Censorship
Chief Clerk

CROSS REFS.
FILE T.64
B/ wd.
16 AUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

(3.1) My advice is that consideration be given to the reactivation of all loaded quads over the section ATENA - REGGIO CALABRIA. This can be accomplished by laying approximately 1600 meters of 12 ~~mm~~ quad cable (which is available see para (2.1) above) in the section TIRIOLO-VIBO VALENTIA, the additional 10 loaded quads made available to be equipped with Repeaters etc. at LARGONEGRO, CASTROVILLARI, COSENZA, TIRIOLO, VIBO-VALENTIA, REGGIO-CALABRIA.

(3.2) In addtion to the above recommendation (para 3.1 above) consideration should be given to the construction of a new repeater station at CALTANISETTA and the improvement of facilities at CATANIA and MILI MARINA Repeater Stations at both of which, particularly the latter, considerable work requires to be carried out, as regards additional equipment and reconstruction of the buildings.

4. In conclusion I informed Ing. Bifulco that subject to your approval I would be prepared to assist the Azienda di Stato in the Engineering of the project outlined above.

G.A.KEITH
Lieut. Colonel Royal Signals.

MILANO
13 AUG 45.

14 August 1945

5665

27

CABLE ENGINEERING INSTRUCTION Nº 1

ITALIAN STATE CABLE

TORINO - MODANE SECTION

SUSA SPUR CABLES

INFORMATION

1. At the present time there are 2 spur cables at SUSA, as follows:-

   (a) Spur Nº 1 The original spur consisting of a 5 quad U.G. Cable Terminating in the STIPEL Exchange.

   (b) Spur Nº 2 A 7 quad cable Terminating in a box mounted in a building in the vicinity of the Main Cable.

   (c) Spur Nº 1 carries circuits TORINO - SUSA. Pairs 11/12, 301/304, 501/504.

   (d) Spur Nº 2 carries circuits SUSA - BARDONECHIA direction. Pairs 11/12, 301/304, 501/504.

INTENTION

2. To provide additional circuits TORINO - SUSA.

METHOD

3. A 13 quad cable will be provided between the main cable (POZZETTO 232) and the STIPEL Exchange, this cable will be installed as an aerial cable.

4. This cable will be jointed to the main cable to provide 13 quads TORINO - SUSA using the following pairs:-

   Pairs Nºs 11 - 20 (H - 177 - 63)

   Pairs Nºs 301 - 308 } (H - 44 - 18)
   Pairs Nºs 501 - 508 }

5. The original 5 quad spur cable (UG) will be jointed to the main cable to provide 5 quads SUSA - BARDONNECHIA direction using the following pairs:-

   Pairs Nºs 11 - 20

6. The 7 quad spur cable will be thrown spare and recovered.

CABLE TERMINATIONS

7. The 13 quad cable will be terminated at the STIPEL Exchange,

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(d) Spur N° 2 carries circuits SUSA - BARDONECCHIA direction. Pairs 11/12, 301/304, 501/504.

INTENTION

2. To provide additional circuits TORINO - SUSA.

METHOD

3. A 13 quad cable will be provided between the main cable (POZZETTO 232) and the SIPTEL Exchange, this cable will be installed as an aerial cable.

4. This cable will be jointed to the main cable to provide 13 quads TORINO - SUSA using the following pairs:-

Pairs N°s 11 - 20 (H - 177 - 63)
Pairs N°s 301 - 308 } (H - 44 - 18)
Pairs N°s 501 - 508 }

5. The original 5 quad spur cable (UG) will be jointed to the main cable to provide 5 quads SUSA - BARDONNECHIA direction using the following pairs:-

Pairs N°s 11 - 20

6. The 7 quad spur cable will be thrown spare and recovered.

CABLE TERMINATIONS

7. The 13 quad cable will be terminated at the SIPTEL Exchange, SUSA on 2 SIRTI Type cable terminal heads.

SPECIAL PRECAUTIONS

8. A certain number of pairs in the existing spur cables are in service. Steps will be taken to ensure that service on these pairs is not interrupted and that TORINO Repeater Station Staff and the US SIGNAL CORPS Staff at SUSA (ALBERGO SUSA) are contacted before circuits are broken down or cut over.

STORES

9. Cable and jointing stores will be obtained from Stocks held at the SIRTI store, Milano

RESPONSIBILITIES

10. The SIRTI (Milano) will be responsible to Lt.Col Keith R.Sigs. for the Technical direction and carrying out of the work involved.

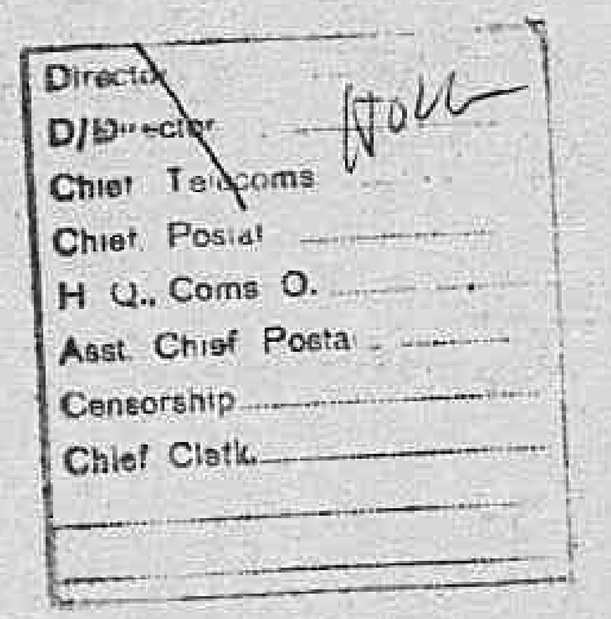
(B S [illegible]) Capt. R.Signals
Cable Officer
for Lt Col GA Keith R.Signals

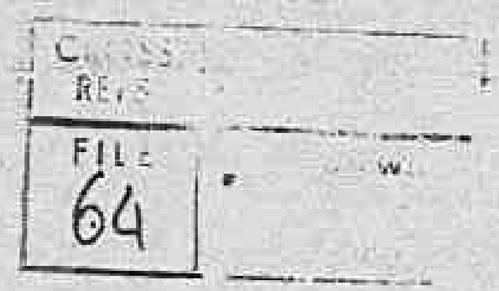
BSB/jcs

Declassified E.O. 12356 Section 3.3/NND No. 785015

DISTRIBUTION

CSO L of C Italy (Main)	2
CSO II District	1
Signal Officer	
Delta Base Section	1
Director,	
Communications	
Sub-Commission HQ, AC	1
CE, SIRTI, Milano	2
CE, SIRTI, Rome	1
OC 1 UG Cable Coy., R.Sigs	1
Transmission Officer	1
Cable Officer	1
War Diary	2
File	





Date

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

126

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64.26.CS 8 August, 1945

SUBJECT: Information re damaged cable.

TO : Under Secretary of State for PP.TT.

1. Herewith is a schedule showing details of work done on cables in North Italy.

2. The schedule is supplied for your information to enable you to plan future repairs and replacements.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Enclosure: 2 copies of Schedules.

716

5662

1437

Declassified E.O. 12356 Section 3.3/NND No. 785015

25

HEADQUARTERS ALLIED COMMISSION

APO 394

Communications Sub-Commission HTW/ec

T.64.25.CS 4 August 1945

SUBJECT: Ventimiglia - San Remo Cable.

TO : T.E.T.I., Lungotevere Marzio 11, Rome.

1. It is not known whether you are aware of the condition of the above cable, but particulars are roughly as follows:

2. Conductors - aluminium
Ventimiglia - Bordighera - underground cable - in good condition. A section is missing at a bridge, never having been laid. All loading coils are missing but are believed to be hidden locally.

Bordighera - San Remo - aerial cable - only slightly damaged.
Conductors: 13 mms. dia.

20 Quads with medium heavy loading
6 " " light "
2 " screened with very light loading.

In addition there are 25 quads for local service between San Remo and Ospedaletti and something similar at Ventimiglia.

3. As the overhead routes are in bad condition round Ventimiglia and Bordighera, it is thought that steps should be taken to complete the above cable.

5C.61

H.T. WEBBER,
Lt.Col.Sig.C.
Director.

Director	
D/Director	
Chief Telecoms	
Chief Postal	
H.Q. Coms O	
Asst Chief Postal	
Censorship	
Chief Clerk	

Class. Ref.	
FILE T.64	B/fwd.
Date 2 JAN 1945	

1 24

N° 1 Underground Cable Coy
Technical Office
Tel: Vicksburg 134

Ref: TS 51/1
30 July 45

Subject: Cable Maintenance Engineering
Instruction Amendment

To Distribution

Attached Amendment N° 2 to Appendix 'A' of CMEI N° 9 dealing with the maintenance of the T.E.T.I. U.G. Cable Network: Leghorn-Pisa - Lucca - Florence and Lucca - Spezia - Chiavari - Genoa - Savona.

(BS BURNS) Capt. R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

BSB/jcs

Distribution:

Information		Action	
CSO L of C Italy (Main)	4	Cable Officer	2
Dir. Comms Sub-Commission HQ AC	1	Transmission Officer	1
CSO Eighth Army	1	CE SIRTI MILAN	2
Sig Off Fifth Army	1	(for translation and distri-	
Sig Off PBS	2	bution to all SIRTI Mtnce Gps)	
CSO N° 1 District	1	CE SIRTI ROME	2
CSO N° 2 District	1	(for translation and distri-	
CSO N° 3 District	1	bution to all SIRTI Mtnce Gps)	
OC Fault Control BARI	1	Azienda di Stato, ROME	2
" " " NAPLES	1	Director, TETI, ROME	1
" " " ROME	1	(for translation and issue to	
" " " FLORENCE	1	Maintenance Group LUCCA)	
" " " BOLOGNA	1		
" " " ANCONA	1		
Lt Col GA Keith, R.Sigs	1		

Declassified E.O. 12356 Section 3.3/NND No. 785015

Savona.

(BS BURNS) Capt. R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

BSB/jcs

Distribution:

Information		Action	
CSO L of C Italy (Main)	4	Cable Officer	2
Dir. Comms Sub-Commission HQ AC	1	Transmission Officer	1
CSO Eighth Army	1	CE SIRTI MILAN	2
Sig Off Fifth Army	1	(for translation and distribution to all SIRTI Mtnce Gps)	
Sig Off PBS	2	CE SIRTI ROME	2
CSO N° 1 District	1	(for translation and distribution to all SIRTI Mtnce Gps)	
CSO N° 2 District	1	Azienda di Stato, ROME	2
CSO N° 3 District	1	Director, TETI, ROME	1
OC Fault Control BARI	1	(for translation and issue to Maintenance Group LUCCA)	
" " " NAPLES	1		
" " " ROME	1		
" " " FLORENCE	1		
" " " BOLOGNA	1		
" " " ANCONA	1		
Lt Col GA Keith, R.Sigs	1		
OC N° 1 UG Cable Coy. R.Sigs.	1		
OC 62 Group	1		
" 100 Group	1		
" 164 Group	1		
" 157 TE Section	1		
OC Maintenance Control PADUA	1		
" " " MILAN	1		
" " " FORLI	1		
" " " UDINE	1		
War Diary	2		
Files TS 51/1, TS 57/1			

Ing. FARIELLO
Azienda di Stato 1

Declassified E.O. 12356 Section 3.3/NND No. 785015

Ammendment N° 2 to Appendix 'A' of CMEI N° 9

1. Delete Paras 15 and 16 and insert new Paras 15 and 16 as follows:-

	Cable Sections	Location of Maintenance Gp	Technico in Charge	Method of Contact	Parent Fault Cntl
15	Leghorn-Lucca Lucca-Florence Lucca-Spezia	Lucca	Sig. Valgemigli or Sig.Calistri	Via Lucca Rept. Stat.	Florence
16	Spezia-Genoa-Savona	Genoa		Genoa Rept. Stat.	Bologna

Note:- Group N° 16 is not yet formed. Further details will be issued on formation of this T.E.T.I. Maintenance Group.

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Declassified E.O. 12356 Section 3.3/NND No. 785015

N° 1 Underground Cable Coy
Technical Office
Tel: Vicksburg 134
Ref: TS/42/19
28 July 45

Subject: F.E.T.I. Underground Cable
Lucca - Genoa

To Distribution

1. Herewith copies of Cable Pair layouts diagrams for the Lucca - Genoa cable, showing the pairs which will be available after repairs by this Company and attached S.I.R.T.I. are completed.

/

(BS BURNS) Capt., R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

BSB/jcs

Distribution:

CSO L of C Italy (Rear)	2	Lt Col GA Keith	1
SO 5 Army	1	Mr. Jacous	1
SO, PBS Leghorn	1	OC SIRTI, Milan	1
CSO, 2 District	2	OC STETI, Rome	1
Dir. Comms Sub-comm HQAC	2	OC CETI, Rome	4
OC Fault Control, Bologna	1	(for distribution to	
" " " Florence	1	Maintenance Parties)	
" Maint. " Milan	1	Cable Officer	2
Bologna R.S.	1	Transmission Officer	1
Genoa R.S.	1	OC 157 TE Section	2
Chievari R.S.	1	TS 42/19	
La Spezia R.S.	1	TS 49	
Lucca R.S.	1		

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BSP/jcs

(BS BURNS) Capt., R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

Distribution:

CSO L of C Italy (Main)	2	Lt Col GA Keith	1
SO 5 Army	1	Lt. Jacobs	1
SO, PBS Leghorn	1	OC SIRTI, Milan	1
CSO, 2 District	2	OC SIRTI, Rome	1
Dir. Comms Sub-comm HQAC	2	OC CITTI, Rome	4
OC Fault Control, Bologna	1	(for distribution to Maintenance Parties)	
" " " Florence	1	Cable Officer	2
" Maint. " Milan	1	Transmission Officer	1
Bologna R.S.	1	OC 157 TE Section	2
Genoa R.S.	1	TS 42/19	
Chiavari R.S.	1	TS 49	
La Spezia R.S.	1		
Lucca R.S.	1		

Director
D/Director
Chief Telecoms
Chief Postal
H Q Coms O
Asst Chief Postal
Censorship
Chief Clerk

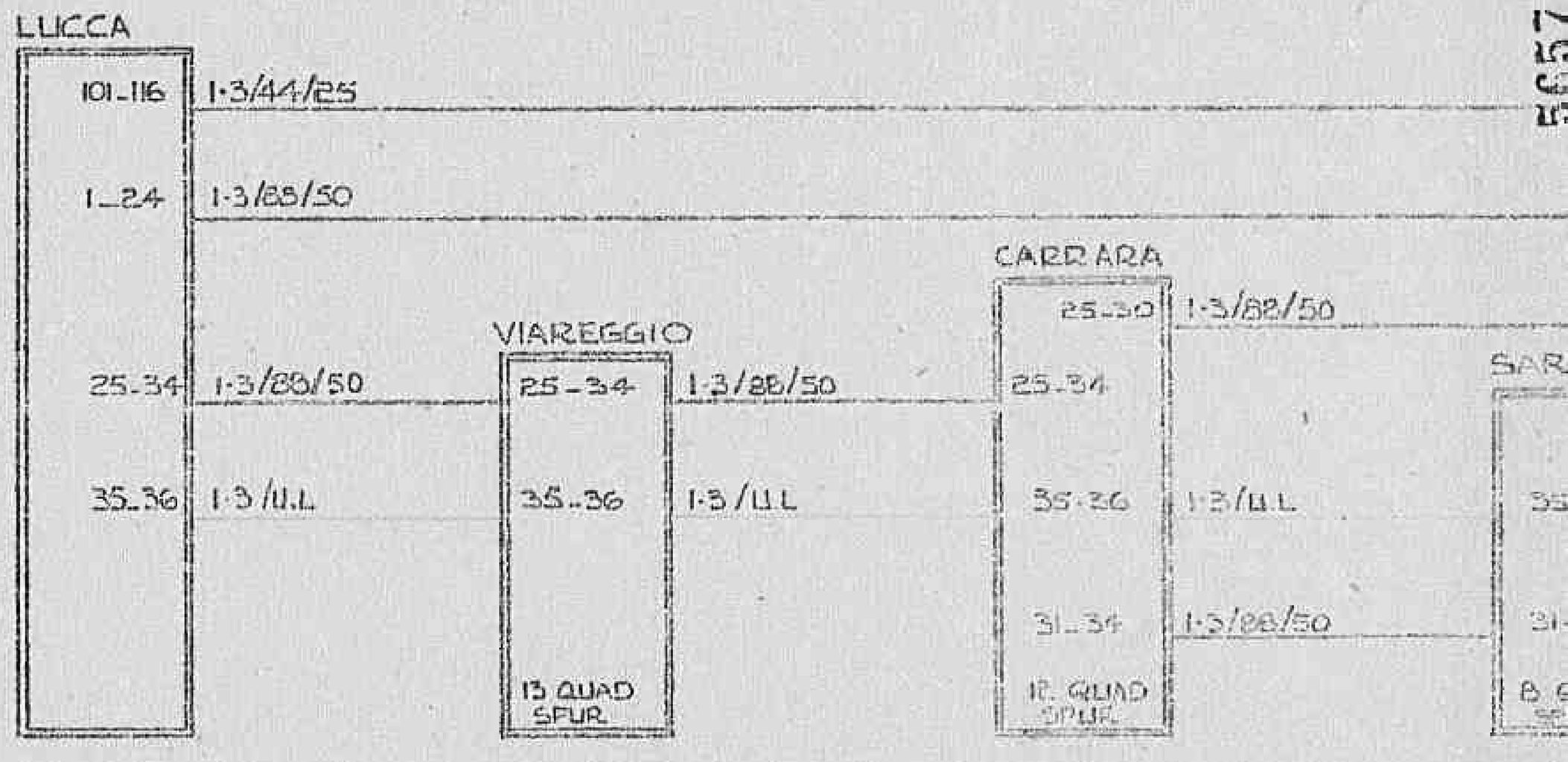
C.C.S. Rec'd
File Tubs
B/Fwd.
Date 1 AUG 1945

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AVAILABILITY OF PAIRS – LUCCA-SPEZIA-CHIAVARI-GENOA (T

AFTER REPAIRS BY ALLIED FORCES – JULY 1945.



NOTES: 1) ORIGINAL CABLE SIZE WAS 32 QUADS 1-3 mm CONDUCTORS.
2) BREAKS IN THE MAIN CABLE HAVE BEEN REPAIRED WITH 2x13 QUAD CABLES.
3) THE CABLE HAS BEEN RELOADED OVER THIS SECTION TO PROVIDE THE FOLL
8 QUADS – H. 44/25 – PAIRS 101–116
17 QUADS – H. 88/50 – " 1–34
1 QUAD – U.L " 35–36
4) DAMAGED LOADING POTS HAVE BEEN REPLACED BY 2x13 UNIT 48350/13
48350/7 POT PER LOADING POINT, CONNECTED IN SUCH A WAY AS TO PROVI
5) WHERE A LOADING POINT WAS FOUND UNDAMAGED THE 8 UNITS H44/25 OR
RESTORED TO SERVICE, THE 17 UNITS H88/50 BEING PROVIDED FROM 1x
1x7 UNIT 48350/7 POT.

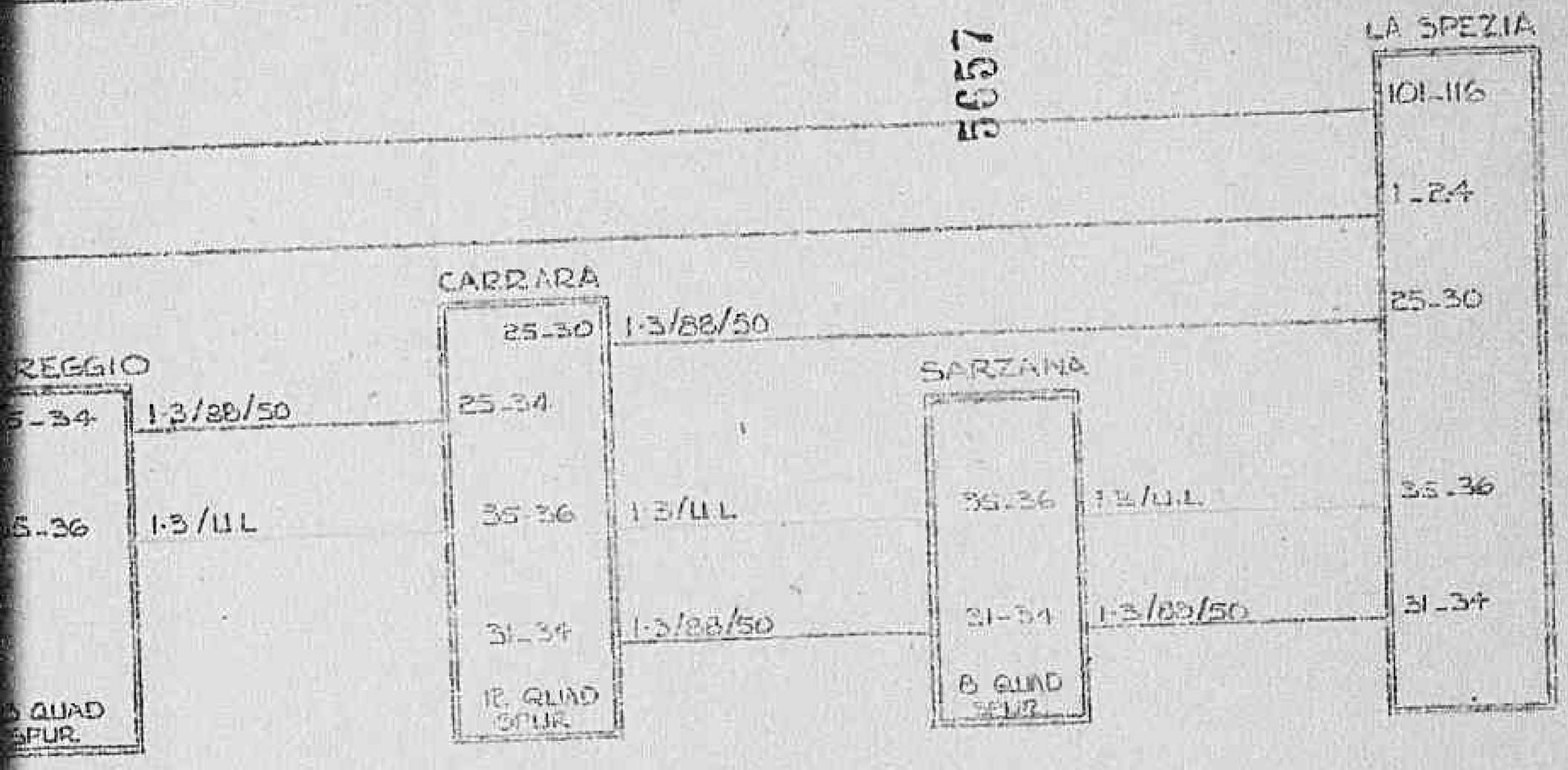
DRGN^ TSC 92.
22 JULY, 1945
JTS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

– LUCCA-SPEZIA-CHIAVARI-GENOA (TETI) CABLE

– Sheet. 1 –
LUCCA-SPEZIA

PAIRS BY ALLIED FORCES – JULY 1945.



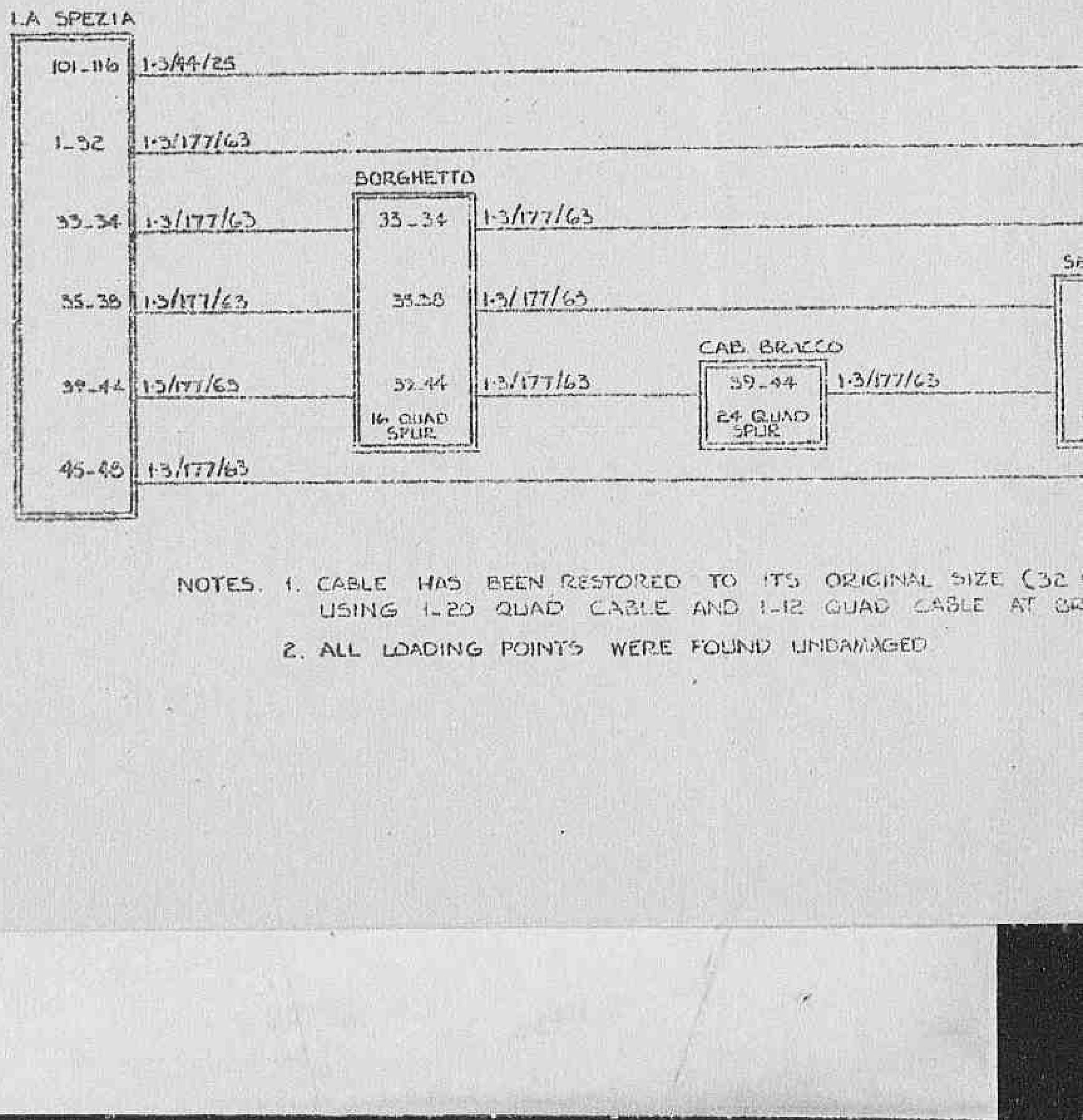
WAS 32 QUADS 1-3 low CONDUCTORS.
CABLE HAVE BEEN REPAIRED WITH 2x13 QUAD CABLES.
N RELOADED OVER THIS SECTION TO PROVIDE THE FOLLOWING :-

8 QUADS – H. 44/25 – PAIRS 101 – 116
17 QUADS – H 88/50 " 1 – 34
1 QUAD – U.L " 35 – 36

POTS HAVE BEEN REPLACED BY 2x13 UNIT 48330/13 POTS AND ONE 7 UNIT
OADING POINT, CONNECTED IN SUCH A WAY AS TO PROVIDE THE ABOVE LOADING.
POINT WAS FOUND UNDAMAGED THE 8 UNITS H 44/25 OF THE ORIGINAL POT ARE
ERVICE, THE 17 UNITS H88/50 BEING PROVIDED FROM 1x13 UNIT 48330/13 POT AND
POT.

CABLE OFFICER
No 1 UG CABLE COMPANY
R SIGNALS

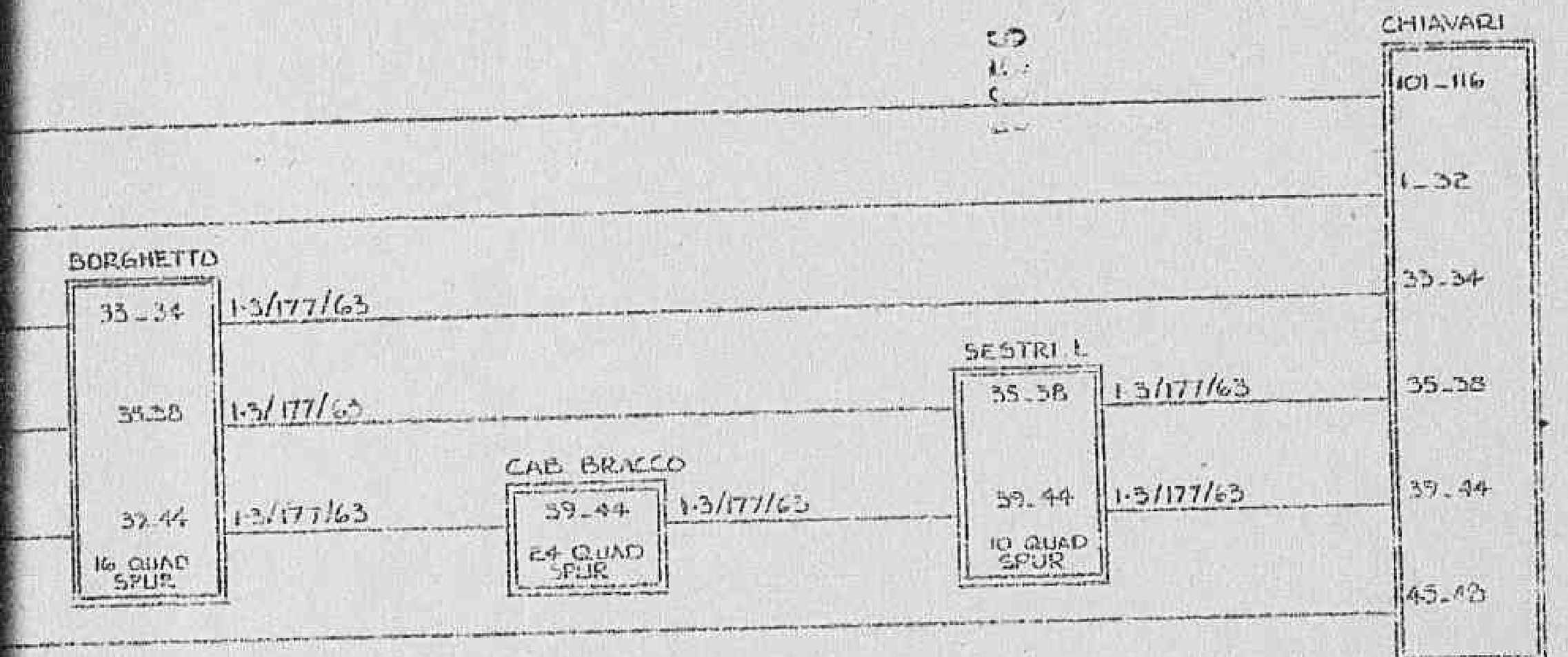
Declassified E.O. 12356 Section 3.3/NND No. 785015



NOTES. 1. CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE (32
USING 1-20 QUAD CABLE AND 1-12 QUAD CABLE AT
2. ALL LOADING POINTS WERE FOUND UNDAMAGED

Declassified E.O. 12356 Section 3.3/NND No. 785015

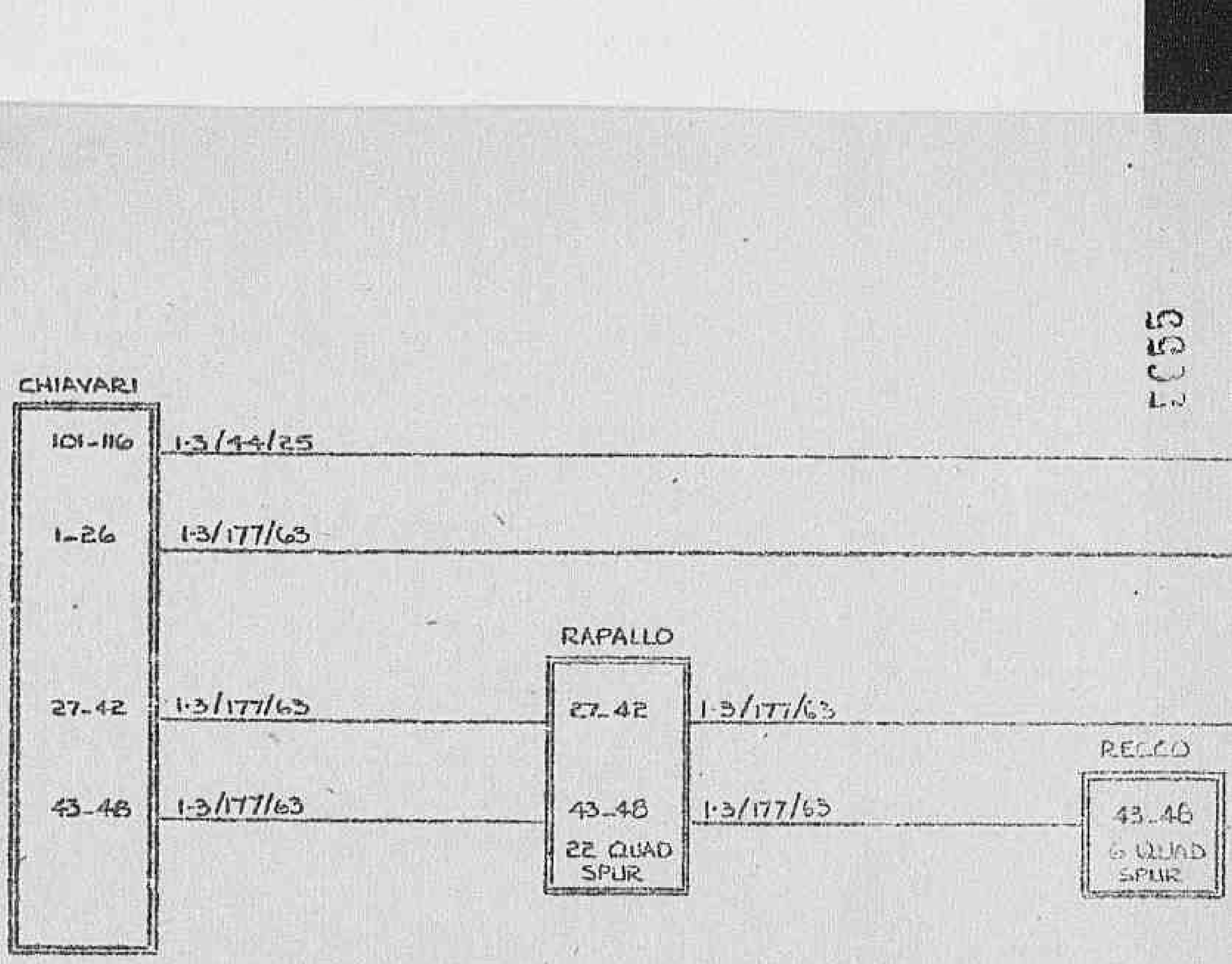
SPEZIA — CHIAVARI



CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE (32 QUADS 1-3 mm CONDUCTORS) USING 1-20 QUAD CABLE AND 1-12 QUAD CABLE AT BREAKS.

ALL LOADING POINTS WERE FOUND UNDAMAGED.

Declassified E.O. 12356 Section 3.3/NND No. 785015



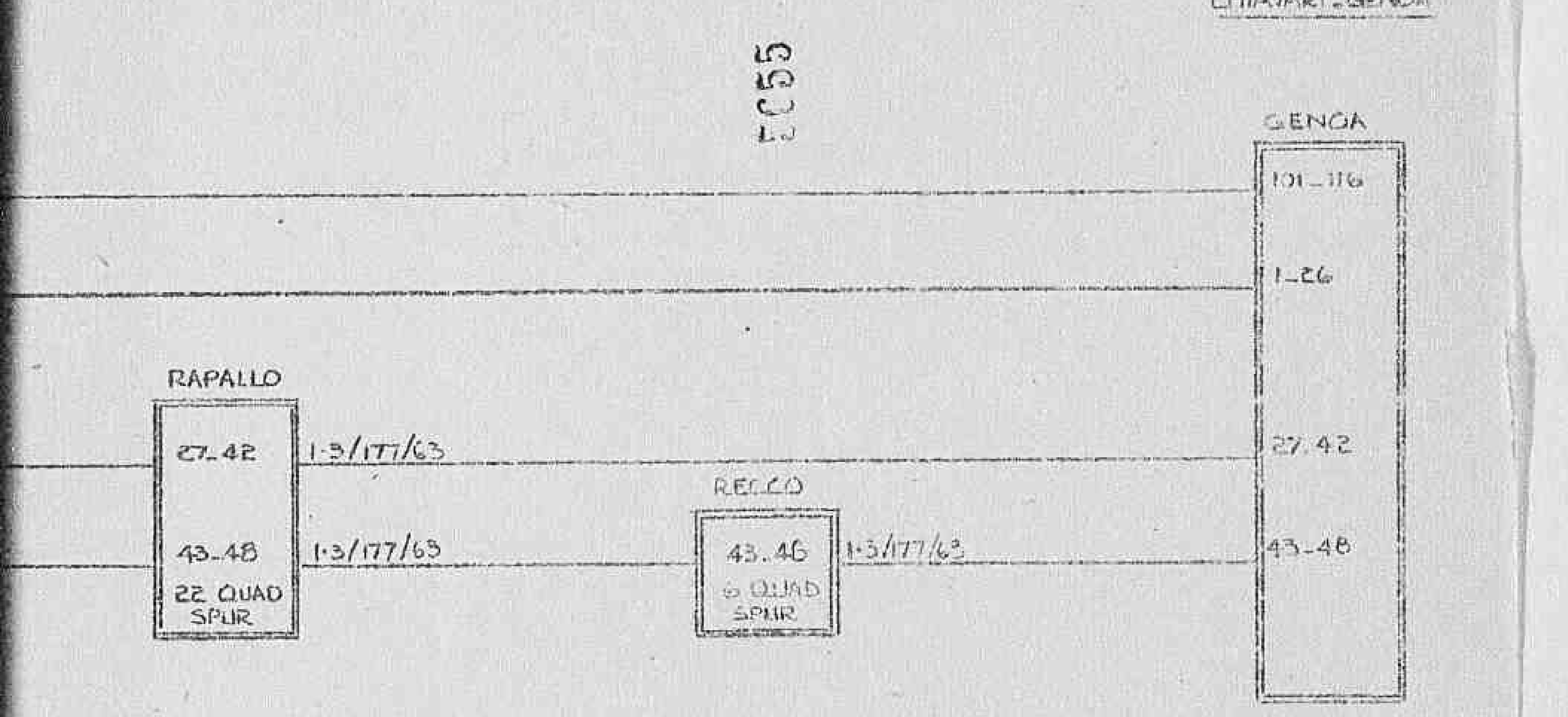
NOTES: 1 CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE (3
USING 1-20 QUAD CABLE AND 1-12 QUAD CABLE
2. ALL LOADING POINTS WERE FOUND UNDAMAGED

1443

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- Sheet 3 -
CHIAVARI - GENOA

E.E.S.S.



CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE (32 QUADS 1-3 mm CONDUCTORS) USING 1-20 QUAD CABLE AND 1-12 QUAD CABLE AT BREAKS.

ALL LOADING POINTS WERE FOUND UNDAMAGED.

123

N° 1 Underground Cable Coy
Technical Office
Tel: Wicksburg 134
Ref: T/ 42/21
28 July 45

Subject: Italian State Underground Cable
Northern Italy

To Distribution

Herewith copies of Cable Pair layout diagrams for the following cables, showing the pairs which are now available after repairs by this Company and attached S.I.R.T.I..

(a)	Milan	-	Casteggio I
(b)	Milan	-	Casteggio II
(c)	Casteggio	-	San Giuliano I
(d)	Casteggio	-	San Giuliano II
(e)	San Giuliano	-	Genoa I
(f)	San Guiliano	-	Genoa II
(g)	San Guiliano	-	Turin
(h)	Milan	-	Chiasso

(BS BURNS) Capt., R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

BSB/jcs

Distribution:

CSO L of C Italy (Main)	2	Lt Col GA Keith, R.Sigs	1
SO 5 Army	1	Mr. Jacobs	1
CSO 2 District	2	CE SIRTI MILAN	1
Dir. Comms Sub-Comm HQAC	2	CE SIRTI ROME	1
OC Fault Control BOLOGNA	1	Ing. Bertolacini	
" Maintenance " MILAN	1	Ing. Pauletti	

Declassified E.O. 12356 Section 3.3/NND No. 785015

following cables, showing the poles which are now available after repairs by this Company and attached S.I.R.T.I..

(a) Milan - Casteggio I
(b) Milan - Casteggio II
(c) Casteggio - San Giuliano I
(d) Casteggio - San Giuliano II
(e) San Giuliano - Genoa I
(f) San Guiliano - Genoa II
(g) San Guiliano - Turin
(h) Milan - Chiasso

BSB/jcs

(BS BURNS) Capt., R.Signals
Cable Officer
for Lt Col GA Keith R.Signals

Distribution:

CSO L of C Italy (Main)	2	Lt Col GA Keith, R.Sigs	1
SO 5 Army	1	Mr. Jacobs	1
CSO 2 District	2	CE SIRTI MILAN	1
Dir. Comms Sub-Comm HQAC	2	CE SIRTI ROME	1
OC Fault Control BOLOGNA	1	Ing. Bertolacini	1
" Maintenance " MILAN	1	Ing. Pauletti	1
Bologna R.S.	1	(3 for Maint. Parties)	
Milan R.S.	1	Cable Officer	1
San Giuliano R.S.	1	Transmission Officer	1
Turin R.S.	1	OC 157 TE Section	2
Casteggio C.H.	1	Azienda di Stato ROME	1

Files TS 42/21, TS 49

Director
D/Director
Chief Telecoms
Chief Postal
H Q Coms O.
Asst Chief Postal
Censorship
Chief Clerk.

REFS
FILE T.64
B/Fwd.
Date 1 ACO 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

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AVAILABILITY OF PAIRS MILAN -- CASTEG

AFTER REPAIRS CARRIED OUT BY ALLIED FORCES. JUL

43 QUAD CABLE

MILAN R/S.	
1-28	1-3/253/156
29-32	1-3/177/63
101-106	1-3/44/25
33-40	0-9/177/63
41-44	0-9/253/156
201-204	0-9/177/107
401-404	0-9/177/107
301-314	0-9/44/25
501-514	0-9/44/25

65 Kms
40 Miles.

NOTES: 1. BREAKS IN THE MAIN CABLE HAVE BEEN REPAIRED US
THE CABLE THEREFORE, HAS BEEN REPAIRED TO ITS O

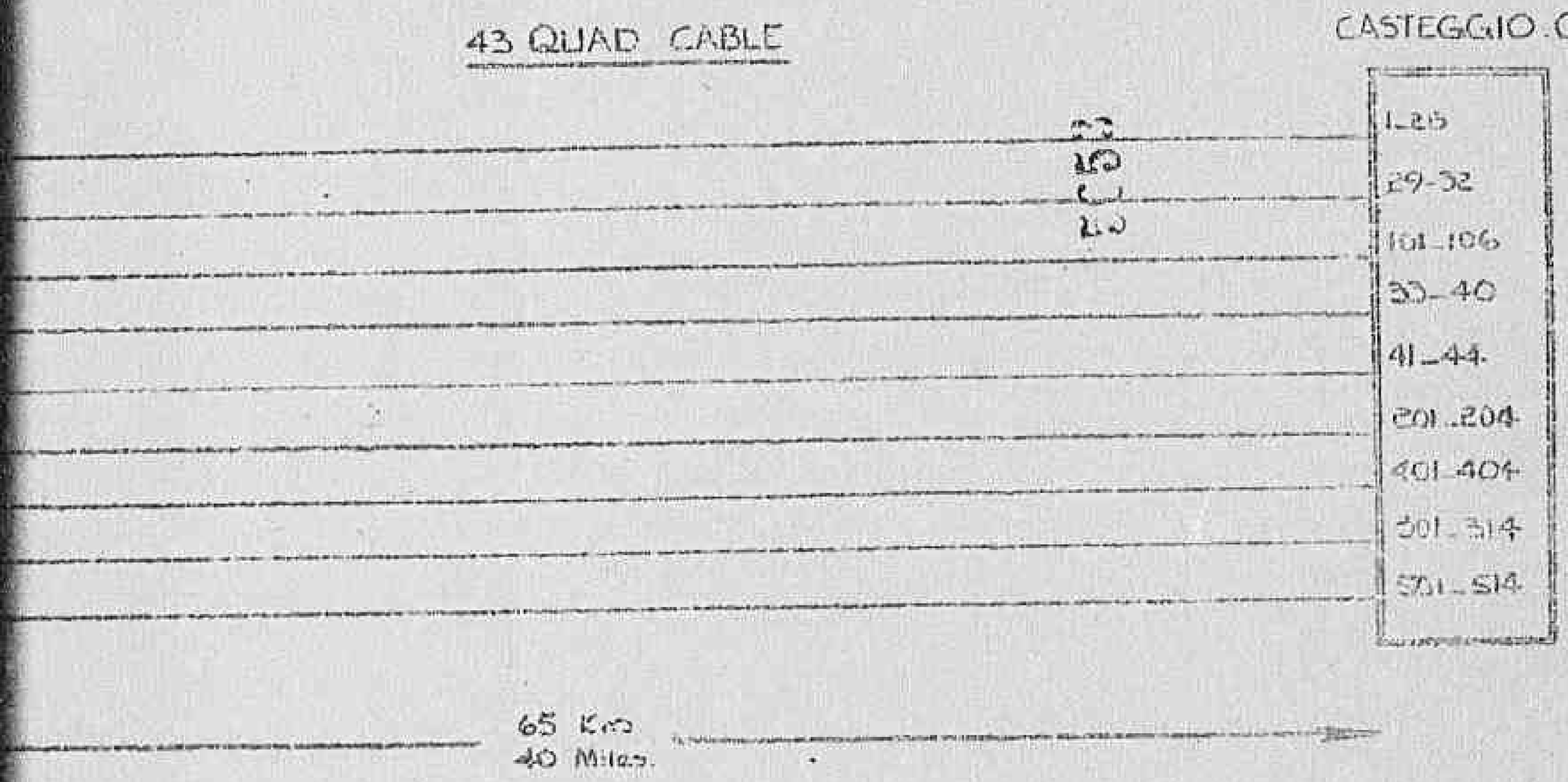
2. ALL LOADING POINTS WERE FOUND UNDAMAGED.

ORG N°. TSC 84
19 JULY. 1945
TA.

Declassified E.O. 12356 Section 3.3/NND No. 785015

VAILABILITY OF PAIRS MILAN – CASTEGGIO I

TER REPAIRS CARRIED OUT BY ALLIED FORCES. JULY 1945



AKS IN THE MAIN CABLE HAVE BEEN REPAIRED USING 2 x 29 QUAD CABLES CABLE THEREFORE, HAS BEEN REPAIRED TO ITS ORIGINAL SIZE.

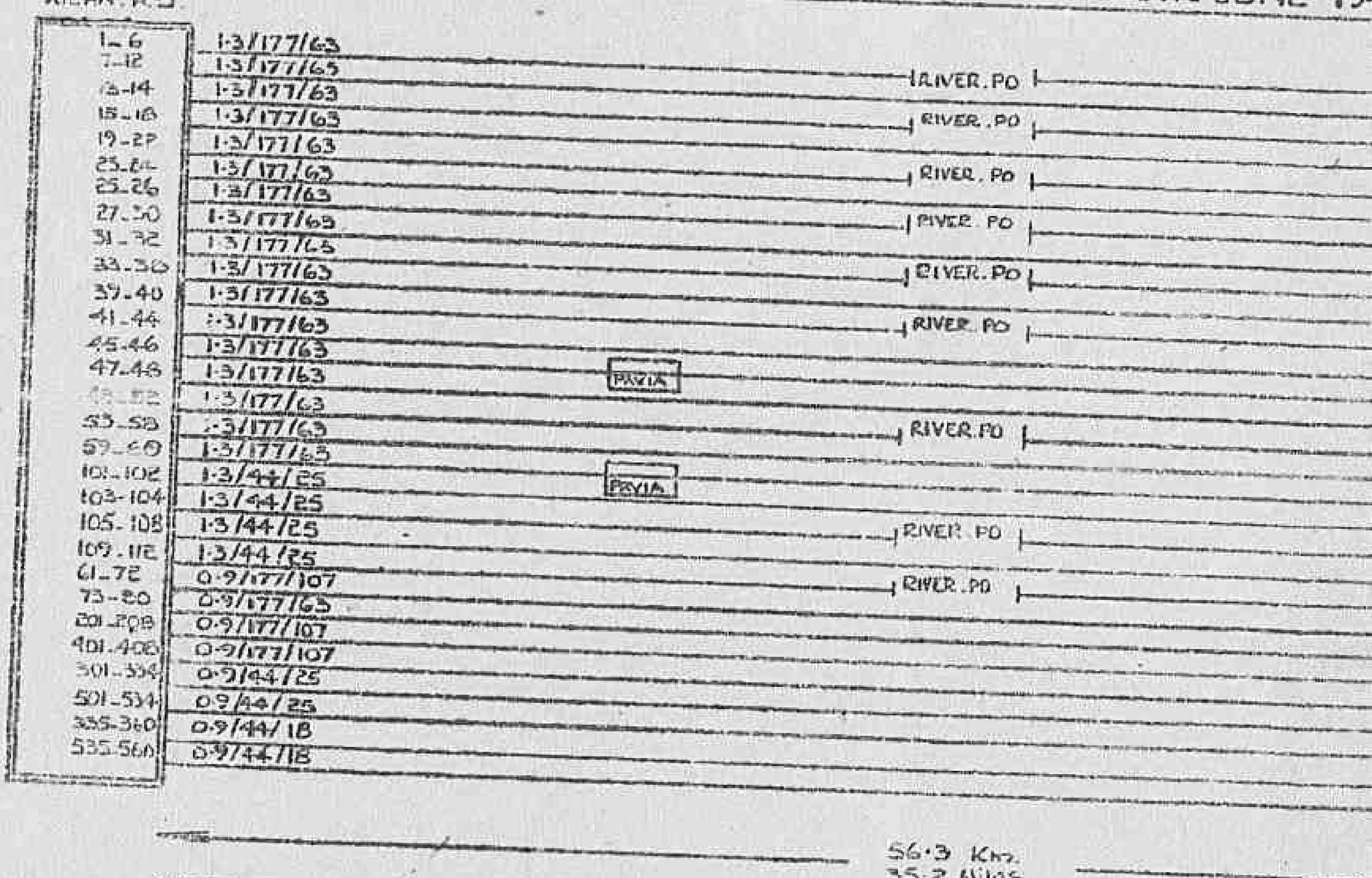
LOADING POINTS WERE FOUND UNDAMAGED.

J. F. Hall (Lt)
CABLE OFFICER
No 1 UG CABLE COMPANY
R. SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS MILAN – CASTEGGIO

AFTER REPAIRS BY SIRTI —— MAY. JUNE 19



56·3 Kms.
35·2 Miles

NOTES. 1. AT ALL POINTS EXCEPT THE RIVER PO THE CABLE HAS BEEN RE
ITS ORIGINAL SIZE (114 QUADS).

2. AT THE RIVER PO THE GERMAN SUBMARINE DIVERSION C
IS STILL IN SERVICE.

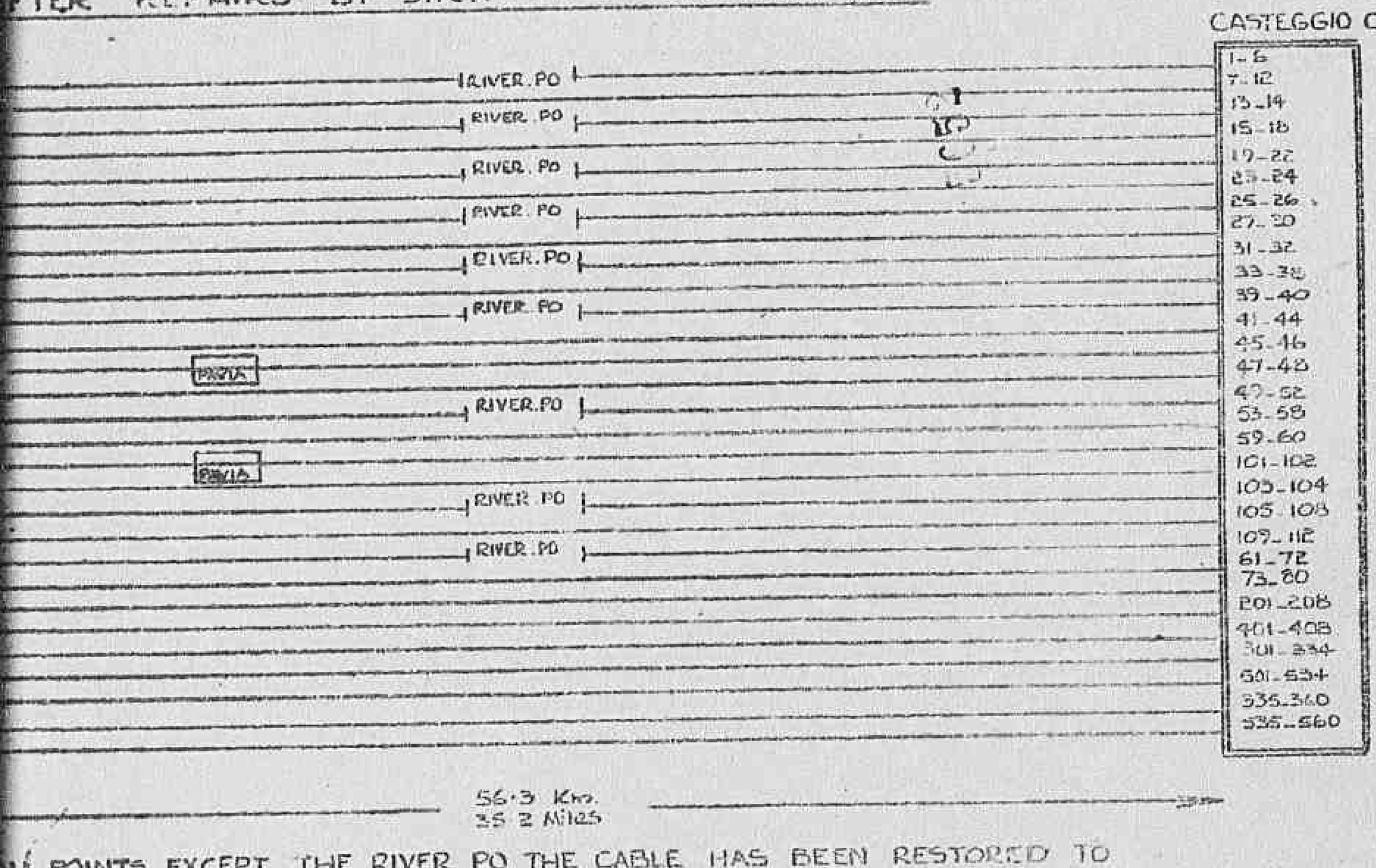
3. ALL LOADING POINTS WERE FOUND UNDAMAGED

DRG N° TSC. 85
20 JULY 1945
T.S.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AILABILITY OF PAIRS MILAN – CASTEGGIO II

FTER REPAIRS BY SIRTI —— MAY. JUNE 1945



ALL POINTS EXCEPT THE RIVER PO THE CABLE HAS BEEN RESTORED TO ORIGINAL SIZE (114 QUADS).

THE RIVER PO THE GERMAN SUBMARINE DIVERSION OF 200 PAIRS STILL IN SERVICE.

LOADING POINTS WERE FOUND UNDAMAGED

CABLE OFFICER.
N° 1 UG CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS CASTEGGIO – SAN GIUL

AFTER REPAIRS BY SIRTI MAY-JUNE 1945

CASTEGGIO CH.

51 QUAD CABLE

1-28	1·3/253/156
29-42	1·3/177/63
43-62	0·9/177/63
63-66	0·9/253/156
201-206	0·9/177/107
401-406	0·9/177/107
301-312	0·9/44/25
501-512	0·9/44/25

39·6 KM
24·7 Miles

NOTES 1. CABLE HAS BEEN RESTORED TO ITS ORI
2. ALL LOADING POINTS WERE FOUND UNDAM

DRG. N° TSC 89
21 JULY 1945
FB.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS CASTEGGIO – SAN GIULIANO I

AFTER REPAIRS BY SIRTI MAY-JUNE 1945

51 QUAD CABLE

S.GIULIANO R.S

/156	1-28
/63	29-42
/63	43-62
/156	63-66
/107	201-206
/107	401-406
25	301-312
25	501-512

39·6 KMS
24·7 Miles

NOTES 1. CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE.
2. ALL LOADING POINTS WERE FOUND UNDAMAGED.

CABLE OFFICER
N° 1 UG CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS — CASTEGGIO - S.GIULIA

AFTER REPAIRS BY SIRTI JUNE 1945

CASTEGGIO CM.

1_8	1-3/177/63
9_12	1-5/177/63
13_16	1-3/177/63
17_20	0-9/177/63
21_24	0-9/177/107
201_206	0-9/177/107
401_406	0-9/177/107
301_310	0-9/44/25
501_510	0-9/44/25
311_336	0-9/44/18
511_536	0-9/44/18
RADIO PAIR	1-3/H13

VOGHERA 1-3/177/63

38 Km.
24 Miles.

NOTES: 1. ORIGINAL CABLE SIZE WAS 86 QUADS, 32 OF WHICH

2. REPAIRS HAVE BEEN MADE USING 2x28 QU
LOADED QUADS ONLY HAVE BEEN JOINTED TH

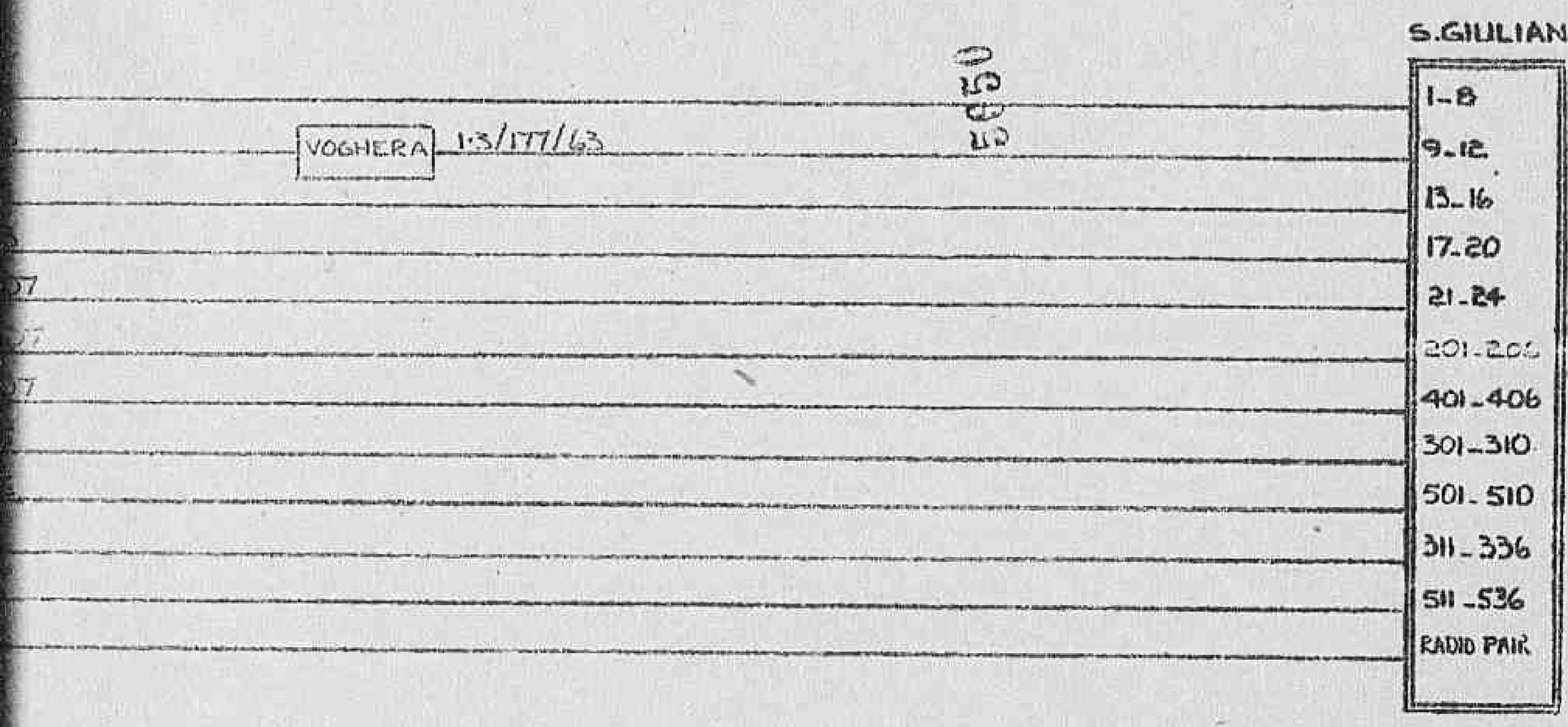
3. ALL LOADING POINTS WERE FOUND UNDAM

ORG N° TX 90.
21 JULY 1945
TB.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AILABILITY OF PAIRS — CASTEGGIO - S.GIULIANO II

AFTER REPAIRS BY SIRTI JUNE 1945



1. ORIGINAL CABLE SIZE WAS 86 QUADS, 32 OF WHICH WERE UNLOADED.
2. REPAIRS HAVE BEEN MADE USING 2x28 QUAD CABLES, AND LOADED QUADS ONLY HAVE BEEN JOINTED THROUGH.
3. ALL LOADING POINTS WERE FOUND UNDAMAGED.

CABLE OFFICER
No 1 U.G. CABLE COMPANY
R. SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS S.GIULIANO — GENO

AFTER REPAIRS BY SIRTI - JUNE. 1945

S GIULIANO RS.

35 QUAD CABLE

1-24	0·9/253/56
25-42	0·9/177/63
201-204	0·9/177/107
401-404	0·9/177/107
301-310	0·9/44/25
501-510	0·9/44/25

79·7 Km.
49·8 Miles.

NOTES: 1. CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZ
2. ALL LOADING POINTS WERE FOUND UNDAMAGED

D.G. Nº TSC. 87
21 JULY 1945
TTS

Declassified E.O. 12356 Section 3.3/NND No. 785015

ABILITY OF PAIRS S.GIULIANO — GENOA I

AFTER REPAIRS BY SIRTI — JUNE 1945

35 QUAD CABLE

GENOA R.S.

1-34
35-42
201-204
401-404
301-310
501-510

79·7 Kms
49·8 Miles

ABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE.
LL LOADING POINTS WERE FOUND UNDAMAGED

CABLE OFFICER
Nº 1 UG CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS S.GIULIANO — GEN

AFTER REPAIRS BY SIRTI - JUNE-JULY 1945

S.GIULIANO R.S.

1-40	0-9/177/63
301-320	0-9/44/18
501-520	0-9/44/18
321-330	09/UL
331-332	07/UL

SEE NOTE 4.

79·4 Km
49·6 Miles

NOTES: 1 ORIGINAL CABLE SIZE WAS 110 QUADS, 70 OF WHICH W
2 REPAIRS HAVE BEEN MADE USING 51 QUAD CABLE AT
3 ALL LOADING POINTS WERE FOUND UNDAMAGED.
4 QUADS SHOWN IN GREEN ARE UNLOADED.

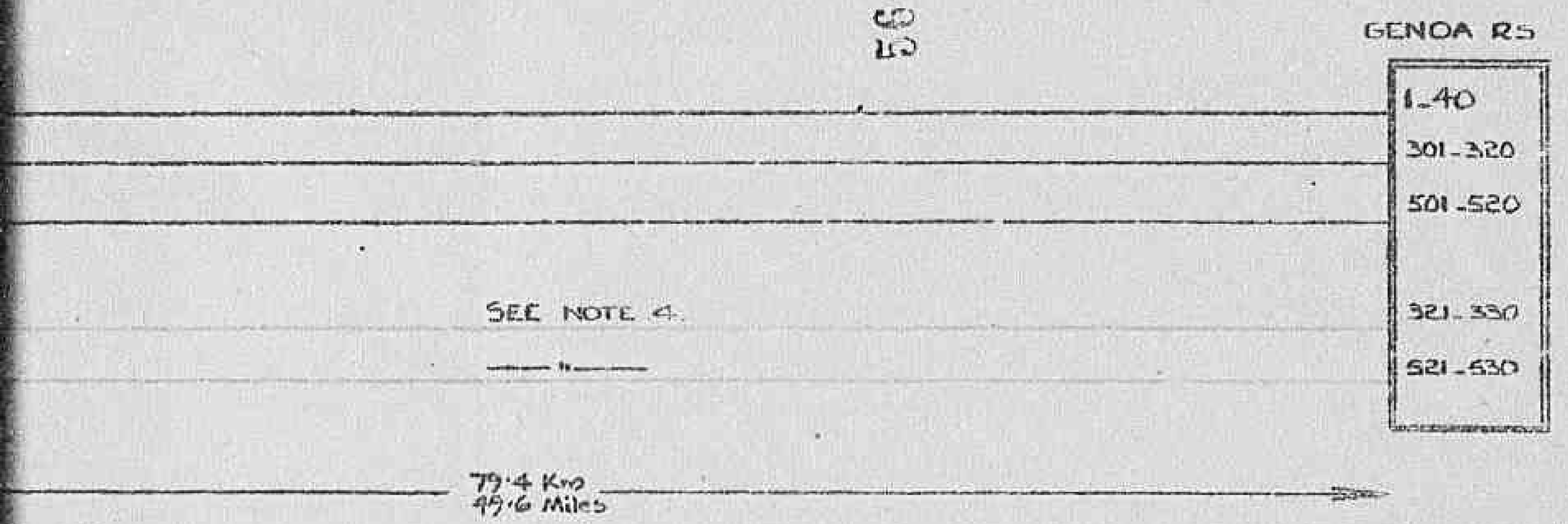
DRG N° TSC 58
21 JULY 1945
TCS

Declassified E.O. 12356 Section 3.3/NND No. 785015

ABILITY OF PAIRS S.GIULIANO — GENOA II

AFTER REPAIRS BY SIRTI - JUNE-JULY 1945

S.21
S.23
S.25



NAL CABLE SIZE WAS 110 QUADS, 70 OF WHICH WERE UNLOADED.
AIRS HAVE BEEN MADE USING 51 QUAD CABLE AT BREAKS.
LOADING POINTS WERE FOUND UNDAMAGED.
DS SHOWN IN GREEN ARE UNLOADED

CABLE OFFICER
No 1. LIG CABLE COMPANY.
R. SIGNALS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS S.GIULIANO - TURIN

AFTER REPAIRS BY ALLIED FORCES & SIRTI - JUNE - J

S GIULIANO R.S.

301-308	0·9/44/25
501-508	0·9/44/25
25-30	1·3/177/63/100
205-206	0·9/177/107/100
405-406	0·7/177/107/100
1-24	1·3/253/156
31-34	0·9/253/156
35-44	0·9/253/156
201-204	0·9/177/107
401-404	0·9/177/107

See note 1.

ALESSANDRIA

35-44	0·9/253/156

113 Kms.
70·5 M.iles.

NOTES. 1. ORIGINAL CABLE SIZE WAS 36 QUADS ALL OF WHICH WERE L

2. REPAIRS HAVE BEEN MADE USING ONE 2B QUAD AND ONE 1B Q

3. DAMAGED LOADING HAS BEEN REPLACED IN 10 LOADING 2x13 QUAD WE 42330/13 POTS JOINTED SO AS TO PROVIDE FOLLOWS :-
   8 QUADS H44/25
   5 QUADS H/177/63/107/100.

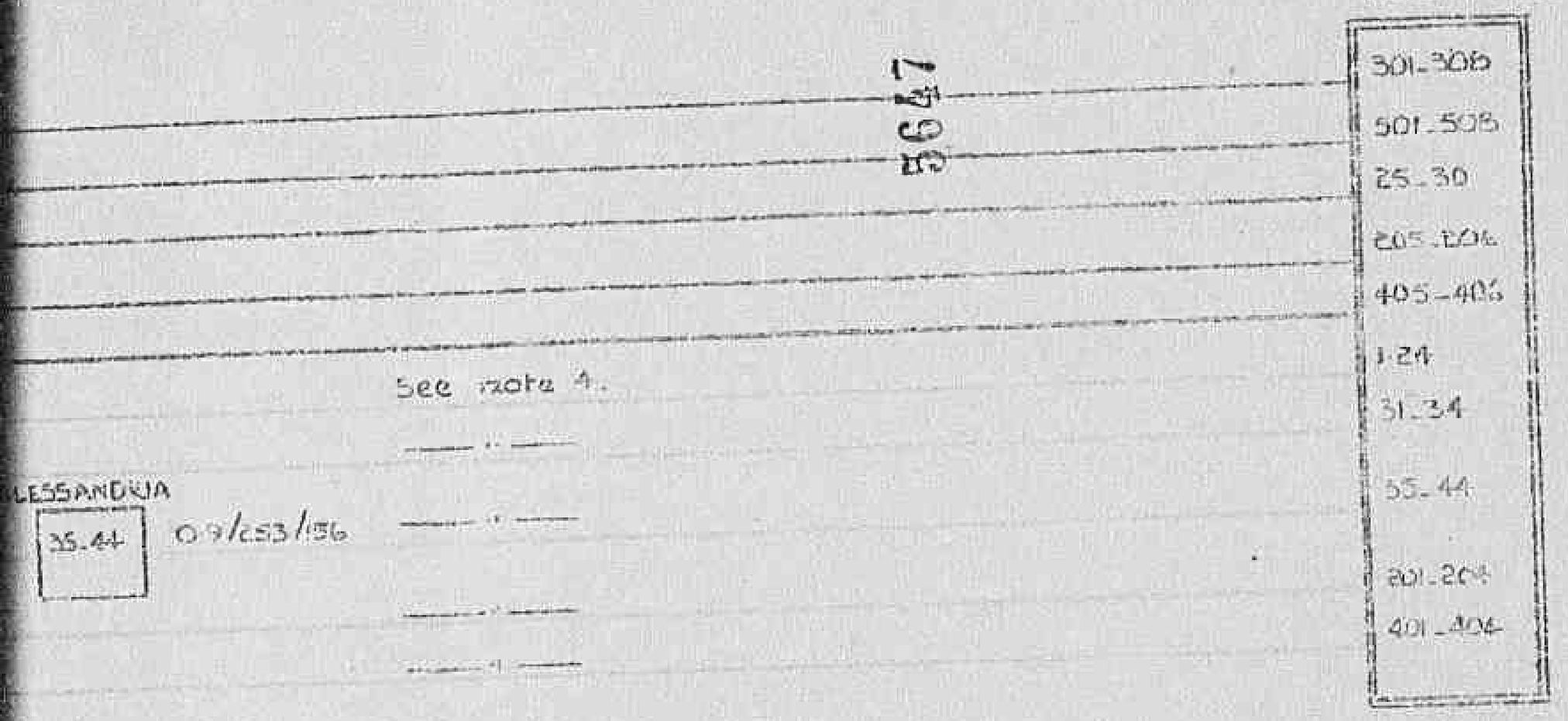
4. ALL "GREEN" QUADS ARE JOINTED STRAIGHT THROUGH AT LOADING POINTS.

DRG N° TSC 96
23 JULY 1945

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ITY OF PAIRS S.GIULIANO - TURIN

AIRS BY ALLIED FORCES & SIRTI - JUNE - JULY 1945



CABLE SIZE WAS 36 QUADS ALL OF WHICH WERE LOADED
HAVE BEEN MADE USING ONE 28 QUAD AND ONE 8 QUAD CABLE
LOADING HAS BEEN REPLACED IN 10 LOADING POINTS WITH
AD WE 46330/13 POTS JOINTED SO AS TO PROVIDE LOADING AS
:-
8 QUADS H44/25
5 QUADS H/177/63/107/100.

EN QUADS ARE JOINTED STRAIGHT THROUGH AT DAMAGED
POINTS.

CABLE OFFICER
No 1 UG CABLE COMPANY
R SIGNALS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS — MILAN — CHIASSO

AFTER REPAIRS BY SIRTI — JUNE 1945

MILAN RS.

51 QUAD CABLE

1-20	1·3/177/63
21-28	0·9/177/63
29-30	0·9/815·5 SEE NOTE 3
201-210	0·9/177/63
401-410	0·9/177/63
301-326	0·9/44/25
501-526	0·9/44/25

51 Km.
32 Miles

NOTES: 1. CABLE HAS BEEN RESTORED TO ITS ORIGINAL SIZE

2. ALL LOADING POINTS WERE FOUND UNDAMAGED.

3. PAIRS 29-30 ARE LOADED ON THE SIDES ONLY AND ONE "CANISTER" TYPE (15·5 mH) COIL BEING INSERTE POINT AND ALSO AT THE CENTRE POINT OF EACH AT THE TERMINALS AT MILAN AND CHIASSO A 7·75 IN PAIRS 29-30 TO PROVIDE "HALF COIL" TERMIN

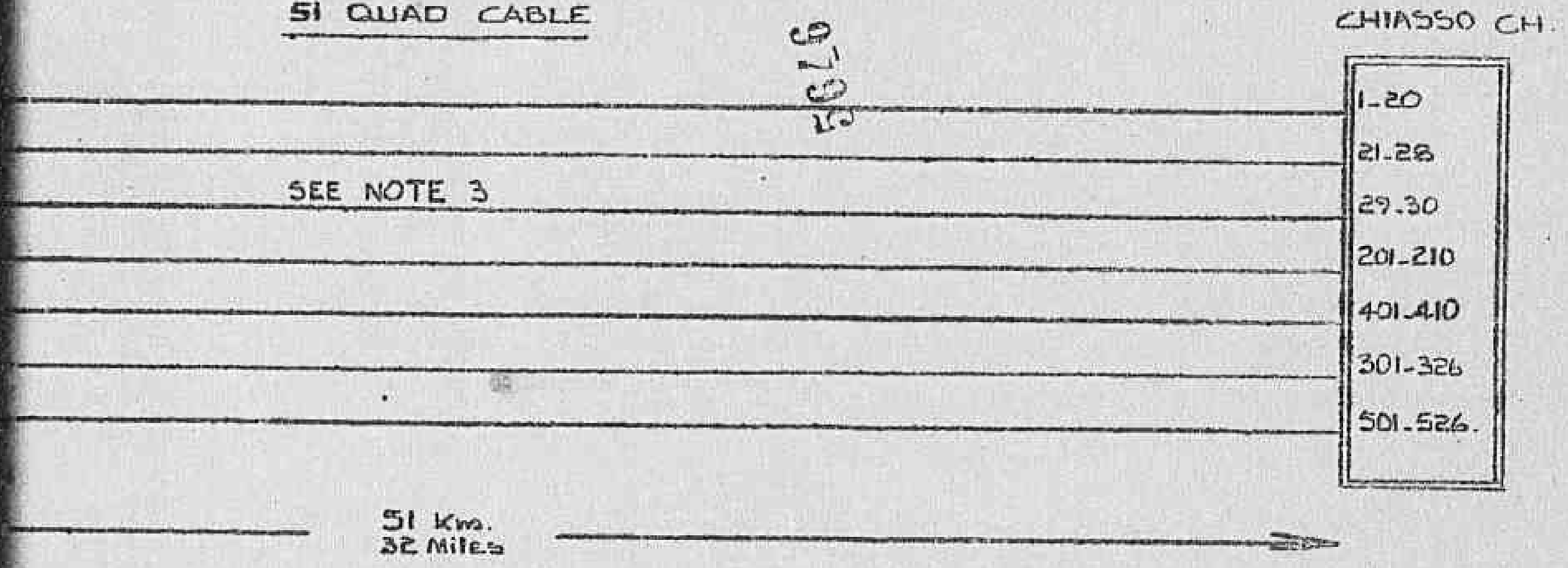
DRG Nº TSC. 91
21 JULY 1945.
TJS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

LITY OF PAIRS — MILAN — CHIASSO

REPAIRS BY SIRTI — JUNE 1945

51 QUAD CABLE



LE HAS BEEN RESTORED TO ITS ORIGINAL SIZE.

LOADING POINTS WERE FOUND UNDAMAGED.

RS 29-30 ARE LOADED ON THE SIDES ONLY AND ALSO 'B' LOADED,
AL "CANISTER" TYPE (15·5 mH) COIL BEING INSERTED AT EACH LOADING
NT AND ALSO AT THE CENTRE POINT OF EACH LOADING COIL SECTION.
THE TERMINALS AT MILAN AND CHIASSO A 7·75 mH COIL IS INSERTED
PAIRS 29-30 TO PROVIDE "HALF COIL" TERMINATIONS.

CABLE OFFICER
No 1. LIG. CABLE COMPANY
R. SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

(22)

HEADQUARTERS ALLIED COMMISSION
AFO 394
Communications Sub-Commission HTWM/ec

T.64. .CS 30th July, 1945

SUBJECT: Provision of repeater Equipment.

TO : Under Secretary of State for PF.TT.

Would you Kindly place an order on the SIRTI for the installation work specified in the attached memo.

H.H.SCUDDER,
Lt.Col.Sig.C.
Director.

Enclosure: Memo of 25th July.

File

5645

T.64

N° 1 Underground Cable Coy.
Technical Office
Tel: Vicksburg 134
Ref: TS 45/25
25 July 45

121

Subject: Italian State U.G. Cable System
Provision of Civil Type Repeater Equipment
Northern Italy

To: Director, Communications Sub-Commission
H.Q., A.C. (2 copies)

see 11

1. Further to letter TS 45/25 of 2 July 1945, it is now possible to detail the repair work which is at present in hand by the S.I.R.T.I. at the remaining Repeater Stations in Northern Italy.

2. This work is detailed in the attached Appendix.

3. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the S.I.R.T.I. for the carrying out of this work. The S.I.R.T.I. have been instructed to proceed with the work, pending the receipt of the order in order to release the Military type equipment for service.

(RSI OGDEN) Major, R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO/jcs

Copies to: CSO L of C Italy (Main)
CE, SIRTI, Roma

Declassified E.O. 12356 Section 3.3/NND No. 785015

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(RSI OGDEN) Major, R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO/jcs

Copies to: CSO L of C Italy (Main)
CE, SIRTI, Roma
CE, SIRTI, Milano
Lt Col GA Keith, R.Sigs (2)
SIRTI, Bologna (Installation Group)
War Diary (2)
Transmission Officer
Repeater Station Files Concerned

Director	
D/Director	
Chief, Telecoms	
Chief, Postal	
H. Q., Coms. O.	
Asst. Chief Postal	
Censorship	
Chief Clerk	

CROSS. REFS.	
FILE T.64	B/Fwd. 5644

D/ 30 [illegible] 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Appendix to N° 1 U.G. Cable Coy. Letter TS 45/25 of 25 July 1945

1. PADUA R.S.

(a) S.I.R.T.I. to recover all the damaged equipment, and to install, test out, and bring into service the following Siemens type equipment:-

4 wire Repeaters	50
2 wire Repeaters (with 20/20 Panels)	30
500/20 Signalling Units	40
4 wire Terminating Sets	30

(b) S.I.R.T.I. to install and bring into service British "Standard" type 500/20 cps and 20 cps Supply Bay (supplied by Allied Forces), with power supplies (130v. and 24 volt).

(c) The Power Plant and Test Desk have already been repaired by the State authorities in conjunction with Allied Forces. Overall tests preparatory to the bringing into service of the equipment are to be carried out by the S.I.R.T.I.

2. UDINE R.S.

The repair of the existing equipment at this Station is at present in hand by Allied Forces in conjunction with S.I.R.T.I. and the State authorities. Technical assistance, as required, is being provided by the S.I.R.T.I., who will also be responsible for the overall tests and bringing into service of the Station. The following equipment is being supplied by S.I.R.T.I.:-

2	20 cps Machines
1	Portable D.C. Bridge (F.A.C.E. Type)

3. PLEZZO R.S. (To be rebuilt as a "Standard" type Station)

S.I.R.T.I. to carry out the following work:-

(a) Recover the complete damaged installation.

Declassified E.O. 12356 Section 3.3/NND No. 785015

(b) S.I.R.T.I. to install and bring into service British "Standard" type 500/20 cps and 20 cps Supply Bay (supplied by Allied Forces), with power supplies (130v. and 24 volt).

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2	20 cps Machines
1	Portable D.C. Bridge (F.A.C.E. Type)

3. PLEZZO R.S. (To be rebuilt as a "Standard" type Station)

S.I.R.T.I. to carry out the following work:-

(a) Recover the complete damaged installation.

(b) In cooperation with personnel of Allied Forces, install, test out and bring into service the following equipment:-

36	4 wire Repeaters	"Standard" Type
22	2 wire Repeaters	
10	20/20 Signalling Units	
1	130 volt Rectifier	
1	24 volt Rectifier	
1	Power Switchboard (to be constructed by SIRTI Milano)	
2	20 cps Machines	
1	24 volt Motor/Generator Set	
1	130 volt Motor/Generator Set	
1	Portable D.C. Bridge	
1	Grid Bias supply panel	
	Service Line and alarm panels	

5643

Declassified E.O. 12356 Section 3.3/NND No. 785015

(c) Repair and rearrange the existing batteries to provide the following:-

1	24 volt Battery
1	130 volt Battery
2	Grid Bias Batteries

(d) Repair the existing T.M.S. and supply 1 Portable D.C. Bridge (F.A.C.E. Type) for cable testing

4. FIRENZE R.S.

In order to release from service the remaining bay of Military Type repeater, S.I.R.T.I are to install 1 additional bay of 16 4 wire Repeaters.

5. CAMPOSANTO & OSTIGLIA Repeater Stations.

Temporary installations have been carried out at these two Stations by the German U.G. Cable Battalion ("Feldschalt-abteilung Z.b.v. 1.").

S.I.R.T.I. are now to complete these two installations providing additional Power Plant as necessary

6. 1 + 1 Carrier Equipment Installations.

S.I.R.T.I. to carry out the installations of equipment, as detailed in this Company's Memorandum TS 48/6 of 11 July 1945 comprising the following apparatus:-

BOLOGNA R.S.	16 Terminals
FIRENZE R.S.	8 Terminals

the work to include the installation, testing out and bringing into service of the equipment in accordance with the layout given in the above Memorandum.

(RSI OGDEN) Major, R.Signals

RSIO/ics

Declassified E.O. 12356 Section 3.3/NND No. 785015

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BOLOGNA R.S.	16 Terminals
FIRENZE R.S.	8 Terminals

the work to include the installation, testing out and bringing into service of the equipment in accordance with the layout given in the above Memorandum.

RSIO/jcs
25 July 45

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals

5642

Declassified E.O. 12356 Section 3.3/NND No. 785015

N° 1 Underground Cable Coy
Technical Office
Tel: Vicksburg 134
Ref: TS 57/1
13 July 45

Subject: Cable & Repeater Station Maintenance
BOLOGNA - BRENNER Cable

220

To CSO L of C Italy (Main)

1. W.e.f. July 12 1945, all German personnel of the German U.G. Cable Battalion have been removed from construction and maintenance work on the BOLOGNA - BRENNER Cable.

2. The Repeater Station Maintenance has been taken over by personnel of the Azienda di Stato per i Servizi Telefonici, with temporary assistance from S.I.R.T.I. at VERONA and ALA Repeater Stations.

The Cable Maintenance has been taken over by S.I.R.T.I. Maintenance Group located at CSERIOLA and ROVERETTO.

3. The German Battalion have been assembled at ALA Repeater Station and are being dispersed under arrangments made by H.Q., 5 Army.

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith R.Signals
N° 1 UG Cable Coy. R.Signals

RSIO/jcs

Copies to: Signal Officer, 5 Army
Director Communications Sub-Commission, HQ,AC.
Azienda di Stato per i Servizi Telefonici, Roma
Lt Col GA Keith, R.Sigs.
Major Ayres, AC/AMG BOLOGNA
CE SIRTI Roma
CE SIRTI Milano
TS 57/2, TS 40/37

Declassified E.O. 12356 Section 3.3/NND No. 785015

personnel of the Azienda di Stato per i Servizi Telefonici, with temporary assistance from S.I.R.T.I. at VERONA and ALA Repeater Stations.

The Cable Maintenance has been taken over by S.I.R.T.I. Maintenance Group located at OSTIGLIA and ROVERETTO.

3. The German Battalion have been assembled at ALA Repeater Station and are being dispersed under arrangments made by H.Q., 5 Army.

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith R.Signals
No 1 UG Cable Coy. R.Signals

RSIO/jcs

Copies to: Signal Officer, 5 Army
Director, Communications Sub-Commission, HQ,AC.
Azienda di Stato per i Servizi Telefonici, Roma
Lt Col GA Keith, R.Sigs.
Major Ayres, AC/AMG BOLOGNA
CE SIRTI Roma
CE SIRTI Milano
TS 57/2, TS 45/37
War Diary (2)

Director
D/Director
Chief Telecoms
Chief Postal
H Q Corps O
Asst Chief Postal
Censorship
Chief Clerk

Primary Cor Files

CROSS REFS 5641
FILE 1.64
Date 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

CROSS. REFS.

FILE 64 - S/Fwo

1 Underground Cable
Technical Office
MEMORANDUM

D... TS 48/6
Chief Telecoms
Chief Postal
ROMA Comm. O.
Asst. Chief Postal
Censorship
Chief Clerk

Date Provision of 1 + 1 Carrier Equipment NAPOLI - ROMA - FIRENZE - BOLOGNA

INTRODUCTION

1. Owing to the shortage of Loading Equipment, replacement cable and the very heavy damage sustained, it has been possible to restore to service 33 quads between NAPOLI and ROMA and 34 quads between ROMA and BOLOGNA.

It is now necessary to consider the practicability of increasing the circuit availability by the use of 1 + 1 Carrier equipment of F.A.C.E. or ALLOCHO BACHINI type.

EXISTING 1 + 1 EQUIPMENT

2. The attached diagram shows the existing 1+1 Carrier Equipment which has been installed in Southern Italy by, and on behalf of Allied Forces.

In considering the extension of the use of 1 + 1 Equipments on 4 wire phantoms loaded H 44/25 or H 44/18, two important considerations must be borne in mind:-

(a) Owing to the damage suffered by the cable, and the large number of replacement lengths which have been jointed in without rebalancing the section it is unlikely that more than 75% of the Phantom Circuits between ROMA and BOLOGNA will give sufficiently good Crosstalk results for the operation of 1 + 1 Carrier Channels. This figure is likely to be about 50% over the FIRENZE - BOLOGNA section initially, owing to the other contributory factor given in (b)

(b) The FIRENZE - BOLOGNA section is being used without the intermediate Repeater Station at LOIANO. A repeater section 68 miles in length is therefore in operation at present between FIRENZE - BOLOGNA, the 4 wire pairs having an attenuation of approximately 32 db.

PROPOSALS FOR A STAGE I INSTALLATION OF 1 + 1 CARRIER EQUIPMENT

3.1 A considerable quantity of equipment of F.A.C.E. and Allocho Bachini type has been found in Austria and is being transh-

Declassified E.O. 12356 Section 3.3/NND No. 785015

2. The attached diagram shows the existing 1+1 Carrier Equipment which has been installed in Southern Italy by, and on behalf of Allied Forces.

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(a) Owing to the damage suffered by the cable, and the large number of replacement lengths which have been jointed in without rebalancing the section it is unlikely that more than 75% of the Phantom Circuits between ROMA and BOLOGNA will give sufficiently good Crosstalk results for the operation of 1 + 1 Carrier Channels. This figure is likely to be about 50% over the FIRENZE - BOLOGNA section initially, owing to the other contributory factor given in (b)

(b) The FIRENZE - BOLOGNA section is being used without the intermediate Repeater Station at BOLLNO. A repeater section 68 miles in length is therefore in operation at present between FIRENZE - BOLOGNA, the 4 wire pairs having an attenuation of approximately 32 db.

PROPOSALS FOR A STAGE I INSTALLATION OF 1 + 1 CARRIER EQUIPMENT

3.1 A considerable quantity of equipment of F.A.C.E. and Allocho Bachini type has been found in Austria and is being transported to VERONA. Equipment having a Carrier Frequency of both 6 Kc and 5.3 Kc is available, but the exact quantities of the two types of equipment is not yet known.

3.2 It is also understood that sufficient Filter Sections are available at the F...C.E. Factory for the modification of 12 Terminals of the 6 Kc type equipment to be suitable for use with a Carrier Frequency of 5.3 Kc.

3.3 It is proposed that the following additional Terminals be installed :-

At FIRENZE	8	TERMINALS
At BOLOGNA	13	TERMINALS

This equipment can be operated as in the attached diagram (2). This layout utilises all available 4 wire phantom circuits between ROMA and BOLOGNA, whilst involving no additional installation at ROMA and NAPOLI.

5640

Declassified E.O. 12356 Section 3.3/NND No. 785015

3.4 It is unlikely that crosstalk considerations will permit of the operation of all this equipment at the outset.

The completion of any partial rebalancing of the ROMA-FIRENZE and FIRENZE - BOLOGNA cables which may be practicable should considerably increase the possibility of operating the maximum amount of 1 + 1 Carrier Equipment. Also the installation of a new Repeater Station at LODANO which should be given a high priority after the completion of the more important repair and reinstallation work in Northern Italy, will also contribute to the reduction of the crosstalk between FIRENZE and BOLOGNA.

3.5 It is therefore proposed to continue with the installation of the equipment in due course, and provide carrier channels on phantoms which give sufficiently good crosstalk results. It is not practicable at this stage to state how many channels will be provided

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
N° 1 UG Cable Coy.R.Signals

11 JULY 45
RSIO/jcs

Distribution

CSO L of C Italy (Main)	2
Director, Comms Sub-Com HQ AC	2
Lt Col GA Keith, R.Sigs.	1
Mr CW Jacobs	1
CE SIRTI ROMA	1
CE SIRTI MILANO	1
Ing. Del Negro SIRTI	1
Transmission Officer	1
Cable Officer	1
TS 45/25, TS 42/16	

Declassified E.O. 12356 Section 3.3/NND No. 785015

the crosstalk between FIRENZE and BOLOGNA.

3.5 It is therefore proposed to continue with the installation of the equipment in due course, and provide carrier channels on phantoms which give sufficiently good crosstalk results. It is not practicable at this stage to state how many channels will be provided

11 JULY 45
RSIO/jcs

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
N° 1 UG Cable Coy.R.Signals

Distribution

CSO L of C Italy (Main)	2
Director, Comms Sub-Com HQ AC	2
Lt Col GA Keith, R.Sigs.	1
Mr CW Jacobs	1
CE SIRTI ROMA	1
CE SIRTI MILANO	1
Ing. Del Negro SIRTI	1
Transmission Officer	1
Cable Officer	1
TS 45/25, TS 42/16	1

5F639

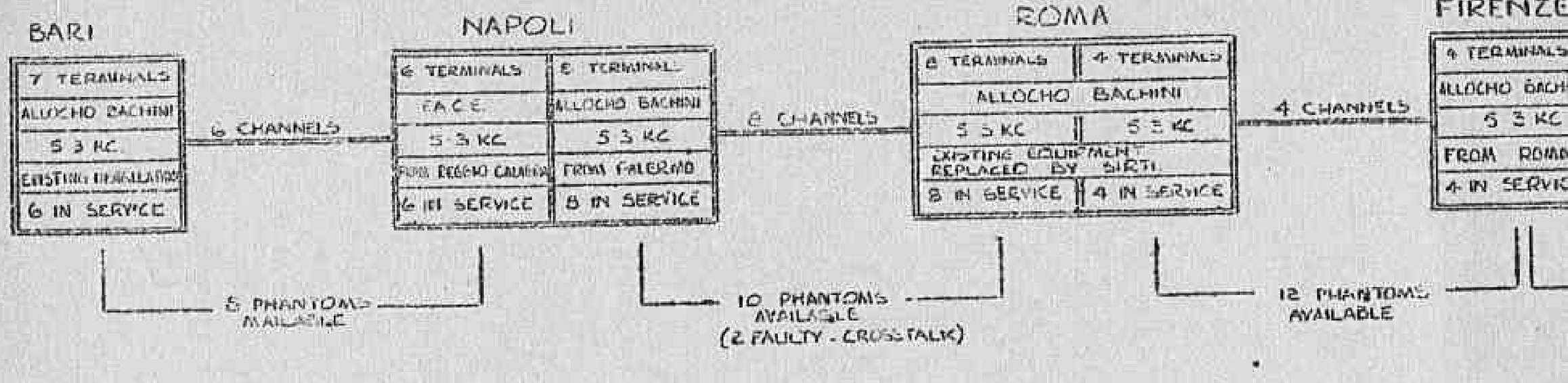
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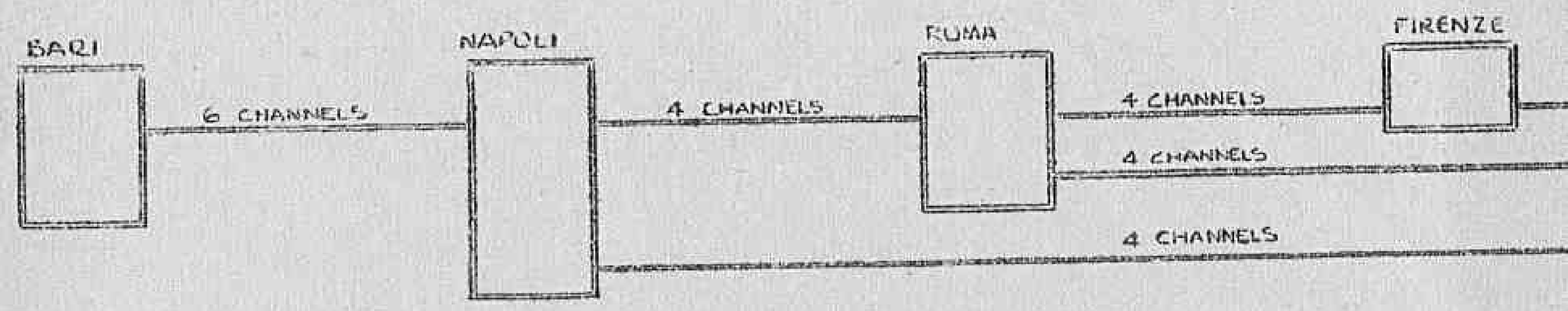
ITALIAN STATE CABLE 1+1 CARRIER EQUIPMENT

EXISTING AS AT 14TH JULY 1945

(1)



(2) PROPOSED

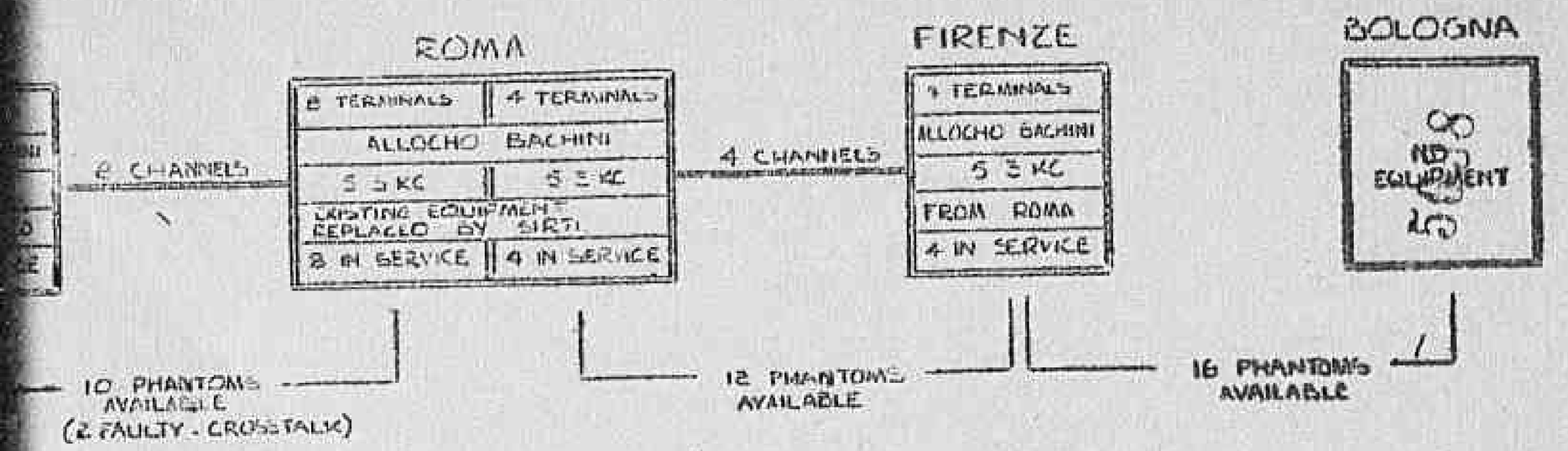


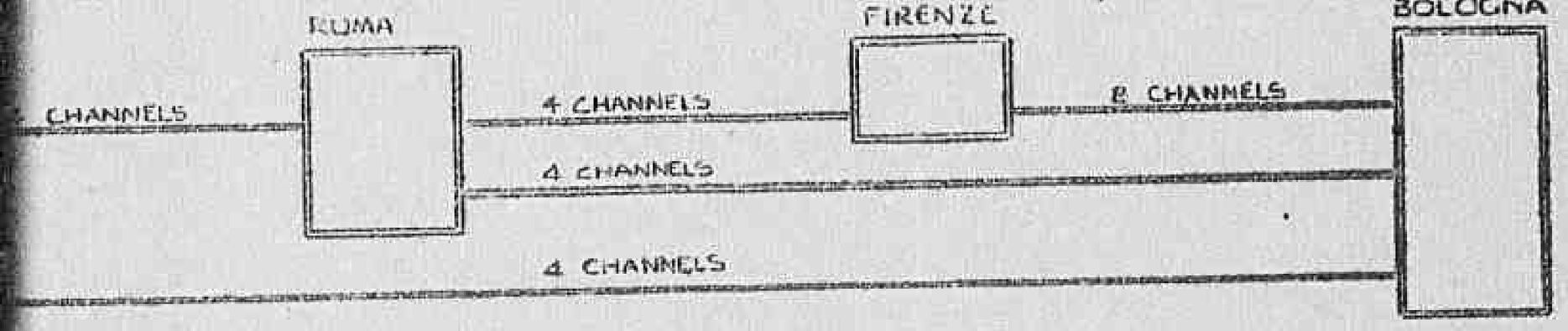
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12 MAY. 45.
HS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

ATE CABLE 1+1 CARRIER EQUIPMENT

XISTING AS AT 14TH JULY 1945





TRANSMISSION OFFICER
M.I.U.G. CABLE COMPANY

1 Underground Cable Coy
Technical Office
MEMORANDUM

TS 48/6

Provision of 1 + 1 Carrier Equipment NAPOLI - ROMA - FIRENZE - BOLOGNA

INTRODUCTION

1. Owing to the shortage of Loading Equipment, replacement cable and the very heavy damage sustained, it has been possible to restore to service 33 quads between NAPOLI and ROMA and 34 quads between ROMA and BOLOGNA.

It is now necessary to consider the practicability of increasing the circuit availability by the use of 1 + 1 Carrier equipment of F.A.C.E. or ALLOCHO BACHINI type.

EXISTING 1 + 1 EQUIPMENT

2. The attached diagram shows the existing 1+1 Carrier Equipment which has been installed in Southern Italy by, and on behalf of Allied Forces.

In considering the extension of the use of 1 + 1 Equipments on 4 wire phantoms loaded H 44/25 or H 44/18, two important considerations must be borne in mind:-

(a) Owing to the damage suffered by the cable, and the large number of replacement lengths which have been jointed in without rebalancing the section it is unlikely that more than 75% of the Phantom Circuits between ROMA and BOLOGNA will give sufficiently good Crosstalk results for the operation of 1 + 1 Carrier Channels. This figure is likely to be about 50% over the FIRENZE - BOLOGNA section initially, owing to the other contributory factor given in (b)

(b) The FIRENZE - BOLOGNA section is being used without the intermediate Repeater Station at LOIANO. A repeater section 68 miles in length is therefore in operation at present between FIRENZE - BOLOGNA, the 4 wire pairs having an attenuation of approximately 32 db.

PROPOSALS FOR A STAGE I INSTALLATION OF 1 + 1 CARRIER EQUIPMENT

3.1 A considerable quantity of equipment of F.A.C.E. and Allocho Bachini type has been found in Austria and is being transported to VERONA. Equipment having a Carrier Frequency of both

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which has been installed in Southern Italy by, and on behalf of Allied Forces.

In considering the extension of the use of 1 + 1 Equipments on 4 wire phantoms loaded H 44/25 or H 44/18, two important considerations must be borne in mind:-

(a) Owing to the damage suffered by the cable, and the large number of replacement lengths which have been jointed in without rebalancing the section it is unlikely that more than 75% of the Phantom Circuits between ROMA and BOLOGNA will give sufficiently good Crosstalk results for the operation of 1 + 1 Carrier Channels. This figure is likely to be about 50% over the FIRENZE - BOLOGNA section initially, owing to the other contributory factor given in (b)

(b) The FIRENZE - BOLOGNA section is being used without the intermediate Repeater Station at IMOLA. A repeater section 68 miles in length is therefore in operation at present between FIRENZE - BOLOGNA, the 4 wire pairs having an attenuation of approximately 32 db.

PROPOSALS FOR A STAGE I INSTALLATION OF 1 + 1 CARRIER EQUIPMENT

3.1 A considerable quantity of equipment of F.A.C.E. and Alloche Bachini type has been found in Austria and is being transported to VERONA. Equipment having a Carrier Frequency of both 6 Kc and 5.3 Kc is available, but the exact quantities of the two types of equipment is not yet known.

3.2 It is also understood that sufficient Filter Sections are available at the F.A.C.E. Factory for the modification of 12 Terminals of the 6 Kc type equipment to be suitable for use with a Carrier Frequency of 5.3 Kc.

3.3 It is proposed that the following additional Terminals be installed :-

At FIRENZE	8	TERMINALS
At BOLOGNA	16	TERMINALS

5627

This equipment can be operated as in the attached diagram (2). This layout utilises all available 4 wire phantom circuits between ROMA and BOLOGNA, whilst involving no additional installation at ROMA and NAPOLI.

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3.4 It is unlikely that crosstalk considerations will permit of the operation of all this equipment at the outset.

The completion of any partial rebalancing of the ROMA-FIRENZE and FIRENZE - BOLOGNA cables which may be practicable should considerably increase the possibility of operating the maximum amount of 1 + 1 Carrier Equipment. Also the installation of a new Repeater Station at LODANO which should be given a high priority after the completion of the more important repair and reinstallation work in Northern Italy, will also contribute to the reduction of the crosstalk between FIRENZE and BOLOGNA.

3.5 It is therefore proposed to continue with the installation of the equipment in due course, and provide carrier channels on phantoms which give sufficiently good crosstalk results. It is not practicable at this stage to state how many channels will be provided

(RSI.OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
No 1 UG Cable Coy.R.Signals

11 JULY 45
RSIO/jcs

Distribution

CSO L of C Italy (Main)	2
Director, Comms Sub-Com HQ AC	2
Lt Col GA Keith, R.Sigs.	1
Mr CW Jacobs	1
CE SIRTI ROMA	1
CE SIRTI MILANO	1
Ing. Del Negro SIRTI	1
Transmission Officer	1
Cable Officer	1
TS 45/25, TS 42/16	

Declassified E.O. 12356 Section 3.3/NND No. 785015

3.5 It is therefore proposed to continue with the installation of the equipment in due course, and provide carrier channels on phantoms which give sufficiently good crosstalk results. It is not practicable at this stage to state how many channels will be provided

11 JULY 45
RSIO/jcs

(RSI.OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
N° 1 UG Cable Coy.R.Signals

Distribution

CSO L of C Italy (Main)	2
Director, Comms Sub-Com HQ AC	2
Lt Col GA Keith, R.Sigs.	1
Mr CW Jacobs	1
CE SIRTI ROMA	1
CE SIRTI MILANO	1
Ing. Del Negro SIRTI	1
Transmission Officer	1
Cable Officer	1

TS 45/25, TS 42/16

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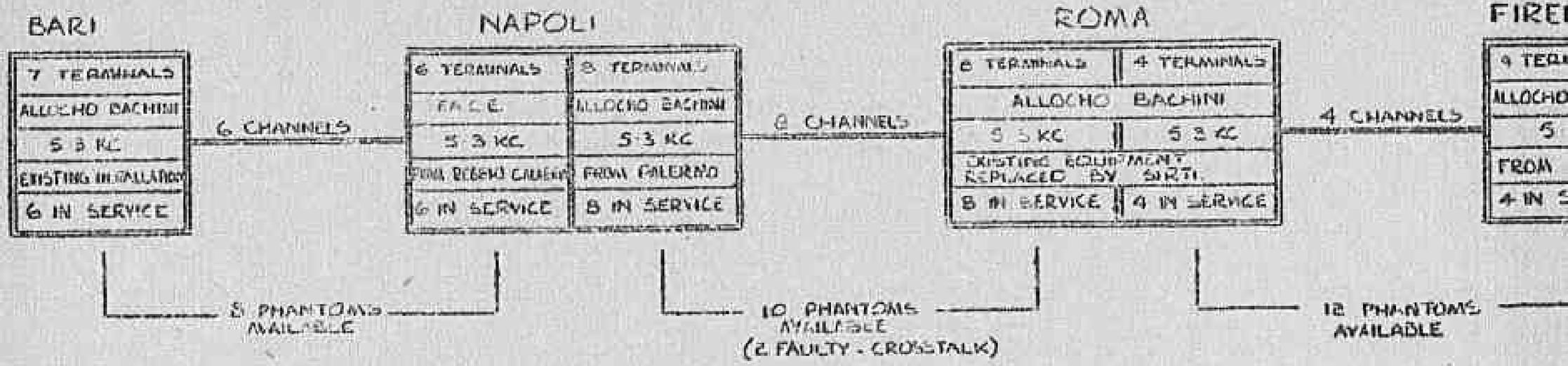
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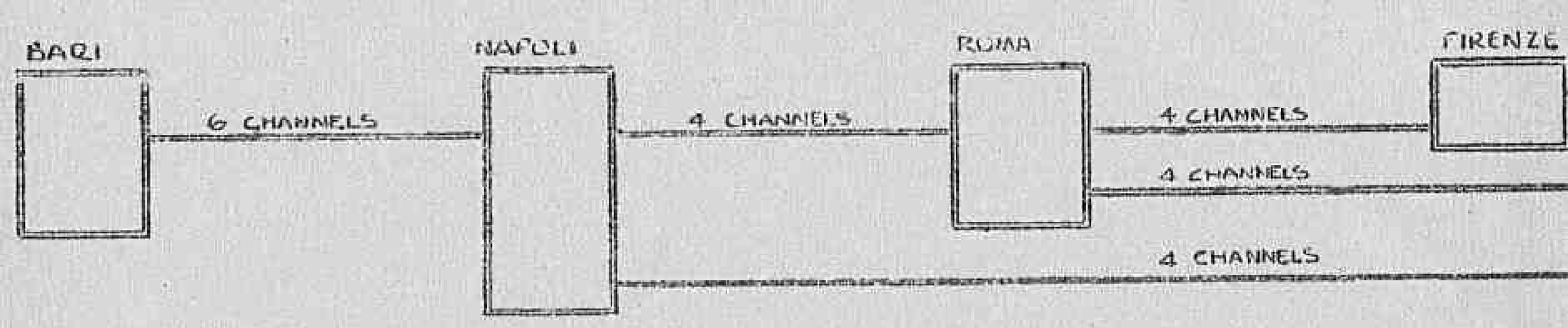
ITALIAN STATE CABLE 1+1 CARRIER EQUIPMENT

EXISTING AS AT 14TH JULY 1945

(1)



(2) PROPOSED

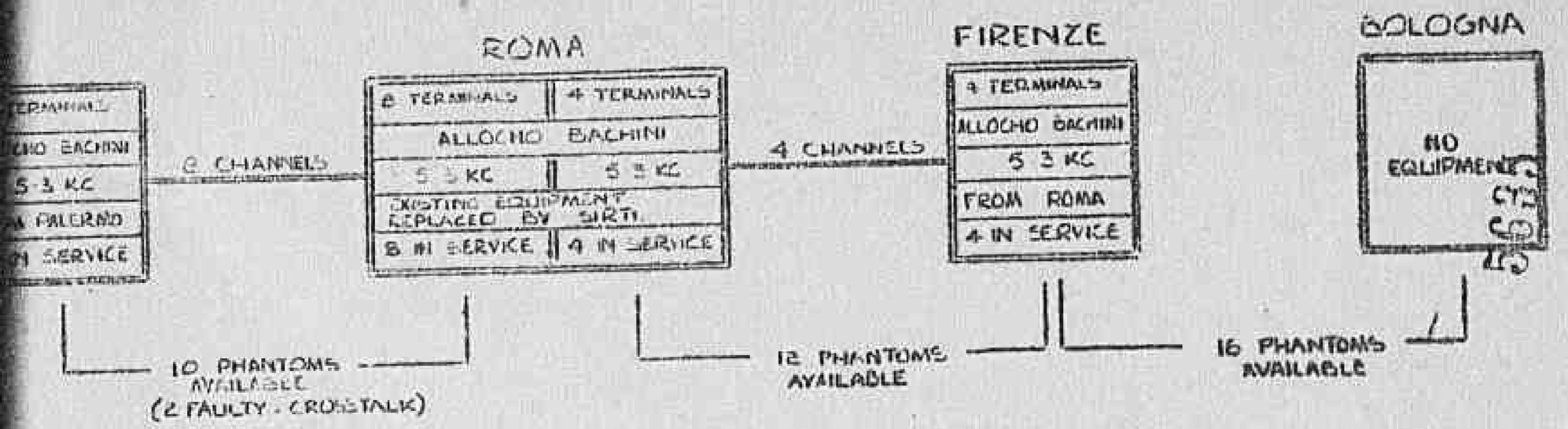


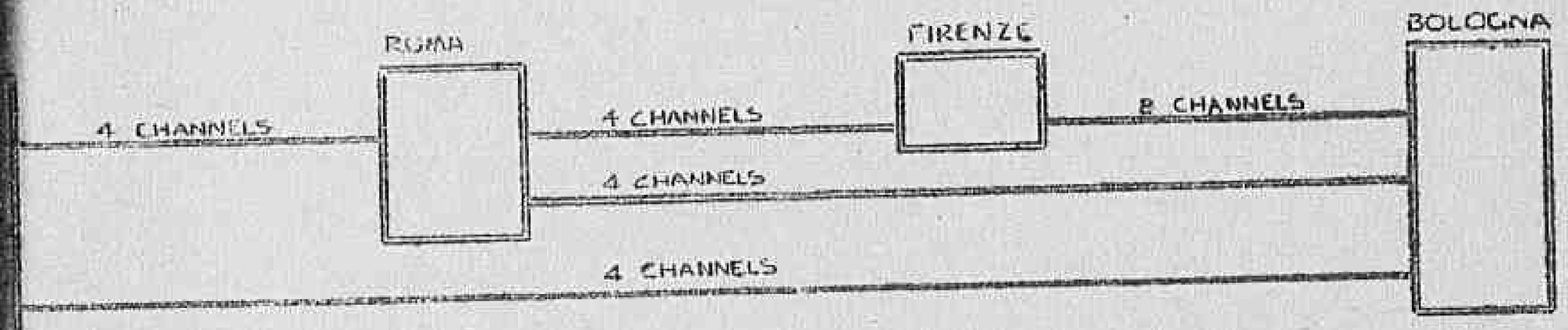
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12 MAY. 45
HS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

STATE CABLE 141 CARRIER EQUIPMENT

EXISTING AS AT 14TH JULY 1945





TRANSMISSION OFFICER
N.Y. UG CABLE COMPANY

No 1 Underground Cable Coy
Tel: Vicksburg 154
Ref: TS 42/20
11 July 45

18

Subject: BOLOGNA - CASTEGGIO Main State Cable
Repair of Spur Cables to
REGGIO EMILIA, PARMA, PIDENZA, PIACENZA

To CSO L of C Italy (Main)

A request has recently been made for consideration to be given to the repair of the above Spur Cables. It is desirable to state the limiting features which exist in providing satisfactory communications to these Towns owing to the present state of repair of the BOLOGNA - CASTEGGIO Cable.

1. The damage to the spur cables is not very excessive and only one Loading Pot is destroyed. The repair of these cables will not therefore present undue difficulty.

2. The circuits were originally operated on a 2 wire basis, with 2 wire Repeaters (with 20 cps Units) at MODENA, SAN SECUNDO or MONTU BECCARIA Repeater Stations, utilising quads in the 1.3 mm H 177/63 Group. No 2 wire Repeaters are available at present at any of these Repeater Stations.

3. The following pairs have been made available in the Stage I Restoration of the Main Cable:-

BOLOGNA-MODENA-SAN SECUNDO 56 quads 0.9mm H 44/25
SAN SECUNDO-MONTU BECCARIA-CASTEGGIO Complete cable to original size, but only the first 40 quads have been terminated in the temporary Stage I Repeater Station at SAN SECUNDO and MONTU BECCARIA.

Thus, no 1.3 mm H 177/63 quads are at present available for use between BOLOGNA and CASTEGGIO.

4. It is therefore recommended that the temporary service to REGGIO EMILIA, PARMA, PIDENZA and PIACENZA be provided on the 0.9mm H 44/25 quads, and that a subsequent redistribution of pairs at the spur joints be carried out in two stages, as follows:-
(a) When the Stage II Repeater Stations are completed at SAN SECUNDO and MONTU BECCARIA, the spur cables to PIACENZA and PIDENZA be re-jointed so as to pick up 1.3mm H 177/63 quads in the Main Cable.
(b) When the repair of the SAN SECUNDO-MODENA cable is completed to the original size, the spurs at PARMA and REGGIO EMILIA can be re-jointed, in a similar fashion to (a) above, to make use of the 1.3mm H 177/63 quads.

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. The damage [illegible] one Loading Pot is destroyed. The repair therefore present undue difficulty.

2. The circuits were originally operated on a 2 wire basis, with 2 wire Repeaters (with 20 cps Units) at MODENA, SAN SECUNDO or MONTU BECCARIA Repeater Stations, utilising quads in the 1.3 mm H 177/63 Group. No 2 wire Repeaters are available at present at any of these Repeater Stations.

3. The following pairs have been made available in the Stage I Restoration of the Main Cable:-

BOLOGNA-MODENA-SAN SECUNDO 56 quads 0.9mm H 44/25.
SAN SECUNDO-MONTU BECCARIA-CASTEGGIO Complete cable to original size, but only the first 40 quads have been terminated in the temporary stage I Repeater Station at SAN SECUNDO and MONTU BECCARIA.

Thus, no 1.3 mm H 177/63 quads are at present available for use between BOLOGNA and CASTEGGIO.

4. It is therefore recommended that the temporary service to REGGIO EMILIA, PARMA, PIDENZA and PIACENZA be provided on the 0.9mm H 44/25 quads, and that a subsequent redistribution of pairs at the spur joints be carried out in two stages, as follows:-

(a) When the Stage II Repeater Stations are completed at SAN SECUNDO and MONTU BECCARIA, the spur cables to PIACENZA and PIDENZA be re-jointed so as to pick up 1.3mm H 177/63 quads in the Main Cable.

(b) When the repair of the SAN SECUNDO-MODENA cable is completed to the original size, the spurs at PARMA and REGGIO EMILIA can be re-jointed, in a similar fashion to (a) above, to make use of the 1.3mm H 177/63 quads.

5. These quads can be used at present on a 2 wire Unrepeatered basis only, as no 2 wire Repeaters are available at any of the Repeater Stations concerned. Alternatively, if 4 wire Repeater and Signalling Units of the Mains driven "EMERGENZA" type can be provided and installed by the TIMO at the Exchange at which the spur cable terminates, several 4 wire circuits could be provided. 2 wire Repeaters will, of course, be installed at MODENA, SAN SECUNDO and MONTU BECCARIA Stage II Repeater Stations in due course.

Director
D/Director
Chief Telecoms
Chief Postal
H Q Coms O.
Asst Chief Postal
[illegible]ssorship
[illegible]f Clerk

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[illegible] REFS.	
FILE 1.64	B/Fwd.

14 AUG 1945
Date

Declassified E.O. 12356 Section 3.3/NND No. 785015

6. The attached diagram shows the proposed Stage I Pair distribution, and also the calculated attenuation of the various Sections.

Arrangements have been made for this work to be put in hand when personnel become available in approximately 2 weeks time. Completion of all the spurs can be expected by August 15th 1945.

7. It is requested that approval of this temporary expedient to provide service to the T.I.M.O, be given, please.

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
No 1 Underground Cable Coy.R.Sigs

RSIO/jcs

Dist. CSO L of C Italy (Main) 2
CSO 2 District 2
Dir.Comms Sub-Com HQ AC 2
Lt Col Cumming AC/AMG Lombardia Region MILAN 2
Major Ayres AC/AMG Emilia Region BOLOGNA 2

Lt Col GA Keith	2	Ing. Del Negro	SIRTI BOLOGNA	1
CE SIRTI MILAN	1	Ing. Grecco	SIRTI BOLOGNA	1
CE SIRTI ROME	1	Cable Officer		4

NCO i/c Bologna Repeater Station. 1

Declassified E.O. 12356 Section 3.3/NND No. 785015

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Declassified E.O. 12356 Section 3.3/NND No. 785015

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T/64/CS

UNDERGROUND CABLES - Part II

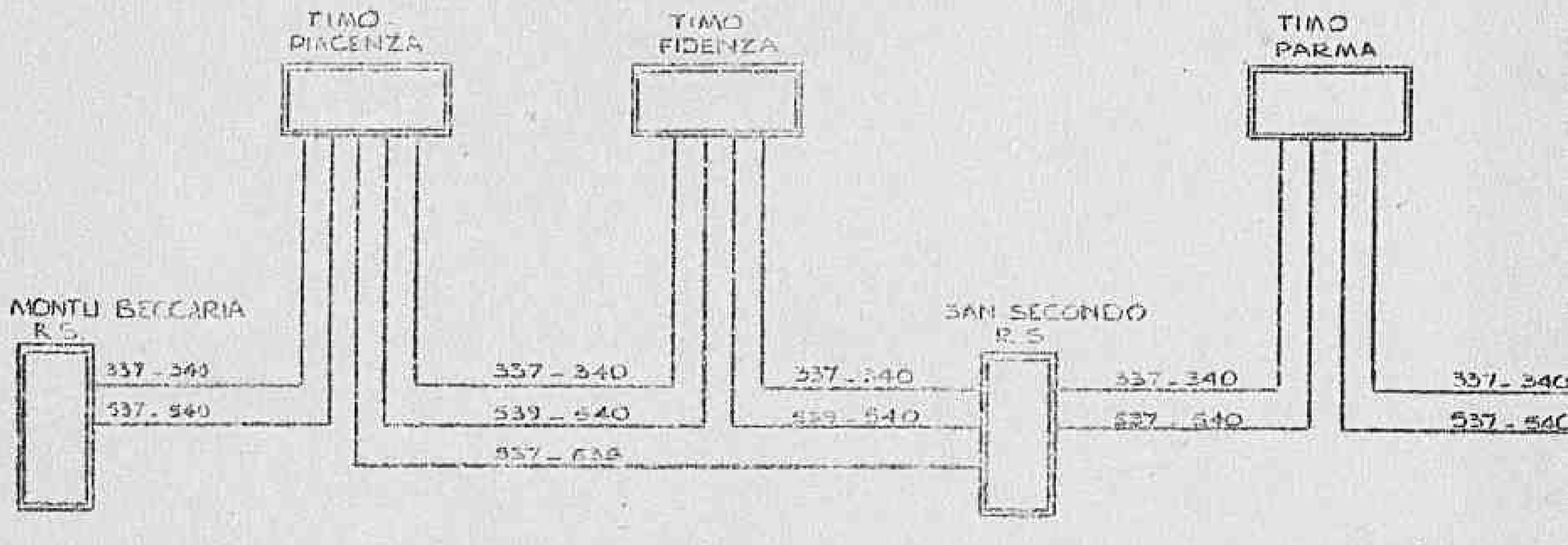
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Declassified E.O. 12356 Section 3.3/NND No. 785015

BOLOGNA - CASTEGGIO MAIN STATE CABLE

PROPOSED REDISTRIBUTION OF PAIRS - MONTU BECCARIA -



NOTES:

1. THIS DIAGRAM SHOULD BE READ IN CONJUNCTION WITH DIAGRAM TSC 70, ISSUED I WHICH SHOWS THE EXISTING ALLOCATION OF PAIRS BOLOGNA - CASTEGGIO.

2. LENGTHS AND SIZE OF THE SPUR CABLES AS FOLLOWS :-

PIACENZA	-	12 QUADS	- 1.5 KM.
FIDENZA	-	6 QUADS	- 13 KM
PARMA	-	14 QUADS	- 11 KM
REGGIO EMILIA	-	8 QUADS	- 10 KM

3. THE CALCULATED VALUES OF THE ATTENUATION BETWEEN THE VARIOUS PLACE 0·9 mm H-44/25 QUADS IN THE MAIN CABLE, ARE AS FOLLOWS :-

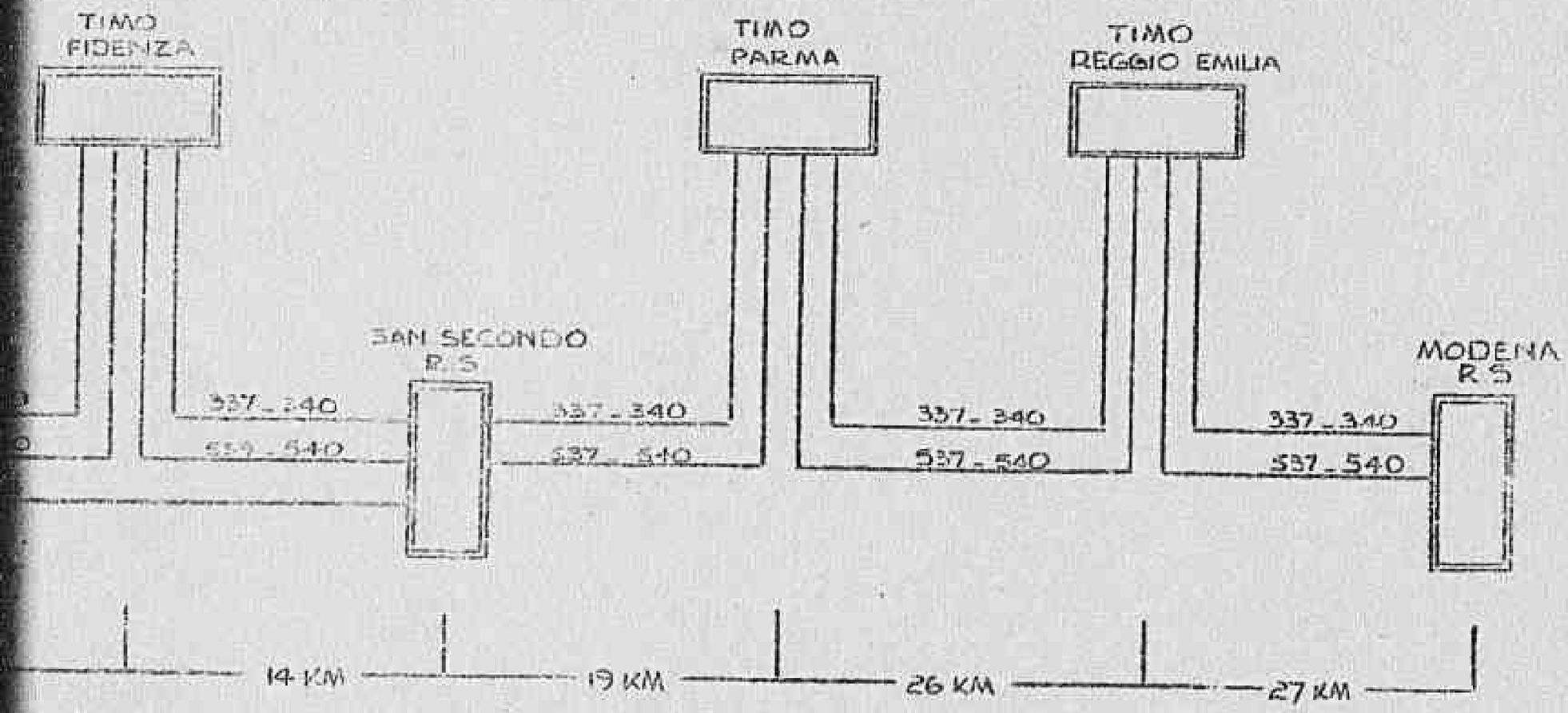
MODENA	-	REGGIO EMILIA	- 10 db
REGIO EMILIA	-	PARMA	- 15 db
PARMA	-	FIDENZA	- 15 db
FIDENZA	-	PIACENZA	- 13 db
PIACENZA	-	MONTU BECCARIA	- 10 db

DRG. NO. TSC 83
11 MAY 45
JC

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OGNA - CASTEGGIO MAIN STATE CABLE

REDISTRIBUTION OF PAIRS -- MONTU BECCARIA - MODENA



D BE READ IN CONJUNCTION WITH DIAGRAM TSC.70 ISSUED 13TH MAY 1945,
EXISTING ALLOCATION OF PAIRS . BOLOGNA - CASTEGGIO.

OF THE SPUR CABLES AS FOLLOWS :-

PIACENZA	12 QUADS	1.5 KM.
FIDENZA	6 QUADS	13 KM
PARMA	14 QUADS	11 KM
REGGIO EMILIA	8 QUADS	10 KM

ALUES OF THE ATTENUATION BETWEEN THE VARIOUS PLACES, USING
UADS IN THE MAIN CABLE, ARE AS FOLLOWS :-

MODENA	REGGIO EMILIA	10 db
REGIO EMILIA	PARMA	15 db
PARMA	FIDENZA	15 db
FIDENZA	PIACENZA	13 db
PIACENZA	MONTU BECCARIA	10 db

TRANSMISSION OFFICER
No 1 UG CABLE COMPANY

N° 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 42/20
11 July 45

Subject: BOLOGNA - CASTEGGIO Main State Cable
Repair of Spur Cables to
REGGIO EMILIA, PARMA, FIDENZA, PIACENZA

To CSO L of C Italy (Main)

A request has recently been made for consideration to be given to the repair of the above Spur Cables. It is desirable to state the limiting features which exist in providing satisfactory communications to these Towns owing to the present state of repair of the BOLOGNA - CASTEGGIO Cable.

1. The damage to the spur cables is not very excessive and only one Loading Pot is destroyed. The repair of these cables will not therefore present undue difficulty.
2. The circuits were originally operated on a 2 wire basis, with 2 wire Repeaters (with 20 cps Units) at MODENA, SAN SECUNDO or MONTU BECCARIA Repeater Stations, utilising quads in the 1.3 mm H 177/63 Group. No 2 wire Repeaters are available at present at any of these Repeater Stations.
3. The following pairs have been made available in the Stage I Restoration of the Main Cable:-

BOLOGNA-MODENA-SAN SECUNDO	56 quads	0.9mm	H 44/25
SAN SECUNDO-MONTU BECCARIA-CASTEGGIO	Complete cable to original size, but only the first 40 quads have been terminated in the temporary Stage I Repeater Station at SAN SECUNDO and MONTU BECCARIA.		

Thus, no 1.3 mm H 177/63 quads are at present available for use between BOLOGNA and CASTEGGIO.

4. It is therefore recommended that the temporary service to REGGIO EMILIA, PARMA, FIDENZA and PIACENZA be provided on the 0.9mm H 44/25 quads, and that a subsequent redistribution of pairs at the spur joints be carried out in two stages, as follows:-
(a) When the Stage II Repeater Stations are completed at SAN SECUNDO and MONTU BECCARIA, the spur cables to PIACENZA and FIDENZA be re-jointed so as to pick up 1.3mm H 177/63 quads in the Main Cable.
(b) When the repair of the SAN SECUNDO-MODENA cable is completed to the original size, the spurs at PARMA and REGGIO EMILIA can be re-jointed, in a similar fashion to (a) above, to make use of the 1.3mm

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. The damage to the spur cables is not very [illegible] one Loading Pot is destroyed. The repair of these cables will not therefore present undue difficulty.

2. The circuits were originally operated on a 2 wire basis, with 2 wire Repeaters (with 2C ops Units) at MODENA, SAN SECUNDO or MONTU BECCARIA Repeater Stations, utilising quads in the 1.3 mm H 177/63 Group. No 2 wire Repeaters are available at present at any of these Repeater Stations.

3. The following pairs have been made available in the Stage I Restoration of the Main Cable:-

BOLOGNA-MODENA-SAN SECUNDO	56 quads	0.9mm H 44/25
SAN SECUNDO-MONTU BECCARIA-CASTEGGIO	Complete cable to original size, but only the first 40 quads have been terminated in the temporary Stage I Repeater Station at SAN SECUNDO and MONTU BECCARIA.	

Thus, no 1.3 mm H 177/63 quads are at present available for use between BOLOGNA and CASTEGGIO.

4. It is therefore recommended that the temporary service to REGGIO EMILIA, PARMA, PIDENZA and PIACENZA be provided on the 0.9mm H 44/25 quads, and that a subsequent redistribution of pairs at the spur joints be carried out in two stages, as follows:-
(a) When the Stage II Repeater Stations are completed at SAN SECUNDO and MONTU BECCARIA, the spur cables to PIACENZA and PIDENZA be re-jointed so as to pick up 1.3mm H 177/63 quads in the Main Cable.
(b) When the repair of the SAN SECUNDO-MODENA cable is completed to the original size, the spurs at PARMA and REGGIO EMILIA can be re-jointed, in a similar fashion to (a) above, to make use of the 1.3mm H 177/63 quads.

5. These quads can be used at present on a 2 wire Unrepeatered basis only, as no 2 wire Repeaters are available on any of the Repeater Stations concerned. Alternatively, if 4 wire Repeater and Signalling Units of the Mains driven "EMERGENZA" type can be provided and installed by the TIMO at the Exchange at which the spur cable terminates, several 4 wire circuits could be provided. 2 wire Repeaters will, of course, be installed at MODENA, SAN SECUNDO and MONTU BECCARIA Stage II Repeater Stations in due course.

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6. The attached diagram shows the proposed Stage I Pair distribution, and also the calculated attenuation of the various Sections.

Arrangements have been made for this work to be put in hand when personnel become available in approximately 2 weeks time. Completion of all the spurs can be expected by August 15th 1945.

7. It is requested that approval of this temporary expedient to provide service to the T.I.M.O, be given, please.

(RSI OGDEN) Major, R.Signals
for Lt Col GA Keith, R.Signals
No 1 Underground Cable Coy.R.Sigs

RSIO/jcs

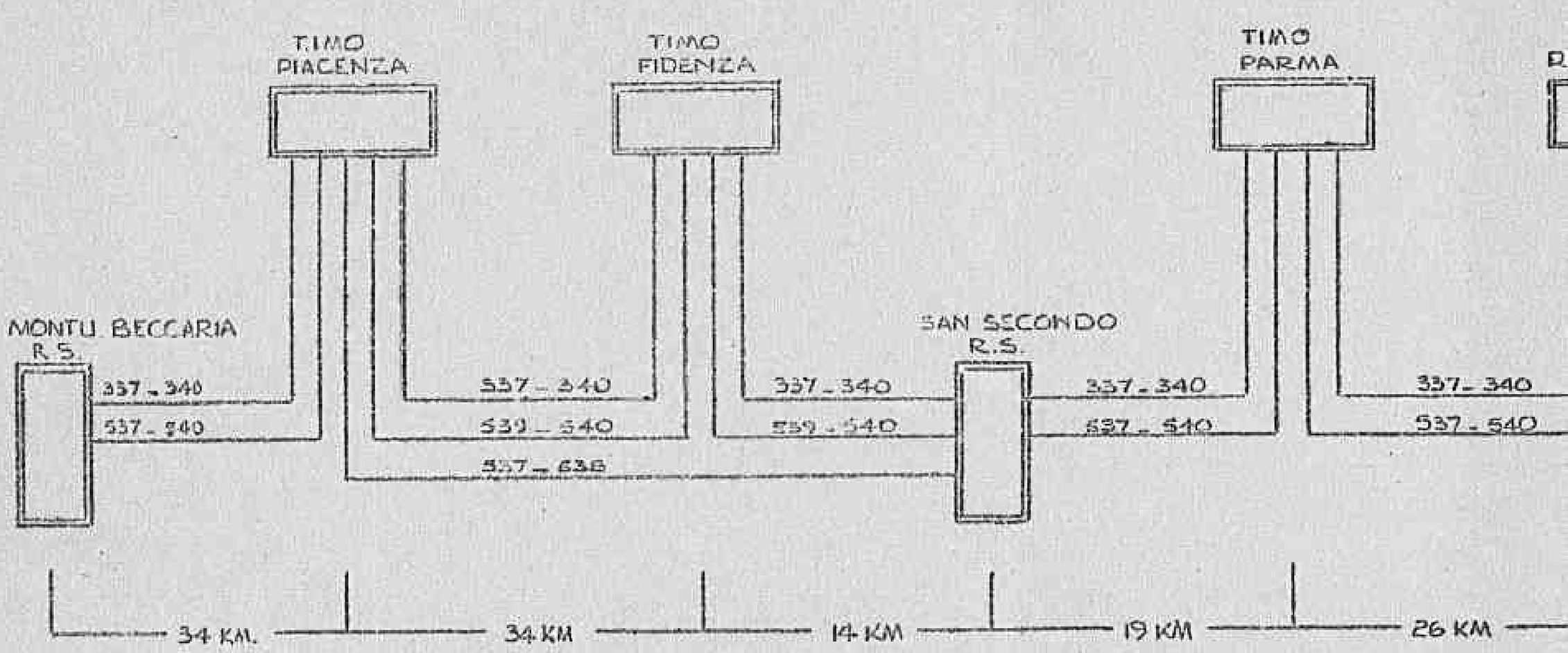
Dist. CSO L of C Italy (Main) 2
CSO 2 District 2
Dir.Comms Sub-Com HQ AC 2
Lt Col Cumming AC/AMG Lombardie Region MILAN 2
Major Ayres AC/AMG Emilie Region BOLOGNA 2
Lt Col GA Keith 2
CE SIRTI MILAN 1
CE SIRTI ROME 1
NCO i/c Bologna Repeater Station. 1
Ing. Del Negro SIRTI BOLOGNA 1
Ing. Grecco SIRTI BOLOGNA 1
Cable Officer 4

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

BOLOGNA - CASTEGGIO MAIN STATE CABLE

PROPOSED REDISTRIBUTION OF PAIRS - MONTU BECCARIA - M



NOTES:

1. THIS DIAGRAM SHOULD BE READ IN CONJUNCTION WITH DIAGRAM TSC.70 ISSUED 13TH WHICH SHOWS THE EXISTING ALLOCATION OF PAIRS BOLOGNA - CASTEGGIO.

2. LENGTHS AND SIZE OF THE SPUR CABLES AS FOLLOWS :-

PIACENZA	-	12 QUADS -	1·5 KM.
FIDENZA	-	6 QUADS -	13 KM
PARMA	-	14 QUADS -	11 KM
REGGIO EMILIA	-	8 QUADS -	10 KM

3. THE CALCULATED VALUES OF THE ATTENUATION BETWEEN THE VARIOUS PLACES, 0·9 mm. 1144/25 QUADS IN THE MAIN CABLE, ARE AS FOLLOWS :-

MODENA	—	REGGIO EMILIA -	10 db
REGIO EMILIA -	PARMA	——	15 db
PARMA ——	FIDENZA	——	15 db
FIDENZA ——	PIACENZA	——	13 db
PIACENZA ——	MONTU. BECCARIA -		10 db

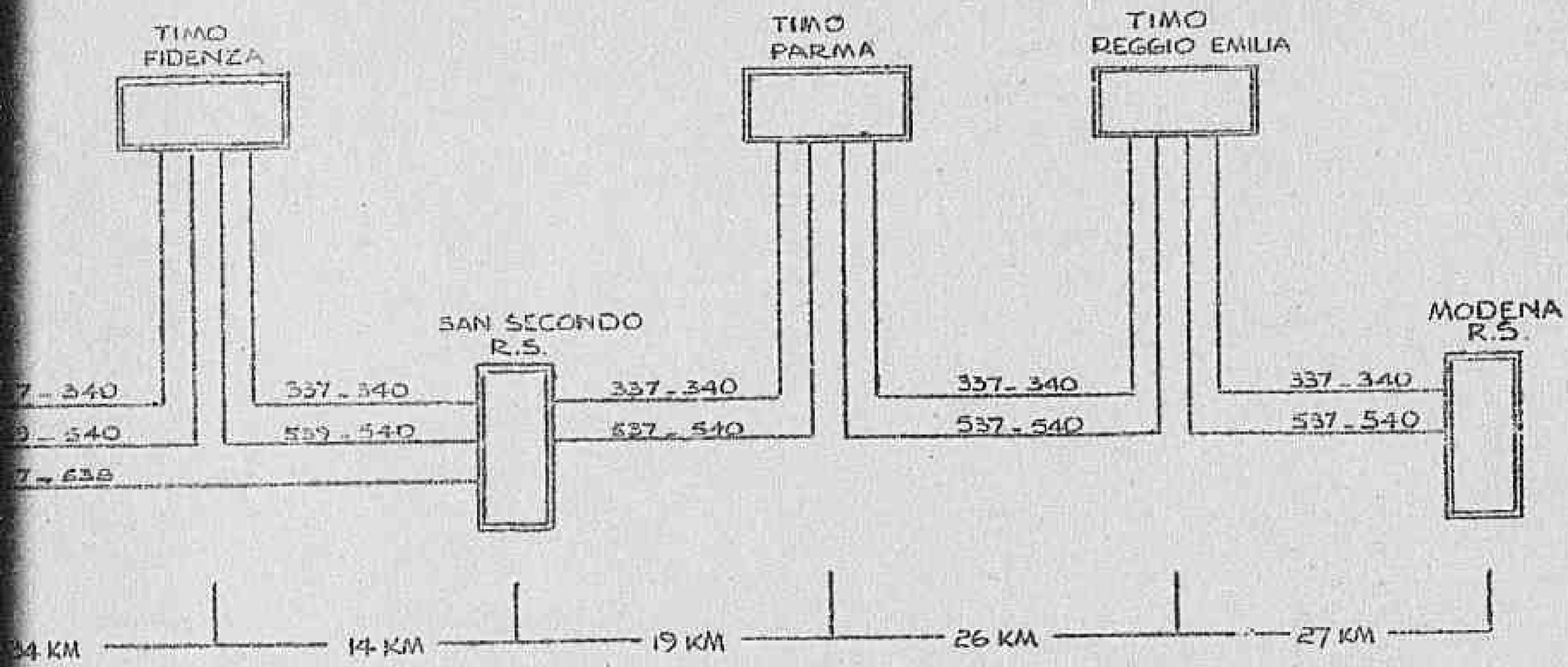
TSC 69

DRG. Nº TSC. 69
11 MAY. 46.
TS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

BOLOGNA - CASTEGGIO MAIN STATE CABLE

OSED REDISTRIBUTION OF PAIRS - MONTU BECCARIA - MODENA



SHOULD BE READ IN CONJUNCTION WITH DIAGRAM TSC 70. ISSUED 15TH MAY 1945, THE EXISTING ALLOCATION OF PAIRS. BOLOGNA - CASTEGGIO.

SIZE OF THE SPUR CABLES AS FOLLOWS :-

PIACENZA	-	12 QUADS	- 1·5 KM.
FIDENZA	-	6 QUADS	- 13 KM.
PARMA	-	14 QUADS	- 11 KM
REGGIO EMILIA	-	8 QUADS	- 10 KM

TED VALUES OF THE ATTENUATION BETWEEN THE VARIOUS PLACES, USING /25 QUADS IN THE MAIN CABLE, ARE AS FOLLOWS :-

MODENA	-	REGGIO EMILIA	- 10 db
REGIO EMILIA	-	PARMA	—— 15 db
PARMA	——	FIDENZA	—— 15 db
FIDENZA	——	PIACENZA	—— 13 db
PIACENZA	——	MONTU BECCARIA	- 10 db

TRANSMISSION OFFICER
No 1 UG CABLE COMPANY.

17

N° 1 Underground Cable Coy.
Tel: Vicksburg 134
Ref: TS 51/1
11 July 45

Subject: Cable Maintenance Engineering Instruction Ammendment

To: DISTRIBUTION

Attached Ammendment N° 1 to Appendix "A" of Cable Maintenance Engineering Instruction N° 9 giving redistribution of S.I.R.T.I. Technicos and Engineers, also particulars of new Maintenance Groups formed at Ostiglia and Rovereto for the maintenance of BOLOGNA - VERONA - ALA - TRENTO - BRENNERO Cable.

(JL McILVRIDE) Lt. R.Sigs
for Cable Officer
for Lt Col GA Keith R.Signals

JLMi/jcs

DISTRIBUTION

Information		Action	
CSO L of C Italy (Main)	6	Cable Officer	2
Director, Communications Sub-Commission, HQ, AC	1	Transmission Officer	1
CSO Eighth Army	1	CE SIRTI Milan (for translation and distribution to all SIRTI Maintenance Groups)	2
Sig Offr Fifth Army	1	CE SIRTI Rome (for translation and distribution to all SIRTI Maintenance Groups)	2
Sig Offr P.B.S.	2	Aziende di Stato, Rome	2
CSO N° 1 District	1	Director, TETI, Rome (for translation & issue to Maintenance Group, LUCCA)	1
CSO N° 2 District	1	Director, SIMC, Parma (for translation & issue to Maintenance Group, Rimini)	1
CSO N° 3 District	1	NCO i/c Maint Group LUCCA	1
OC Fault Control BARI	1		
" " " NAPLES	1		
" " " ROME	1		
" " " FLORENCE	1		
" " " BOLOGNA	1		
" " " ANCONA	1		
Lt Col GA Keith R.Signals	1		

Declassified E.O. 12356 Section 3.3/NND No. 785015

(JL McILVRIDE) Lt. R.Sigs
for Cable Officer
for Lt Col GA Keith R.Signals

JLM/jcs

DISTRIBUTION

Information		Action	
CSO L of C Italy (Main)	6	Cable Officer	2
Director, Communications Sub-Commission, HQ, AC	1	Transmission Officer	1
CSO Eighth Army	1	CE SIRTI Milan (for translation and distribution to all SIRTI Maintenance Groups)	2
Sig Offr Fifth Army	1	CE SIRTI Rome (for translation and distribution to all SIRTI Maintenance Groups)	2
Sig Offr P.B.S.	2	Aziende di Stato, Rome	2
CSO N° 1 District	1	Director, ETTI, Rome (for translation & issue to Maintenance Group, LUCCA)	1
CSO N° 2 District	1	Director, FIMO, Parma (for translation & issue to Maintenance Group, Rimini)	1
CSO N° 3 District	1	NCO i/c Maint Group LUCCA	1
OC Fault Control BARI	1	" " " RIMINI	1
" " " NAPLES	1	Ing. FIRINELLO, Aziende di Stato	1
" " " ROME	1		
" " " FLORENCE	1		
" " " BOLOGNA	1		
" " " ANCONA	1		
Lt Col GA Keith R.Signals	1		
OC N° 1 UG Cable Coy.	1		
OC 62 Group	1		
" 100 "	1		
" 164 "	1		
" 157 F.L. Section	1		
OC Maintenance Control PADUA	1		
" " " MILAN	1		
" " " FORLI	1		
" " " UDINE	1		
War Diary	2		
File TS 51/1, TS 57/1			

Director
D/Director
Chief Telecoms
Chief Postal
H Q. Coms O.
Asst. Chief Posts
Censorship
Chief Clerk.

5630

CROSS REFS. 4
FILE T.64 B/Fwd.
Date 9 AUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

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No 1 Underground Cable Coy.R.Sigs. TS 51/1

Cable Maintenance Engineering Instruction No 9.

Ammendment No 1 to Appendix "A"

Locations of Groups, Division of Responsibility, Method of Contact, Parent Fault Controls.

1.	Para 7	Delete Read	Ing. Greco Sig Giorgetti
	Para 8	Delete Read	Ing. Paoletti Sig. Codriozza
	Para 9	Delete Read	Sig. Ghezzi Sig. Laboranti

Para 11 Now reads:-

Cable Sections	Location of Mtce. Group	Technico in Charge.	Method of contact	Parent Fault Cntl
BOLOGNA-VERONA-ALA	OSTIGLIA	Sig.Boilini	OSTIGLIA Repeater Station.	BOLOGNA

Para 12 Now reads:-

ALA-TRENTO-BRENNERO	ROVERETO	Sig. Ghezzi	TRENTO or ALA Repeater Stations	BOLOGNA

2. Ing. Paoletti (MILAN) is now Engineer in charge of the following

1. Para 7 — Delete — Ing. Greco
Read — Sig Giorgetti

Para 8 — Delete — Ing. Paoletti
Read — Sig. Cosriezza

Para 9 — Delete — Sig. Ghezzi
Read — Sig. Laboranti

Para 11 — Now reads:-

Cable Sections	Location of Mtce. Group	Technico in Charge.	Method of contact	Parent Fault Cntl
BOLOGNA-VERONA-ALA	OSTIGLIA	Sig.Boilini	OSTIGLIA Repeater Station.	BOLOGNA

Para 12 — Now reads:-

ALA-TRENTO-BRENNERO	ROVERETO	Sig. Ghezzi	TRENTO or ALA Repeater Stations	BOLOGNA

2. Ing. Paoletti (MILAN) is now Engineer in charge of the following four Maintenance Groups; MILAN, CASTEGGIO, ALESSANDRIA, ROVERETO, and Ing. Greco (BOLOGNA) is Engineer in charge of Maintenance Groups; OSTIGLIA, BOLOGNA, NOVENTA, UDINE.

5629

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Director
D/Director
Chief. Telecome
Chief. Postal
H.Q. Comm O.
Asst. Chief Postal
Censorship
Chief Clerk.

No 1 Underground Cable Coy

Cable Engineering Instruction No 50

ITALIAN STATE CABLE

TORINO - MODANE SECTION

AS 116

CROSS REFS.

FILE T64

Encls.

Date 13 LUG 1945

INFORMATION

1. Original Cable size and loading were as follows:

1.1 Cable — 47 Quads (D.M.) 1.1 m/m
1 Pair (Screened) 1.4 m/m

1.2 Loading

11 Quads 1.1 m/m H 177-63	prs	1 - 22
18 Quads 1.1 m/m H 44 - 18	prs	301 - 318, 501 - 518
1 Pair 1.4 m/m H 13		Radio (Screened)
18 Quads 1.1 m/m N.L.	prs	319 - 336
		519 - 536

There are 36 loading points:

52 Loading Points each containing
1 - Standard type .016.c. Pot

4 Loading Points each containing
1 - L.T.C. type B-23 UN. Pot

2. Semi permanent repairs have already been carried out over the section TORINO - EXILLES. Cable breaks over this section have been repaired with 28 Quad Cable and the following quads put through:-

10 quads 1.1 m/m	loaded H 177-63 Pairs	1 - 20
18 quads 1.1 m/m	loaded H 44 -25 Pairs	301 - 318
		501 - 518

3. The EXILLES - BARDONECCHIA section has sustained heavy damage and it will be necessary to replace approximately 1000 Meters of cable.

4. The BARDONECCHIA - MODANE section, (that is the section including the FREJUS Tunnel) has not been surveyed and until such time as the tunnel has been repaired it is not practicable to estimate the extent of the damage sustained by the cable.

INTENTION

Declassified E.O. 12356 Section 3.3/NND No. 785015

18 Quads 1.1 m/m H 44 - 18 prs		301 - 318, 501 - 518
1 Pair 1.4 m/m H 13		Radio (Screened)
18 Quads 1.1 m/m N.L.	prs	319 - 336
		519 - 536

There are 56 loading points:

52 Loading Points each containing
1 - Standard type .016.c. Pot

4 Loading Points each containing
1 - L.T.T. type B-23 UM. Pot

2. Semi permanent repairs have already been carried out over the section TORINO - EXILLES. Cable breaks over this section have been repaired with 28 Quad Cable and the following quads put through:-

10 quads 1.1 m/m	loaded H 177-63 Pairs	1 - 20
18 quads 1.1 m/m	loaded H 44 -25 Pairs	301 - 318
		501 - 518

3. The EXILLES - BARDONECCHIA section has sustained heavy damage and it will be necessary to replace approximately 1000 Meters of cable.

4. The BARDONECCHIA - MODANE section, (that is the section including the FREJUS Tunnel) has not been surveyed and until such time as the tunnel has been repaired it is not practicable to estimate the extent of the damage sustained by the cable.

INTENTION

5. To repair the cable to provide 28 fully loaded quads over the complete section TORINO - MODANE.

The above work will be completed by the carrying out of the outstanding work in two phases.

Phase I EXILLES - BARDONECCHIA
Phase II BARDONECCHIA - MODANE.

METHOD

6. CABLE

Breaks in the cable will be repaired with 28 quad cable, which will be fully loaded as follows:- 5628

10 quads 1.1 m/m	H 177 - 63	Pairs 1 - 20
18 quads 1.1 m/m	H 44 - 18	Pairs 301 - 318
		501 - 518

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7. LOADING

Any damaged loading equipment will be removed to the F.A.C.E. for repair and will be temp—orarily replaced with:-

F.A.C.E. Type 9016B Pots (26 - 44/18 2 - 177/63)
S & H Type Pots (12 - 22/9 8 - 177/63)

which will be jointed in to provide the required loading.

8. CABLE TERMINATIONS

It is probable that some time will elapse before access can be obtained to the FREJUS Tunnel and for cables to the cable through the Tunnel can be completed. Therefore a temporary termination will be made at a suitable point close to the entrance ox the tunnel. The complete 28 quads will be terminated on a S.T. & C. or S.I.R.T.I. type cable terminal box which will be mounted in either an existing building or a specially built hut.

9. SPUR CABLES

The spur cables (5 quad 1.1 m/m) at both OULX and BARDONECCHIA will be repaired and jointed to the main cable in accordance with the original line diagram.

10. CABLE BALANCING

Rebalancing will not be carried out unless more than 75% of a loading section has to be replaced in which case 3 Balancing joints will be made.

11. SPECIAL PRECAUTIONS

A certain number of pairs are being used on a temporary basis over the SUSA - BARDONECCHIA section. Steps will be taken to ensure that service on these pairs is not interrupted.

12. DETAIL PLANS

Detail plans will be prepared by S.I.R.T.I.

13. STORES

Cable, jointing and suspension stores will be obtained from stocks held at the S.I.R.T.I. Store, Milano.

Declassified E.O. 12356 Section 3.3/NND No. 785015

obtained to the FREJUS Tunnel and [illegible] to the cable through the Tunnel can be completed. Therefore a temporary termination will be made at a suitable point close to the entrance of the tunnel. The complete 28 quads will be terminated on a S.T. & C. or S.I.R.T.I. type cable terminal box which will be mounted in either an existing building or a specially built hut.

9. SPUR CABLES

The spur cables (5 quad 1.1 m/m) at both OULX and BARDONECCHIA will be repaired and jointed to the main cable in accordance with the original line diagram.

10. CABLE BALANCING

Rebalancing will not be carried out unless more than 75% of a loading section has to be replaced in which case 3 Balancing joints will be made.

11. SPECIAL PRECAUTIONS

A certain number of spiral and basing used on a temporary basis over the SUSA - BARDONECCHIA section, steps will be taken to ensure that service on these pairs is not interrupted.

12. DETAIL PLANS

Detail plans will be prepared by S.I.R.T.I.

13. STORES

Cable, jointing and suspension stores will be obtained from stocks held at the S.I.R.T.I. Store, Milano.

Any loading equipment required will be obtained from stocks held by N° 1 U.G. Cable Coy..

Additional stores required will be obtained from N°1 U.G. Cable Coy. through the CABLE OFFICER.

14. MECHANICAL AIDS

If necessary arrangements can be made for the temporary loan of mechanical aids (wreckers, compressors, pumps, etc.) and heavy transport. Application for mechanical aids will be made to the Cable Officer, N° 1 U.G. Cable Coy., R.Signals.

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RESPONSIBILITY

15. The S.I.R.T.I. (Milano) will be responsible for the Technical Direction and carrying out of the work involved to the satisfaction of Lieut. Colonel G.A. Keith, Royal Signals.

16. The Cable Officer No 1 U.G. Cable Coy. will act in a consultative capacity.

17. The Technical Stores Officer No 1 U.G. Cable Coy will be responsible for the provision of stores and loading equipment as required and authorized by the Cable Officer.

(RSI OGDEN) Major, R.Signals
For Lt Col G.A. Keith, R.Signals

BSB/jcs
9 July 45

Distribution

CSO L of C Italy (Main)	2
CSO II District	1
Dir. Commc. SubComm HQ,AC.	1
Chief Eng. SIRTI Milano	2
Chief Eng. SIRTI Roma	1
OC 1 UG Cable Coy.	1
Transmission Officer	1
Cable Officer	2
Stores Officer	1
War Diary	2
File TS 51	1

Declassified E.O. 12356 Section 3.3/NND No. 785015

No 1 Underground Cable Coy TS 45/37

MEMORANDUM

Repeater Station Installations at OSTIGLIA & CAMPOSANTO

115

1. When the installation now being carried out by the German UG Cable Battalion under the direction of this Company is completed, the following equipment will be available at the two above stations.

(a) OSTIGLIA

10 Bays 4 wire Repeaters Siemens - Olap "EMERGENZA" Type (30 Repeaters
5 Bays 2 wire Repeaters Siemens - Olap "EMERGENZA" Type) 18 Repeaters
1 Bay 2 wire Repeaters F.A.C.E. "EMERGENZA" Type)
1 Rectifier 80 Amp 24v. "SELOX" Type S.T.C.
1 Power Supply Bay 24v. D.C. and 220v. A.C.
1 120v. D.C. to 220v. A.C. Motor/Generator Set.
2 German Army type 220v. A.C. 3 Kw Petrol driven Reserve Power Set

Note (a) No reserve batteries have been installed.
(b) All 2 wire Repeaters have 20 cps Signalling Units.

(b) CAMPOSANTO

10 Bays 4 wire Repeaters Siemens - Olap "EMERGENZA" Type (30 Repeaters
2 Bays 2 wire Repeaters Siemens "UNIVERSAL" Type (20 Repeaters
5 Bays 2 wire Repeaters German Army "UNIVERSAL" Type (15 Repeaters
(for temporary service until the Siemens Type Repeaters are ready for service)
2 Rectifier 80 Amp 24v "SELOX" Type S.T.C.
2 Power Supply Bays 24v. D.C. and 220v.A.C.
2 120v D.C. to 220v A.C. Motor/ Generator Sets.
1 220v A.C. 5 KVA Petrol driven Reserve Power Set
1 20pps Machine.
2 Batteries 120v 125 Amp/hour

2. Equipment will therefore be available for the following through circuits BOLOGNA - VERONA

27 4 wire Circuits (18 quads)
18 2 wire Circuits (12 quads)

Director
D/Director
Chief Telecoms
Chief Power
H Q Corps O.

(R.J. GREEN) Major R.Signals

Declassified E.O. 12356 Section 3.3/NND No. 785015

RSIO/jcs

for Lt Col GA Keith, R.Signals

1 Power Supply Bay 24v. D.C. and 220v. A.C.
1 120v. D.C. to 220v. A.C. Motor/Generator Set.
2 German Army type 220v. A.C. 3 Kw Petrol driven Reserve Power Set

Note (a) No reserve batteries have been installed.
(b) All 2 wire Repeaters have 20 cps Signalling Units.

(b) CAMPOSANTO

10 Bays 4 wire Repeaters Siemens - Olop "EMERGENZA" Type (30 Repeaters
2 Bays 2 wire Repeaters Siemens "UNIVERSAL" Type (20 Repeaters,
5 Bays 2 wire Repeaters German Army "UNIVERSAL" Type (15 Repeaters,
(for temporary service until the Siemens Type Repeaters are ready for service)
2 Rectifier 80 Amp 24v "SELOX" Type S.T.C.
2 Power Supply Bays 24v. D.C. and 220v.A.C.
2 120v D.C. to 220v A.C. Motor/ Generator Sets.
1 220v A.C. 5 KVA Petrol driven Reserve Power Set
1 20pps Machine.
2 Batteries 120v 125 Amp/hour

2. Equipment will therefore be available for the following through circuits BOLOGNA - VERONA

27 4 wire Circuits (18 quads)
18 2 wire Circuits (12 quads)

Director	
D/Director	
Chief Telecoms	
Chief Posts	
H Q Comm O	
Asst Chief Posts	
Censorship	
Chief Clerk	

6 JULY 45
RSIO/jcs

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals
No 1 UG Cable Coy R.Signals

Circulation

CSO L of C Italy (Main) 2
Director, Communications Sub-Commission, HQ,AC.
Lt Col GA Keith 2
Transmission Officer 2
C.E. SIRTI, MILANO
C.E. SIRTI, ROMA
Ing. Del Negro (SIRTI)
Azienda di Stato, ROMA
Ing. FARIELLO C/o Rome Fault Control
N.C.O. i/c BOLOGNA Repeater Station
" " VERONA " "
OC 157 T.E. Section
OS 15/37 MS 15/25

CROSS REFS	
File 4,64	b/wa

Date 9 LUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject: Italian State Underground Cable. Northern Italy

C	
Fr.	S/Fwd.
T·64	

No 1 Underground Cable Det

Tel: Viaduct 1

H.Q. Comm. Z.	25
Asst. Chief Postal	
Censorship	
Chief Clerk	

To:

Distribution

Date 2 July

1. Herewith copies of Cable Pair Layout diagrams for the following cable, showing the pairs which are now available after the repair by the German Underground Cable Battalion.

VERONA - BRENNER - INNSBRUCK

(RSI OCDEM) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals.

RSIO:rlE

Distribution:

CCO 1 of C Italy (Main)	2
Signal Officer, 5 Army	1
CSC No 1 District	2
" " 2 "	2
Director, Comms Sub Comm, HQ A.C.	2
OC Fault Control BOLOGNA	1
OC Maintenance Control VERONA	1
BOLOGNA Repeater Station	2)
VERONA " "	2)
Telecommunications Officer, AC/AMG BOLOGNA	1
Lt Col GA Keith, R.Signals	1
Files: TS 42/21, TS 49, TS 42/17	

Mr Jacobs, SIRTI Milan	1
Chief Engineer, SIRTI Milan	2
" " " "	2
Ing Del NEGRO	1
" GRECO	1
" DANI c/o PADUA Repeater Stn	1
Ing PARISELLO (via Rome Fault Control)	1
One for State Dir Gen:	
Cable Officer	1
Transmission Officer	1
Capt Williams VERONA	2
(1 for SIRTI Cable Mtce Party)	
OC 157 T.E. Section	2
Azienda di Stato ROME	1

Declassified E.O. 12356 Section 3.3/NND No. 785015

SHEET 1.

VERONA TRENTO

AVAILABILITY OF PAIRS VERONA INNSBR

AFTER REPAIR JUNE-JULY 1945

VERONA R3 | ALA R5 | ROVEREDO CH | MATERELLO C.H.

301-310	c-Sitta 5
501-510	c Sitta 5
1-16	c Sitta/36
41-56	1 Pair
67-72	1 Pair
73-80	1 Pair
2 Radio Pr.	Sold/Scrapped

55.1 Km | 18.5 Km | 22.2 Km

34.2 Mls | 11.5 Mls | 13.8 Mls.

Notes: 1 All Conductors are of Copper

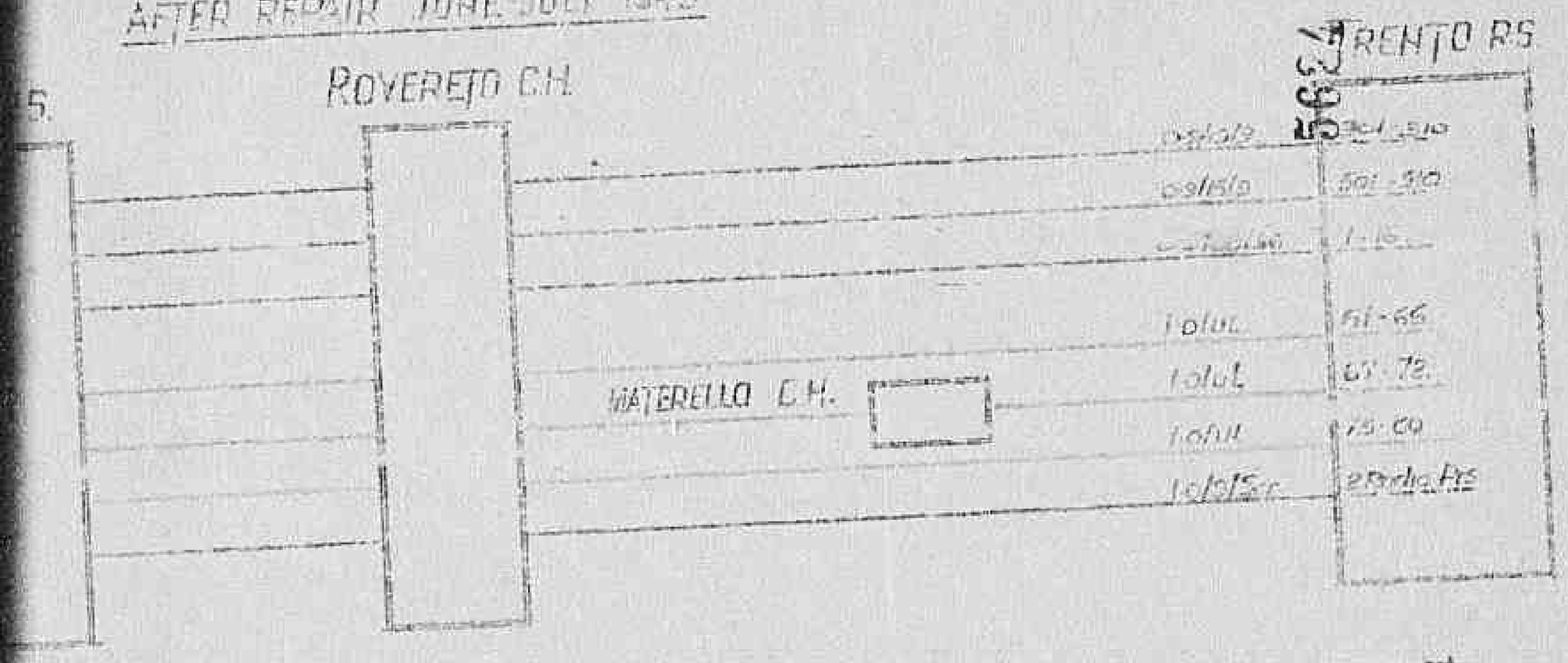
2 Pairs 73-80 are, at present, not available over the VERONA-ALA REPEATER SECTIO used for Repairs in this Section.

DWG: S.C 82 SHEET 1
5 July 45
EN

Declassified E.O. 12356 Section 3.3/NND No. 785015

BILITY OF PAIRS VERONA INNSBRUCK CABLE

AFTER REPAIR JUNE JULY 1945



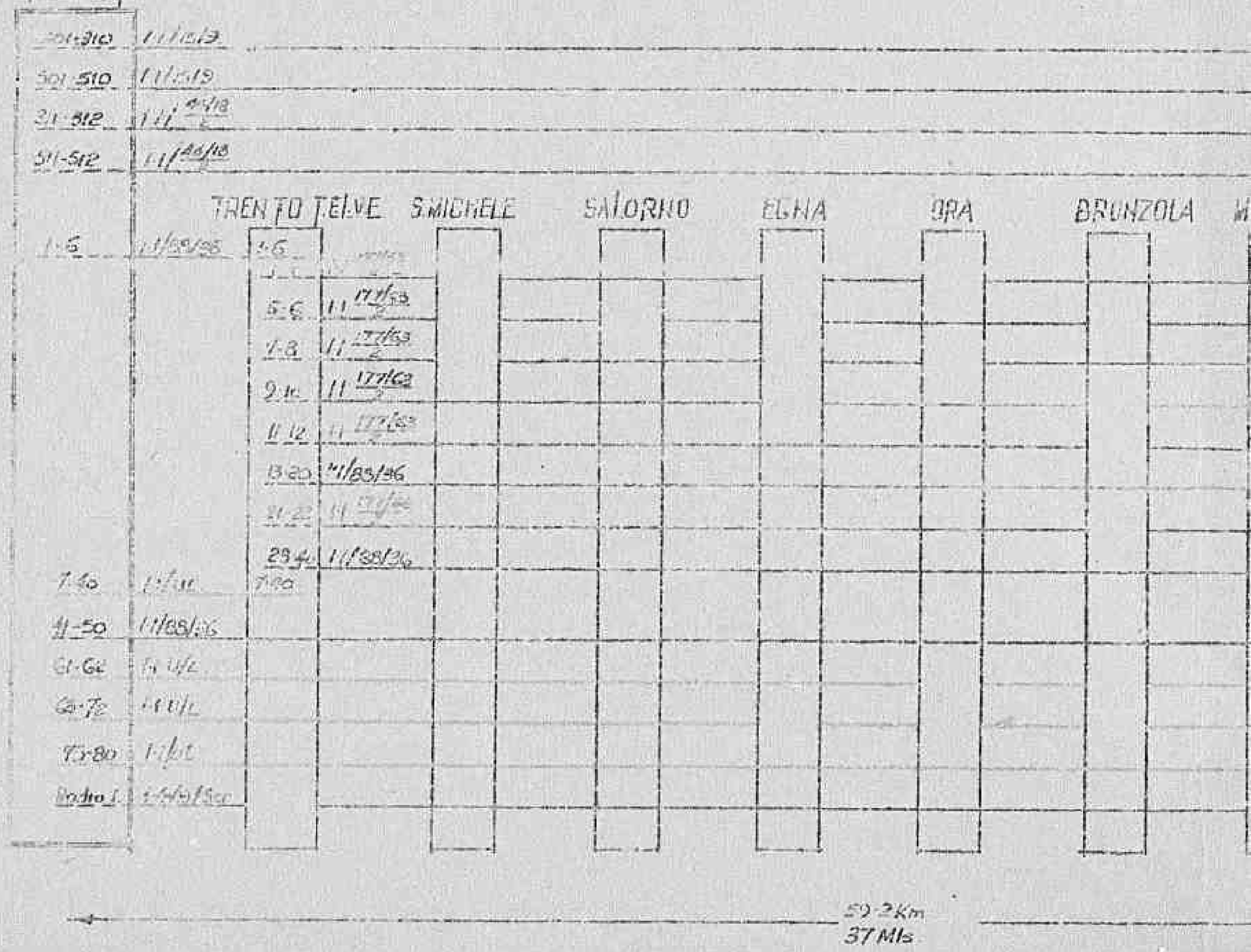
of Copper

present not available over the VERONA - ALA REPEATER SECTION as 25 Guage Cable has been used for Repairs in this Section.

Telegraphic Officer
No 1 UK CABLE COY.
R SIGNALS.

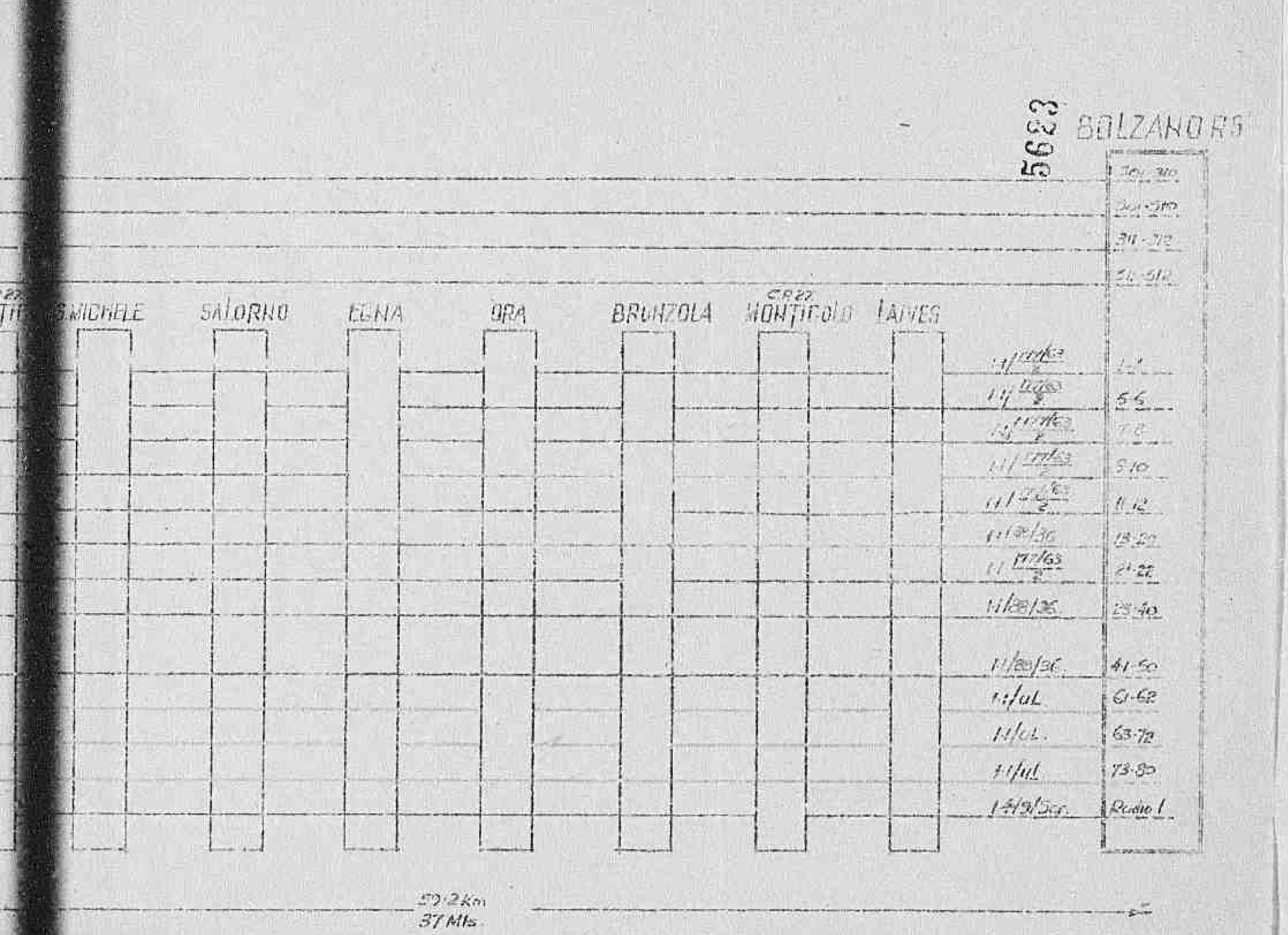
Declassified E.O. 12356 Section 3.3/NND No. 785015

SHEET 2.
TRENTO-BOLZANO



Declassified E.O. 12356 Section 3.3/NND No. 785015

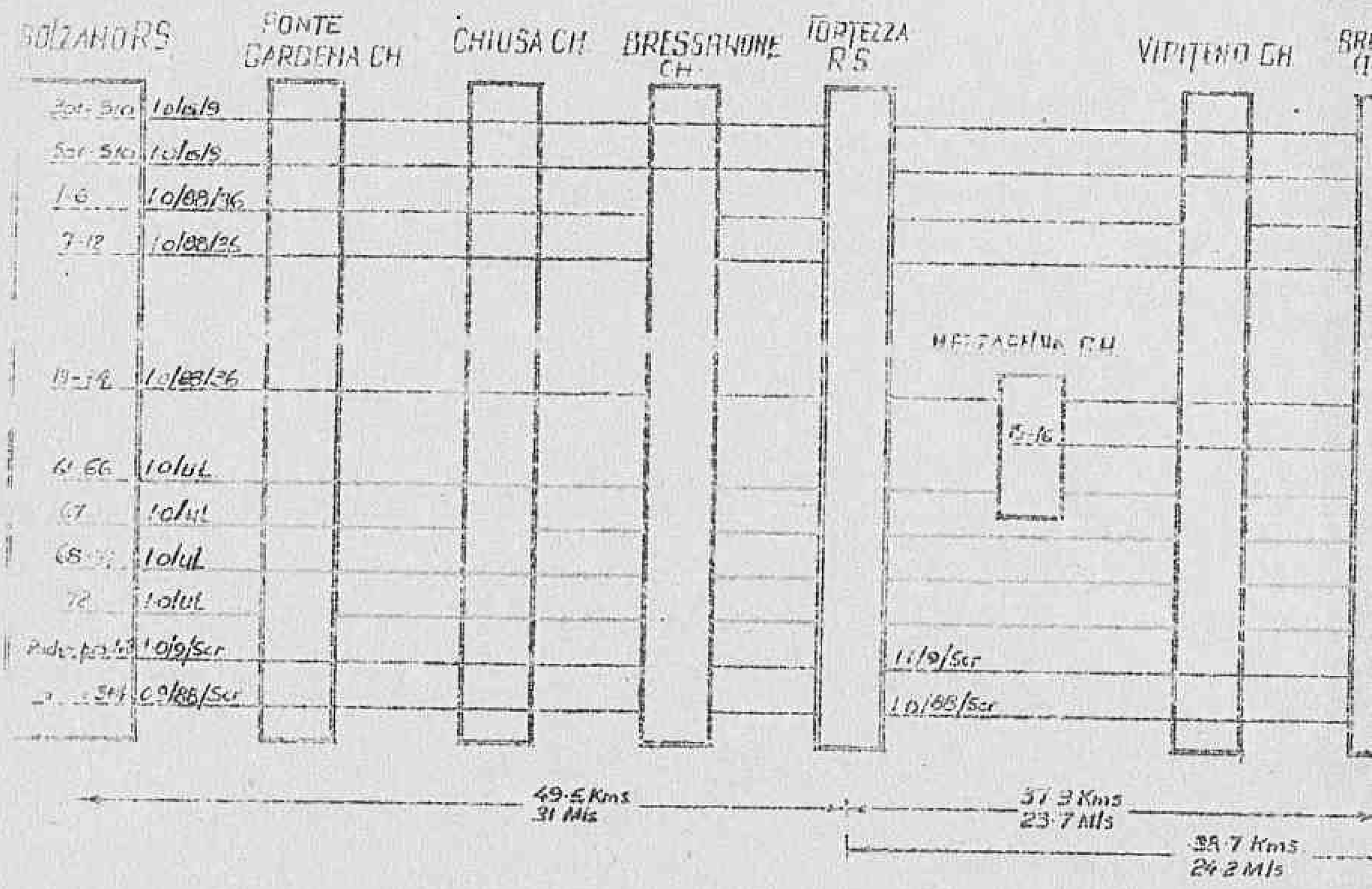
5623 BOLZANO RS



Declassified E.O. 12356 Section 3.3/NND No. 785015

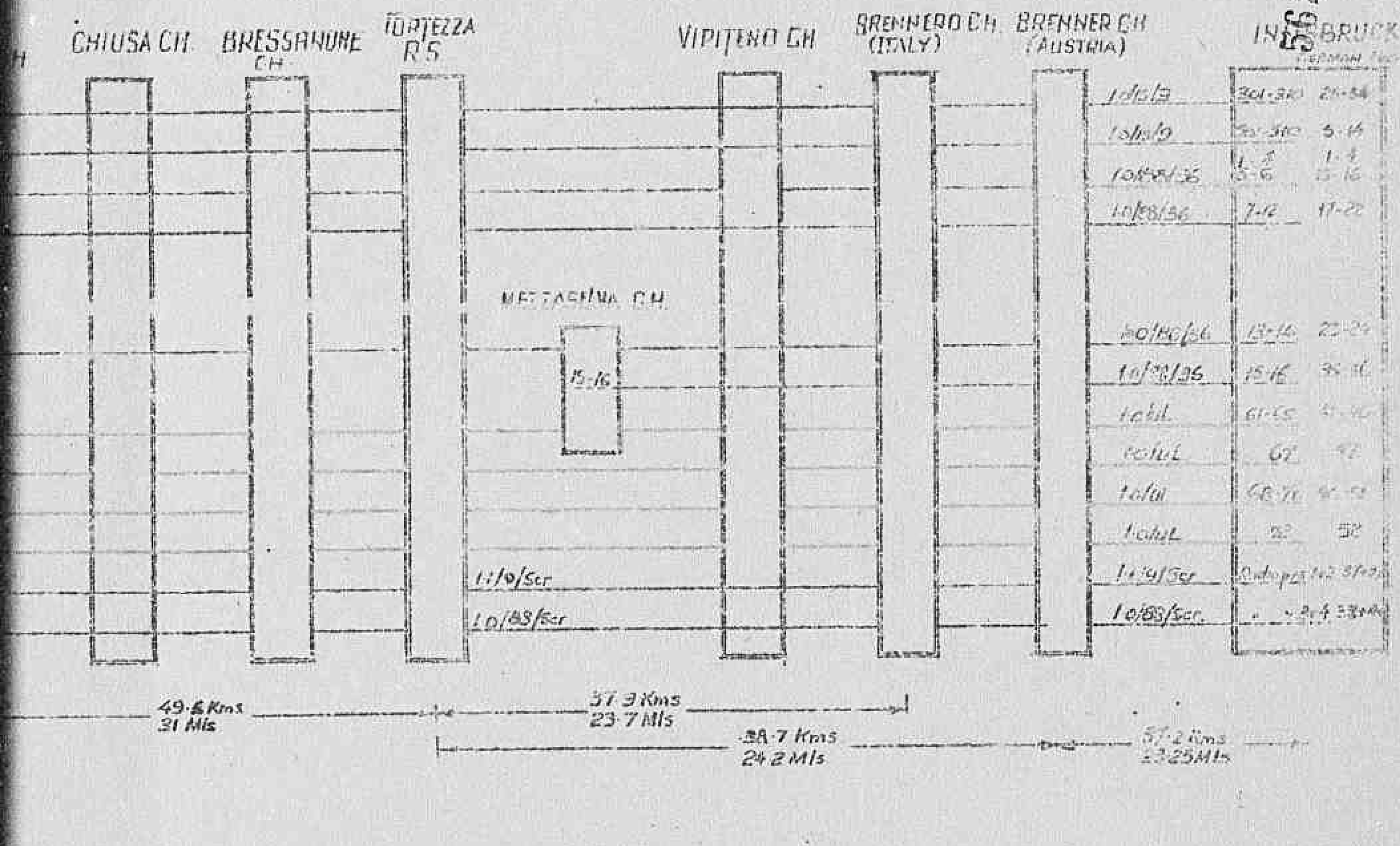
SHEET 3

BOLZANO - INNSBRUCK



Declassified E.O. 12356 Section 3.3/NND No. 785015

56.22



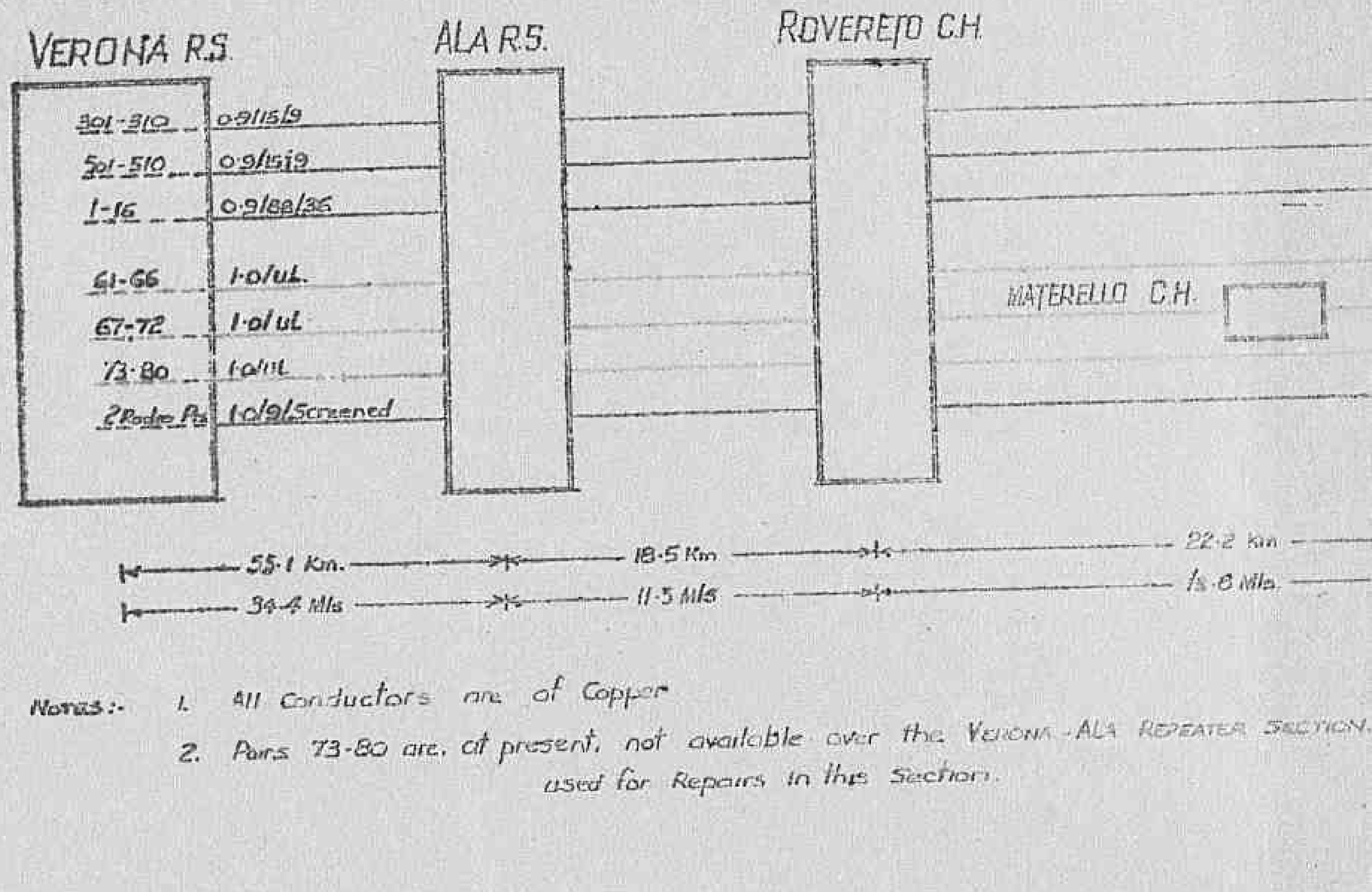
Declassified E.O. 12356 Section 3.3/NND No. 785015

SHEET. 1.

VERONA TRENTO

AVAILABILITY OF PAIRS VERONA INNSBRUC

AFTER REPAIR JUNE-JULY 1945



Notes:- 1. All Conductors are of Copper

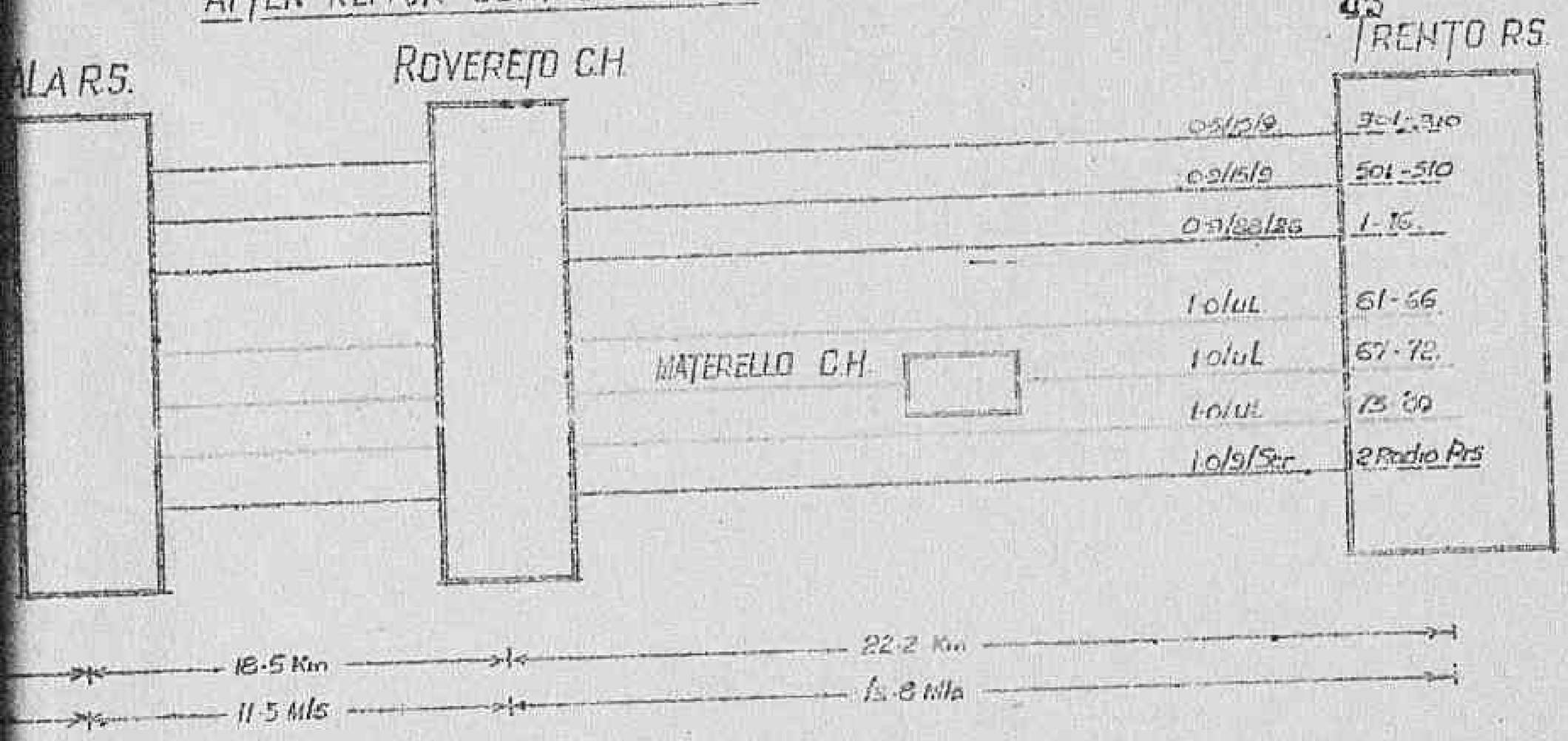
2. Pairs 73-80 are, at present, not available over the VERONA-ALA REPEATER SECTION. used for Repairs in this Section.

DWG T.S.C 82 SHEET 1.
5 July 45
WL.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AILABILITY OF PAIRS VERONA INNSBRUCK CABLE

AFTER REPAIR JUNE-JULY 1945



are of Copper

. at present, not available over the VERONA-ALA REPEATER SECTION. 25 QUAD CABLE has been used for Repairs in this Section.

"Transmission Officer,
No 1 Lit. CABLE COY,
R. SIGNALS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

SHEET 2.
TRENTO-BOLZANO

TRENTO RS

301-312	1-11-519
301-510	1-11-519
311-312	1-1 49/18
511-512	1-1 144/18

TRENTO T.ELV.E. S.MICHELE SALORNO EGNA ORA BRONZOLA MON

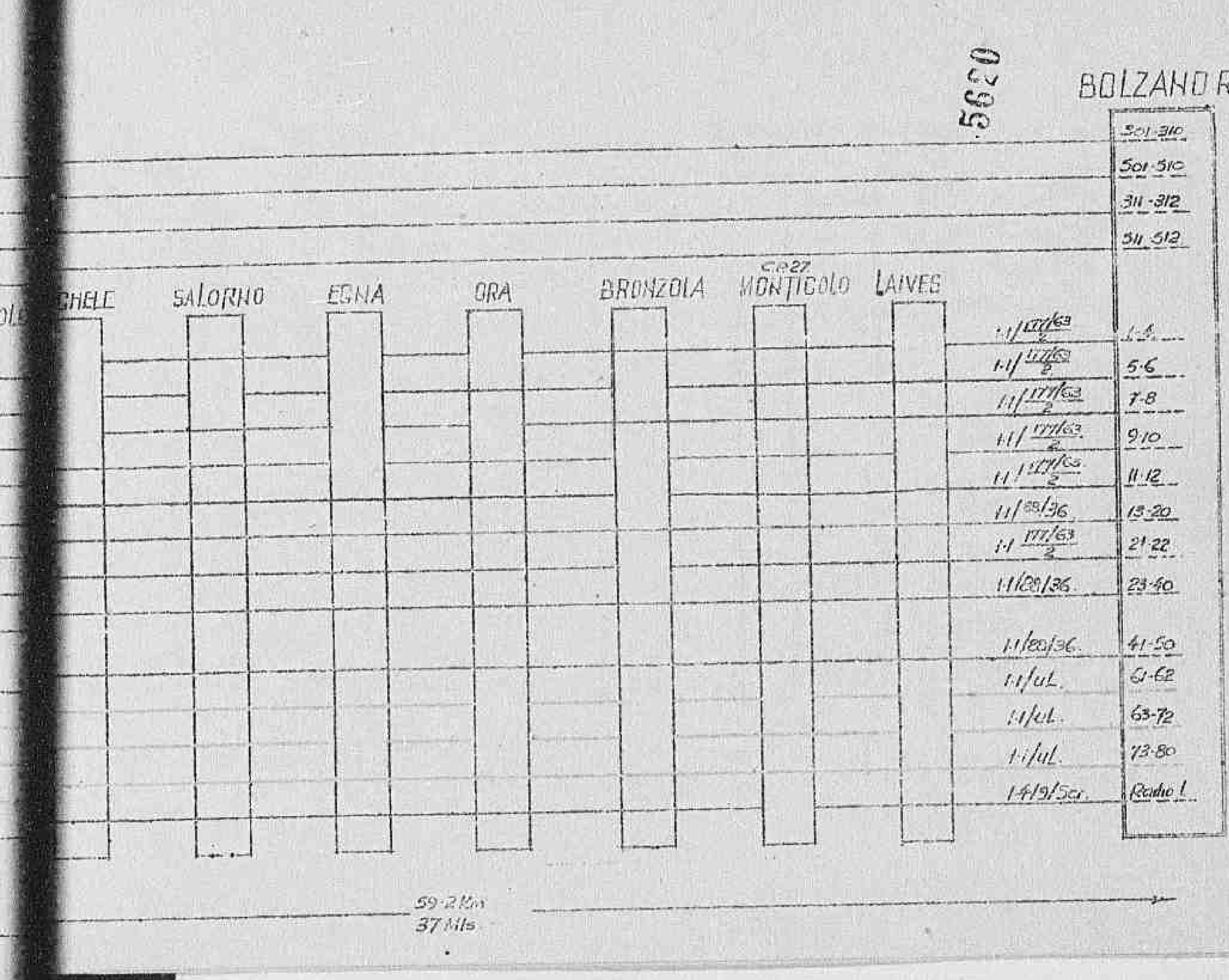
1-6	1-1/88/36	1-6	
		1-1	1-1 177/63
		5-6	1-1 177/63
		7-8	1-1 177/63
		9-10	1-1 177/63
		11-12	1-1 177/63
		18-20	1-1/88/36
		21-22	1-1 177/63
		29-40	1-1/88/36
7-40	1-1 u/l.	7-40	
41-50	1-1/88/36		
61-62	1-1 u/l.		
69-72	1-1 u/l.		
73-80	1-1 u/l.		
Bodio 1.	1-1-1/5 sec		

59.2 Km
37 Mls

Declassified E.O. 12356 Section 3.3/NND No. 785015

5670

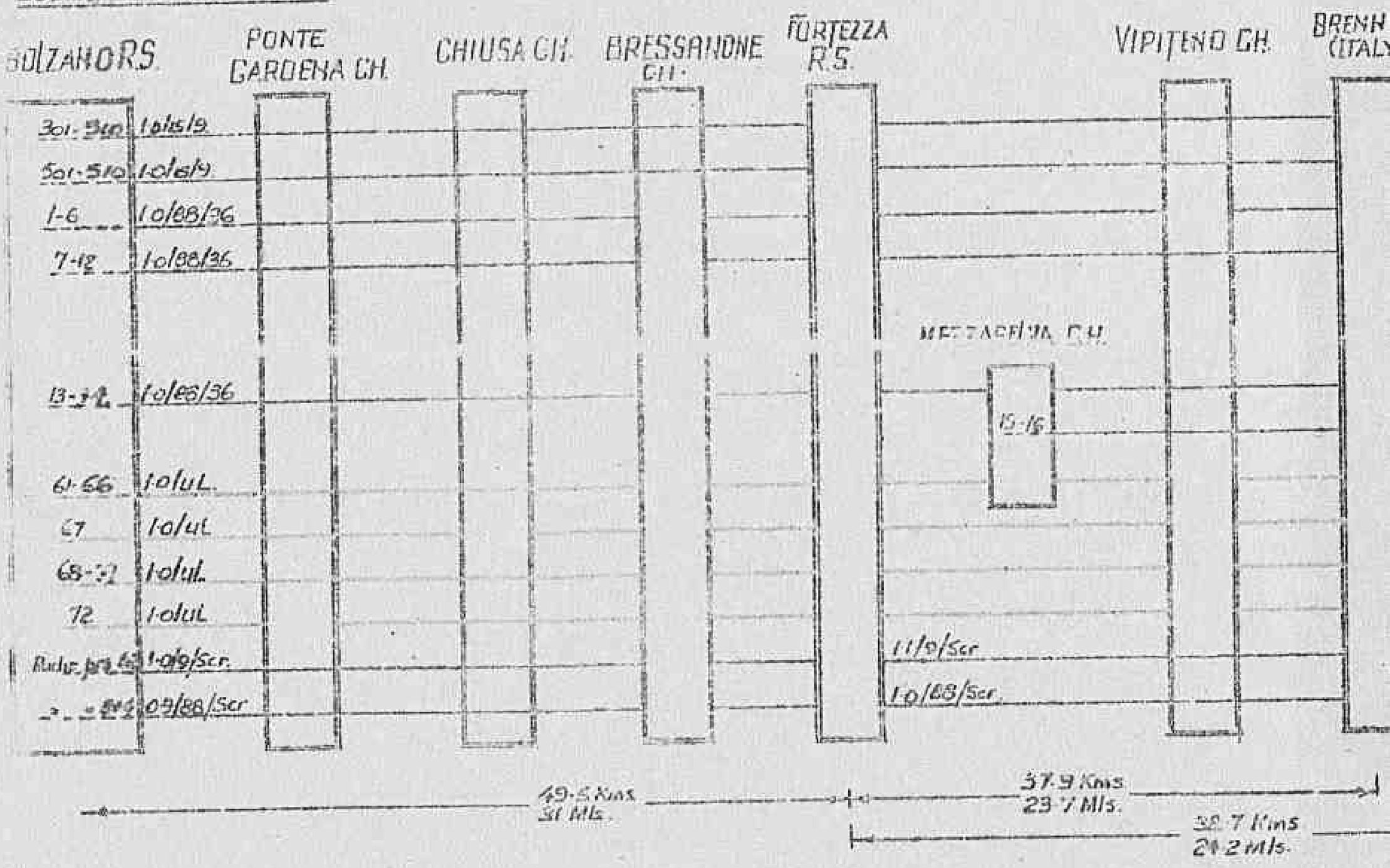
BOLZANO RS



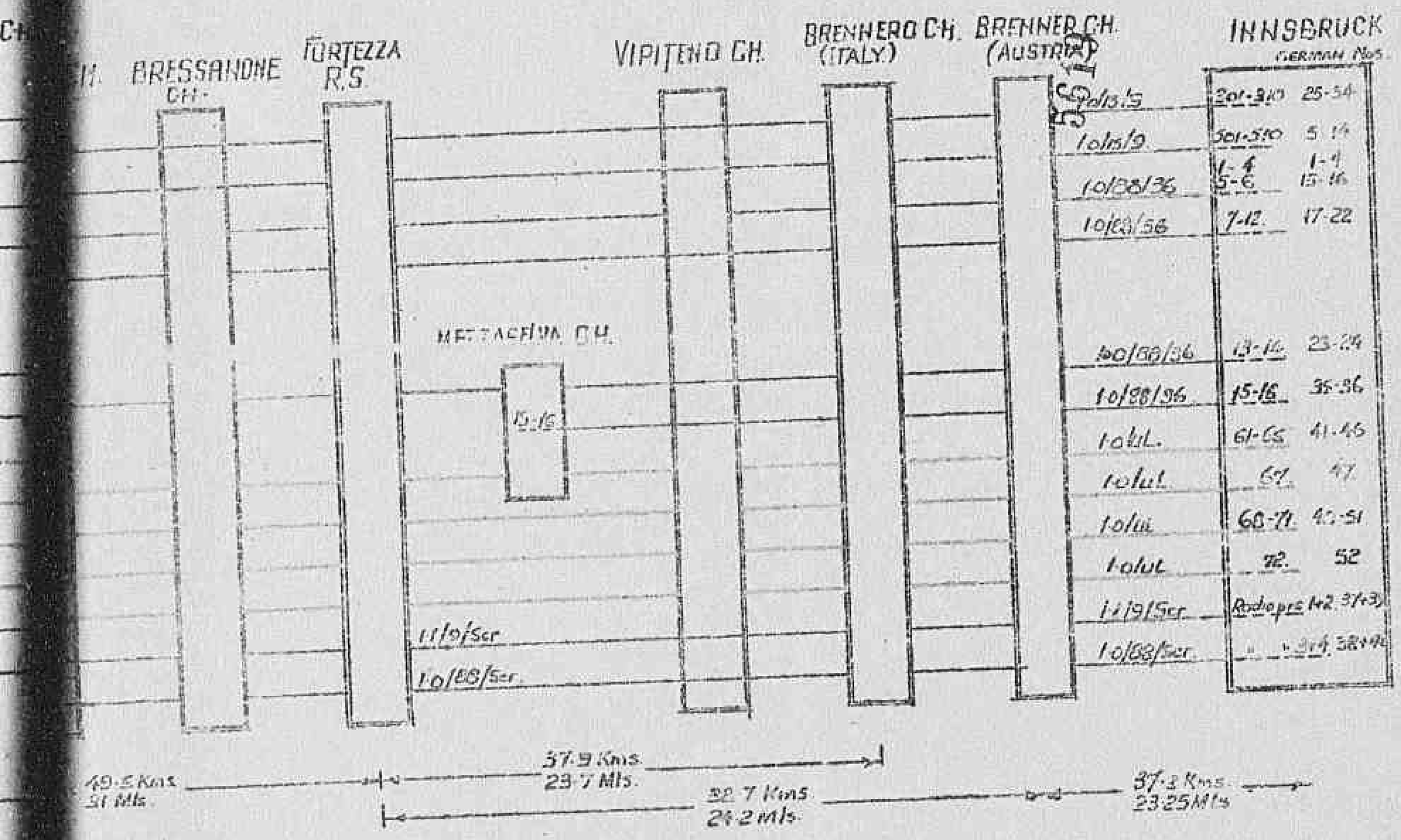
Declassified E.O. 12356 Section 3.3/NND No. 785015

SHEET 3

BOLZANO - INNSBRUCK



Declassified E.O. 12356 Section 3.3/NND No. 785015



13

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

T.64. .CS 6 July, 1945

SUBJECT: Bologna Repeater Station

TO : Under-Secretary of State for PP.TT.

1. Please see attached letter from your Inspector and the Memo. sent as a result to this HQ by Major Ogden.

2. Kindly take up the matter directly with your Inspector any further action is needed.

H.H.SCUDDER
Lt.Col.Sgs.C.
Director.

Enclosures:
Letter of 30 June
Memo of 2nd July.

Declassified E.O. 12356 Section 3.3/NND No. 785015

2. Kindly take up the matter directly with your Inspector, if any further action is needed.

H.H.SCUDDER,
Lt.Col.Sgs.C.
Director.

Enclosures:
Letter of 30 June
Memo of 2nd July.

File

5619

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

12

HEADQUARTER AILLIED COMMISSION
APO 394
Communications Sub-Commission HTWM/ec

4 July, 1945

T.64.12.CS

SUBJECT: Provision of Repeater Station Equipment North Italy/

TO : Under Secretary of State for PP.TT.

1. Please see attached memo.

2. Would you kindly place the necessary contract.

H.H.SCUDDER,
Lt.Col.Sgs.C.
Director

Enclosure:
Memo of 2nd July.

5617

Subject: Italian State Underground Cable System.
Provision of Civil Type Repeater Equipment.
Northern Italy.

No 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 45/25
2 July 45

To:
Director,
Communications Sub Commission,
HQ A.C. (2 copies)

1. The circuits at present in service on the BOLOGNA - CASTEGGIO and BOLOGNA - UDINE - TRIESTE - VILLACH cables, for Military, A.C., and civil use have been provided by the use of Mobile Repeater Stations and Military Repeater equipment at the majority of the Repeater Stations.

2. The SIRTI (Roma) are continuing with the installation of civil type equipment, in accordance with a plan drawn up by this organisation, and it is now possible to detail the work which is being carried out by the SIRTI at most of the Stations concerned. This work is detailed in the attached Appendix.

3. Please may the Azienda di Stato per i Servizi Telefonici be requested to place an order on the SIRTI for the carrying out of this work. The SIRTI have already been instructed to proceed with the work, pending the receipt of the order from the Azienda, in order that the Military equipment may be released from service and the available communication somewhat increased in quantity.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Copies to: CSO L of C Italy (Main) 1
C.E. SIRTI (Roma) 1

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. The circuits at present in service on the BOLOGNA - CASTEGGIO and BOLOGNA - UDINE - TRIESTE - VILLACH cables, for Military, A.C., and civil use have been provided by the use of Mobile Repeater Stations and Military Repeater equipment at the majority of the Repeater Stations.

2. The SIRTI (Roma) are continuing with the installation of civil type equipment, in accordance with a plan drawn up by this organisation, and it is now possible to detail the work which is being carried out by the SIRTI at most of the Stations concerned. This work is detailed in the attached Appendix.

3. Please may the Aziende di Stato per i Servizi Telefonici be requested to place an order on the SIRTI for the carrying out of this work. The SIRTI have already been instructed to proceed with the work, pending the receipt of the order from the Aziende, in order that the Military equipment may be released from service and the available communication somewhat increased in quantity.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Copies to: CSO L of C Italy (Main) 1
C.E. SIRTI (Roma) 1
" " (Milano) 1
Lt Col GA Keith 2
Ing DEL NEGRO (SIRTI) 2
Transmission Officer 1
War Diary 2
Files: TS 45/18, TS 45/24, TS 45/23, TS 45/28, TS 45/29

5-6

Director
D/Director
Chief Telecoms
Chief Posts
H Q Corps O
Asst Chief Posts
Censorship
Chief Clerk.

CENSOR. REFS
FILE 64
B/Rvd.
Date

Declassified E.O. 12356 Section 3.3/NND No. 785015

Appendix to

No 1 Underground Cable Coy letter No 45/25

Details of Work to be carried out

1. BOLOGNA Repeater Station

(a) Install, cable, test out and bring into service the following equipment:-

Cable Terminating Bays and Line Transformers for all cables terminating at BOLOGNA, so arranged as to cater for the original number of pairs in each of the cables.

3 Toll Test Boards, with Test Jacks for 108 Terminating Circuits,
1 D.C. Bridge and Voltmeter C.D.F. and Fuse Bays

7 Bays of 4-wire Repeaters	112	Repeaters
3 Bays of 2-wire 500/20 Signalling Units	43	Units
1 Bay of 4-wire 500/20 Signalling Units	13	Units
2 Bays of 4-wire Terminating Sets	56	Units
1 "Standard" Type T.M.S. & Oscillator (from MODENA)		
2 500/20 cps and 20 cps Generators (from MODENA)		
1 Power Switchboard for Filament, Anode and Telegraph batteries and for incoming A.C. supply		
1 24 volt 100 Amp Rectifier		
1 130 volt 5 Amp Rectifier		
2 80 volt Rectifier		
1 800 cps Oscillator		
4 24 volt 175 Ah Batteries (for Telegraph Equipment)		
2 24 volt 900 Ah Batteries		
4 18 Channel V.F. Telegraph Systems. Complete		

} Supplied by Allied Forces

(b) The following equipment has already been supplied and installed by Allied Forces.

1 Diesel Engine 15 KVA, with Transformer 400v to 260v
3 Voltage Regulators for A.C. Mains
22 "Standard" Type Cable Terminating Tablets (12 Quad)

2. MODENA Repeater Station

(a) Repair, rearrange, recable and bring into service the following equipment:-

48 4-wire Repeaters (36 initially)
(Cabled so as to be semi-flexible)
Cable Terminating Tablets (SIRTI Type) for 56 quads East & West
2 Toll Test Boards, with D.C. Bridge & Voltmeter, and Test Jacks for 36 Terminating Circuits.
13 2-wire 500/20 Signalling Units
14 4-wire Terminating Sets (Supplied by Allied Forces)

Declassified E.O. 12356 Section 3.3/NND No. 785015

1 Power Switchboard for Filament, Anode and Telegraph batteries and for incoming A.C. supply
1 24 volt 100 Amp Rectifier
1 130 volt 5 Amp Rectifier
2 80 volt Rectifier
1 800 cps Oscillator
4 24 volt 175 Ah Batteries (for Telegraph Equipment)
2 24 volt 900 Ah Batteries
} Supplied by Allied Forces
4 18 Channel V.F. Telegraph Systems. Complete

(b) The following equipment has already been supplied and installed by Allied Forces.

1 Diesel Engine 15 KVA, with Transformer 400v to 260v
3 Voltage Regulators for A.C. Mains
22 "Standard" Type Cable Terminating Tablets (12 Quad)

2. MODENA Repeater Station

(a) Repair, rearrange, recable and bring into service the following equipment:-

48 4-wire Repeaters (36 initially)
(Cabled so as to be semi-flexible)
Cable Terminating Tablets (SIRTI Type) for 56 quads East & West
2 Toll Test Boards, with D.C. Bridge & Voltmeter, and Test Jacks for 36 Terminating Circuits.
13 2-wire 500/20 Signalling Units
14 4-wire Terminating Sets (Supplied by Allied Forces)
1 British "Standard" Type 500/20 cps & 20 cps Supply Bay (Supplied by Allied Forces)
Overhaul and Repair the complete Power Plant, and Station Alarm System
1 FACE Type Variable Frequency Oscillator and T.M.S.

The initial phase of the above work has already been completed.

3. SAN SECUNDO Repeater Station
MONTU BECCARIA Repeater Station

Install, cable, test out, and bring into service at each of the above two Stations:-

Cable Terminating Bays and SIRTI Type Cable Terminating Tablets for the complete cables (before repair).
2 Toll Test Boards, with D.C. Bridge and Voltmeter.
48 4-wire Repeater (Non-Flexible)
2 20 cps Machines
1 FACE Type Variable Frequency Oscillator and T.M.S.
Power Switchboard

Declassified E.O. 12356 Section 3.3/NND No. 785015

3. (cont)
1 24 volt 100 Amp Rectifier
1 130 volt 5 Amp Rectifier
2 80 volt Rectifiers (Supplied by Allied Forces)
1 24 volt Motor Generator Set
1 24 volt and 130 volt Petrol Driven Emergency Set
1 130 volt Battery 175 Ah } Supplied by Allied Forces
1 24 volt Battery 900 Ah }

The above equipment is to be installed in the wooden buildings already provided by SIRTI (Milano)
(See letter TS 45 of 11th May 1945). It will also be necessary to divert the Main Cables from the temporary Stage I Repeater Stations.

4. POGGIO RENATICO Repeater Station (Siemens' Type)

Repair, rearrange, recable and bring into service the following 'Siemens' type equipment:-

10 4-wire Repeaters
20 2-wire Repeaters with 20 cps Panels

Install the following items of equipment:-

32 4-wire Repeaters
10 2-wire Repeaters
2 Line Transformer Racks

Overhaul and repair as necessary the complete Power Plant and Station Alarm System.

2 July 45

RSIO:r1H

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

Declassified E.O. 12356 Section 3.3/NND No. 785015

56.4

Repair, recharge, service and bring into service the following 'Siemens' type equipment:-

10 4-wire Repeaters
20 2-wire Repeaters with 20 cps Panels

Install the following items of equipment:-

32 4-wire Repeaters
10 2-wire Repeaters
2 Line Transformer Racks

Overhaul and repair as necessary the complete Power Plant and Station Alarm System.

2 July 45

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

56.4

Declassified E.O. 12356 Section 3.3/NND No. 785015

10/

Subject: Italian State Underground Cable
North West Italy.

No 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 42/21
30 June 45

To:
Distribution

1. Herewith copies of Cable Pair Layout diagrams for the following cable, showing the pairs which will be available after repair has been completed by this Company.

BOLOGNA - VERONA

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col G.A. Keith, R.Signals

RSIO:r1H

Distribution:

CSO L of C Italy (Main)	2	
" " " (Advance)	1	
CSO No 1 District	2	
" " 2 "	2	
Director, Communications Sub Commission, HQ A.C.	2	
OC Fault Control BOLOGNA	1	
OC Maintenance Control VERONA	1	
FLORENCE Repeater Station	2)	One for
BOLOGNA " "	2)	State Dirigenti
VERONA " "	2)	
Telecommunications Officer, AC/AMG BOLOGNA	1	
Lt Col G.A. Keith, R.Signals	1	
Mr Jacobs, SIRTI Milan	1	
Chief Engineer, SIRTI Rome	1	

Declassified E.O. 12356 Section 3.3/NND No. 785015

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BOLOGNA - VERONA

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col G.A. Keith, R.Signals

RSIO:r1H

Distribution:

CSO L of C Italy (Main)	2	
" " " (Advance)	1	
CSO No 1 District	2	
" " 2 "	2	
Director, Communications Sub Commission, HQ A.C.	2	
OC Fault Control BOLOGNA	1	
OC Maintenance Control VERONA	1	
FLORENCE Repeater Station	2)	One for State Dirigenti
BOLOGNA " "	2)	
VERONA " "	2)	
Telecommunications Officer, AC/AMG BOLOGNA	1	
Lt Col G.A. Keith, R.Signals	1	
Mr Jacobs, SIRTI Milan	1	
Chief Engineer, SIRTI Rome	1	
" " " Milano	1	
Ing DEL NEGRO	1	
" GRECO	1	
" DANI c/o PADUA Repeater Station	1	
Azienda di Stato ROME	1	
Ing FARIELLO (via Roma Fault Control)	1	
Cable Officer	1	
Transmission Officer	1	

Files: TS 42/21 TS 49

Director
D/Director
Chief Telecoms.
Chief Postal
H.Q. Corps. O.
Asst Chief Postal
Censorship
Chief Clerk

5613

FILE T.64 B/Fw

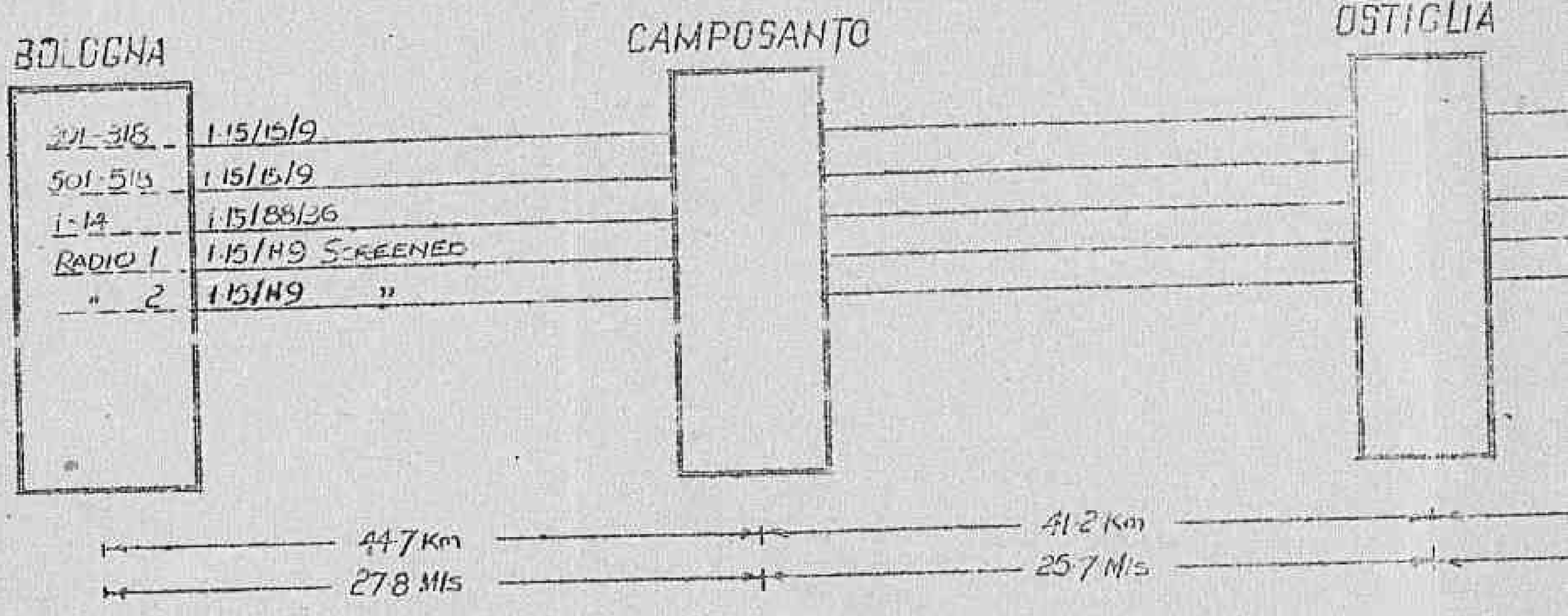
Date 21 AUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS BOLOGNA-VERONA

AFTER REPAIR JUNE-JULY 1945



NOTES:- (1) All conductors are of Aluminium except over BOLOGNA - L.A.G. (BOLOGNA - CAMPOS copper conductors have been used.

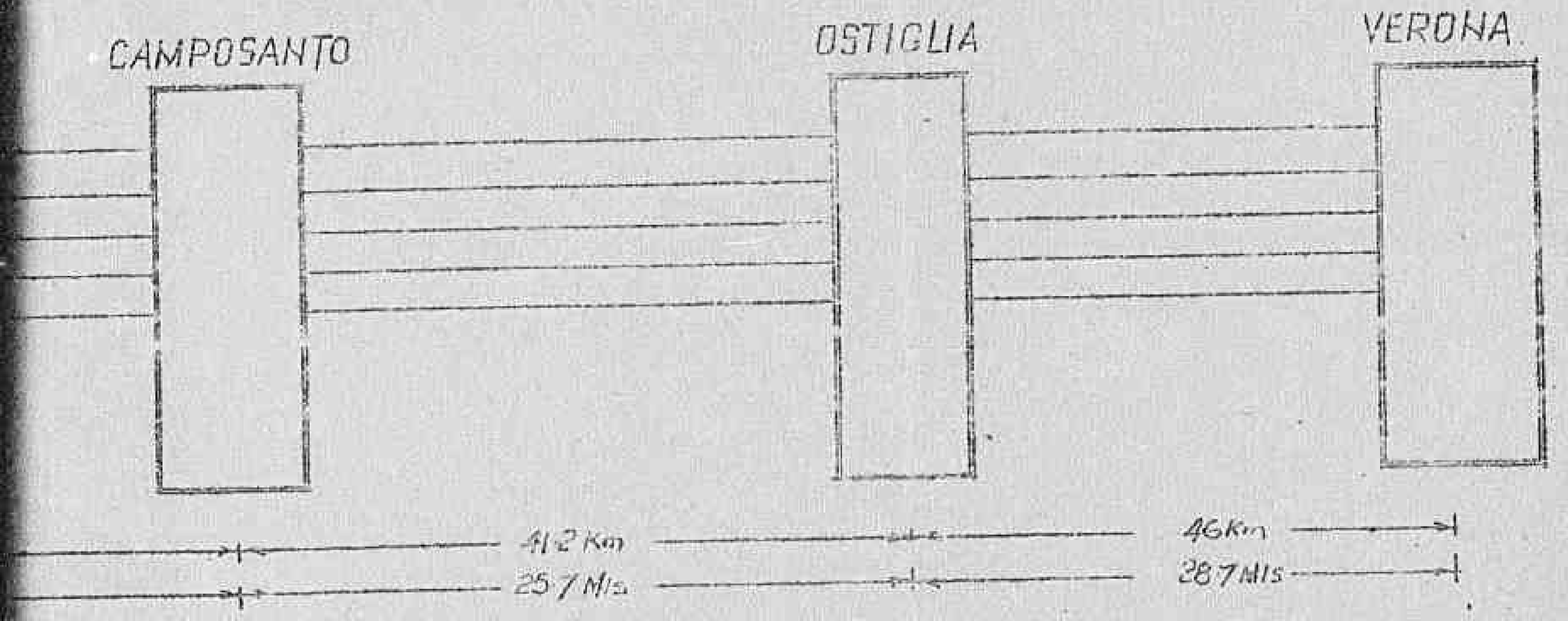
(2) The approximate attenuation of the pairs at 800cps is 1.15/15/9 0.7db per mile
1.15/88/36 0.42 db per mi

DWG No T.S.C. 81.
29 JUNE 45.

Declassified E.O. 12356 Section 3.3/NND No. 785015

...ARILITY OF PAIRS BOLOGNA-VERONA

AFTER REPAIR JUNE-JULY 1945



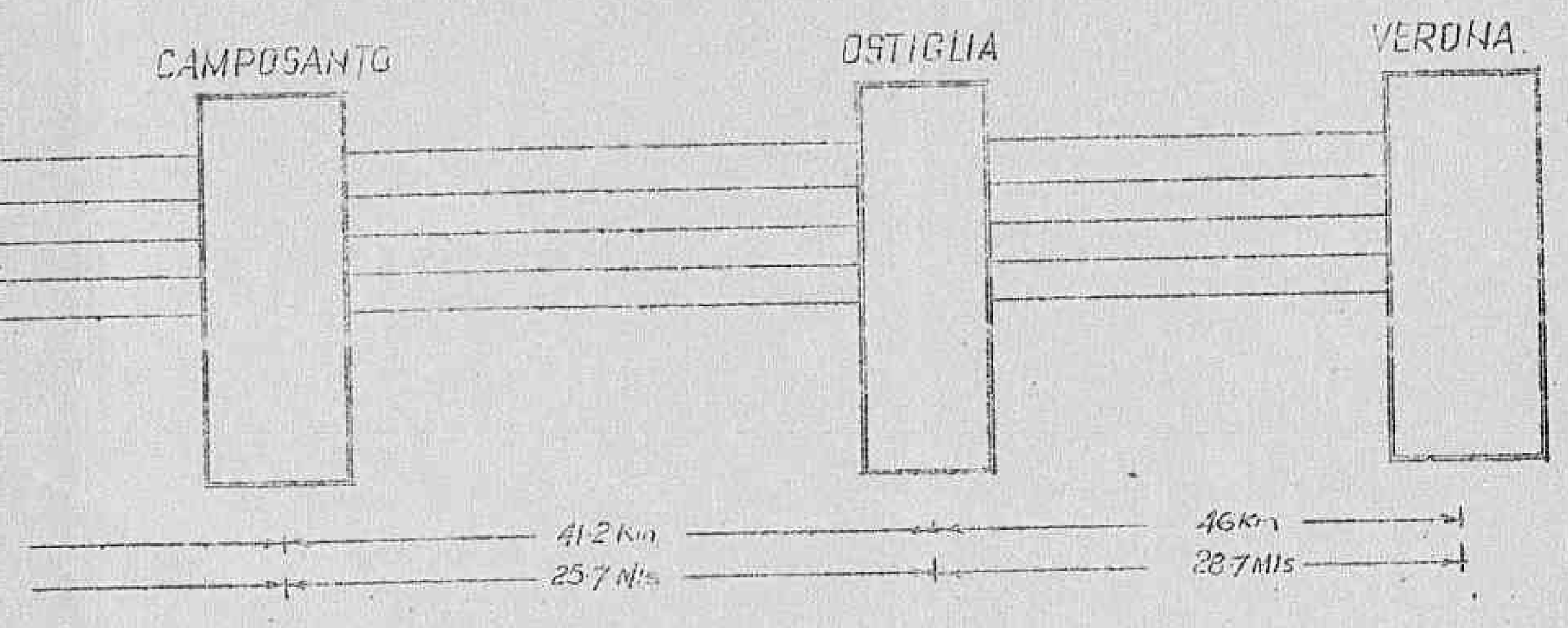
...of Aluminium except over BOLOGNA - L.P.O. (BOLOGNA - CAMPOSANTO Section) where 1·3mm copper conductors have been used.

...enuation of the pairs at 800cps is 1·15/12/19 0·7db per mile.
1·15/88/36 0·42db per mile

Transmission Officer
No 1 U/G Cable Company
R. SIGNALS.

AILABILITY OF PAIRS BOLOGNA-VERONA

AFTER REPAIR JUNE-JULY 1945



are of Aluminium except over BOLOGNA - L.P.6 (BOLOGNA - CAMPOSANTO Section) where 1·3mm copper conductors have been used.

attenuation of the pairs at 800cps 15 1/15/1519 0·7db per mile.
1/15/20/36 0·42 db per mile

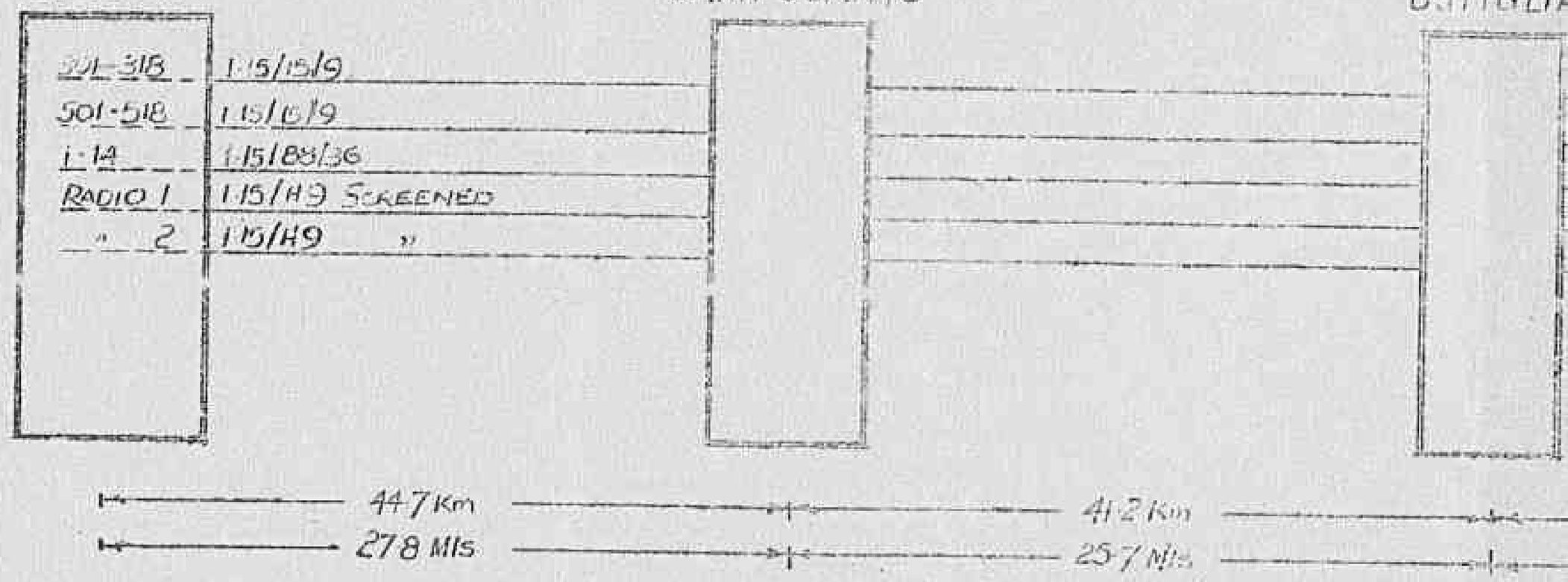
Transmission Officer
No 1 U/G CABLE COMPANY
R. SIGNALS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS BOLOGNA-VERONA

AFTER REPAIR JUNE-JULY 1945



NOTES:- (1) All conductors are of Aluminium except over BOLOGNA - L.P.6 (BOLOGNA - CAM
copper conductors have been used.

(2) The approximate attenuation of the pairs of 800cps is 1·15/15/3 0·7db per
1·15/88/36 0·42 db per

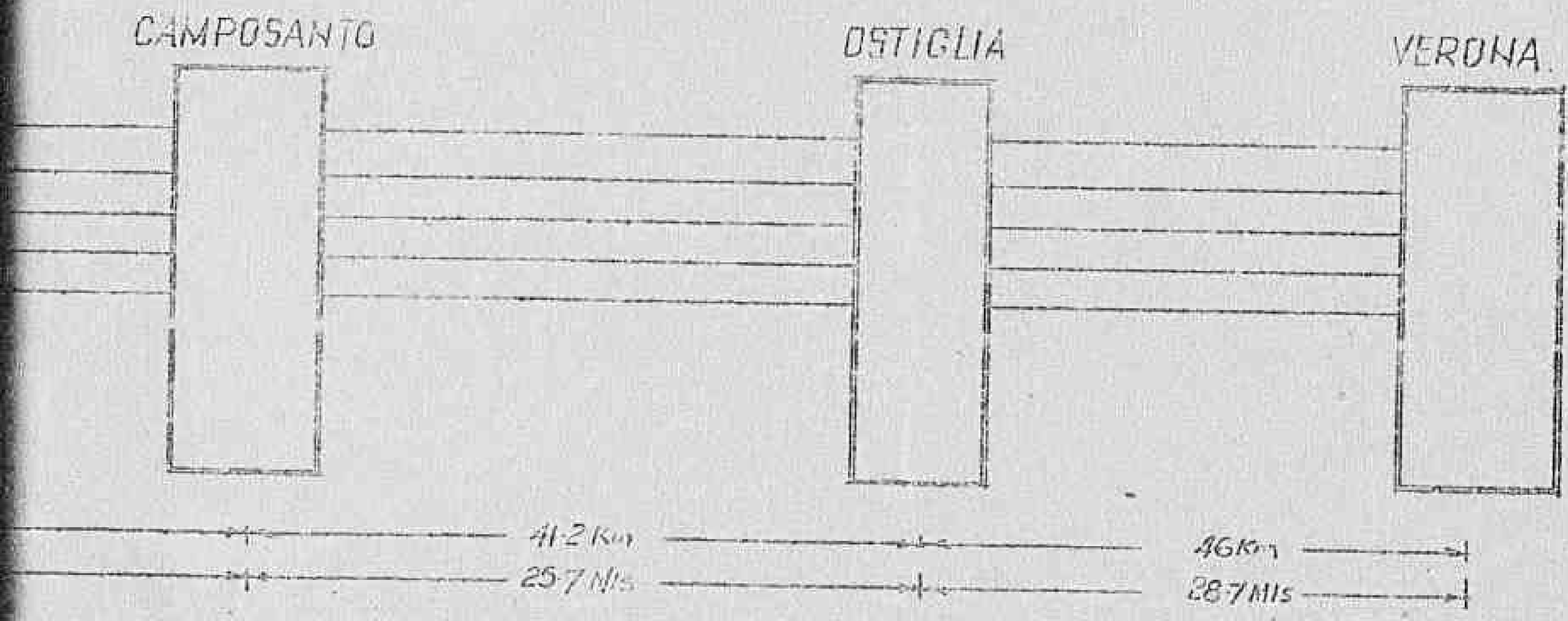
T.S.C. 81

DWG No T.S.C. 81.
29 JUNE 45.

Declassified E.O. 12356 Section 3.3/NND No. 785015

...LABILITY OF PAIRS BOLOGNA-VERONA

AFTER REPAIR JUNE-JULY 1945



...of Aluminium except over BOLOGNA - L.P.6 (BOLOGNA - CAMPOSANTO Section) where 1·3mm copper conductors have been used.

...enuation of the pairs of 800cps is 1·13/1·19 0·7db per mile
1·15/1·36 0·42 db per mile

Transmission Officer
No 1 U/G Cable Company
R. Signals.

Subject: Italian State Underground Cable.
North West Italy

9

N° 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 42/21
29 June 45

To:
Distribution

1. Herewith copies of Cable Pair Layout diagram for the following cable, showing the availability of pairs after repair by this Company.

UDINE - [illegible]

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:r1H

Distribution:

CSO L of C Italy (Main)	2
" " " (Advance)	1
CSO Eighth Army	1
CSO 13 Corps	1
CSO N° 1 District	2
" 2 "	2
" 3 "	2
OC, N° 1 L of C Signals	2
Director, Communications Sub Commission, HQ AC	2
OC Signals, TRIESTE	1
OC Fault Control BOLOGNA	1
OC Maintenance Control PADUA	1
" " " UDINE	1
" " " MILAN	1
BOLOGNA Repeater Station	2
PADUA " "	2
UDINE " "	2

CROSS REFS | FILE T64 | B/Fwd.

Declassified E.O. 12356 Section 3.3/NND No. 785015

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:r1H

Distribution:

CSO L of C Italy (Main)		2
" " " (Advance)		1
CSO Eighth Army		1
CSO 13 Corps		1
CSO N° 1 District		2
" 2 "		2
" 3 "		2
OC, N° 1 L of C Signals		2
Director, Communications Sub Commission, HQ AC		2
OC Signals, TRIESTE		1
OC Fault Control	BOLOGNA	1
OC Maintenance Control	PADUA	1
" " "	UDINE	1
" " "	MILAN	1
BOLOGNA Repeater Station		2
PADUA " "		2
UDINE " "		2
PLEZZO " "		2
Telecommunications Officer, AC/AMG	BOLOGNA	1
" " "	PADUA	1
" " "	MILAN	1
Lt Col GA Keith, R.Signals		1
Mr Jacobs, SIRTI Milan		1
Chief Engineer, SIRTI Roma		2
" " " Milano		2
Ing DEL NEGRO		1
" LANI c/o PADUA Repeater Station		1
Azienda di Stato, ROME		1
Ing FARIELLO (via Rome Fault Control)		1
Cable Officer		1
Transmission Officer		1
Files: TS 42/21		
TS 49		

CROSS REFS

FILE T.64 B/Fwd.

Date 4 AUG 1945

Director
D/Director
Chief Telecoms
Chief Postal
HQ Comms O.
Asst Chief Postal
Censorship
Chief Clerk

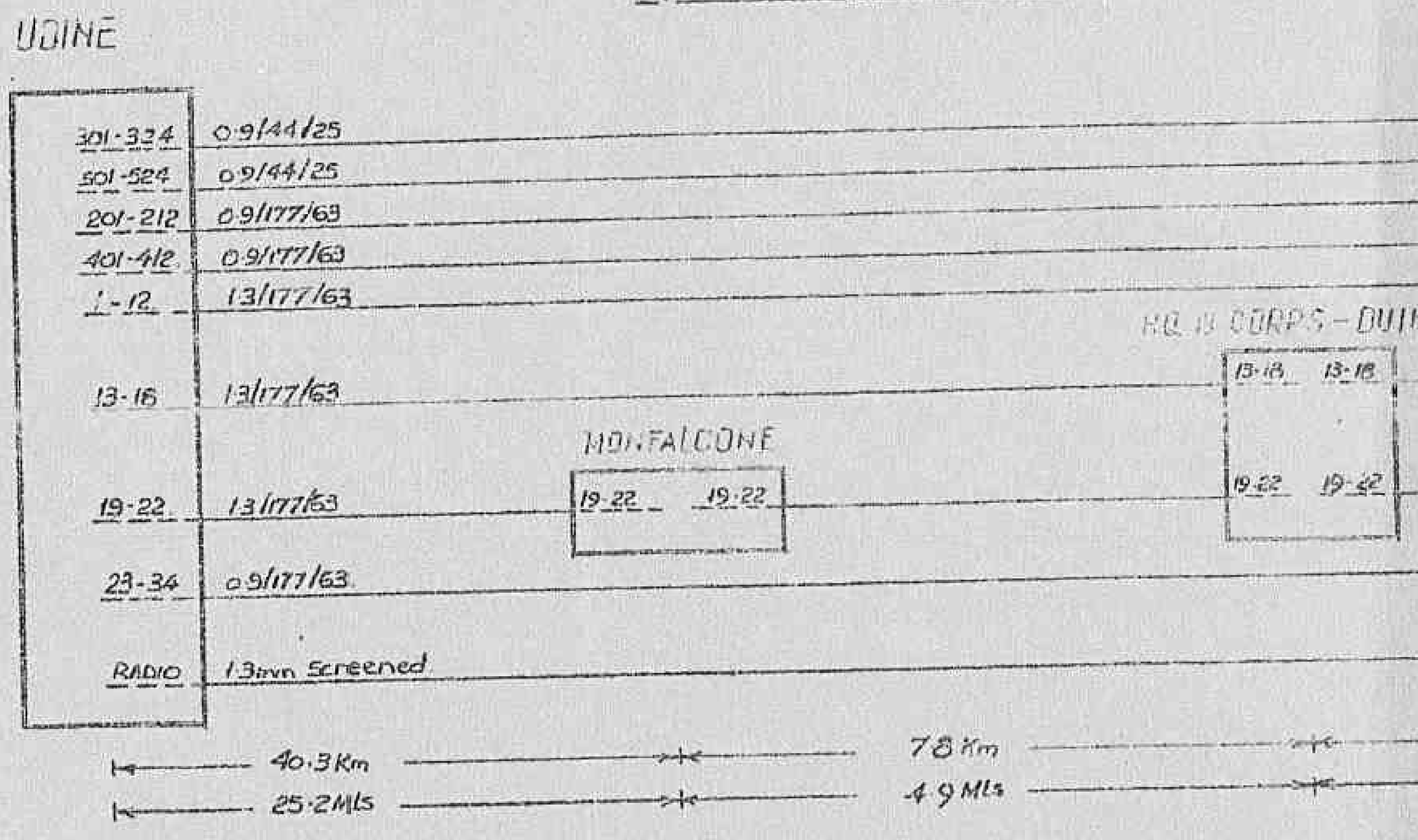
5616

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS UDINE - TRIESTE

AFTER REPAIR JUNE 1945



NOTES:-

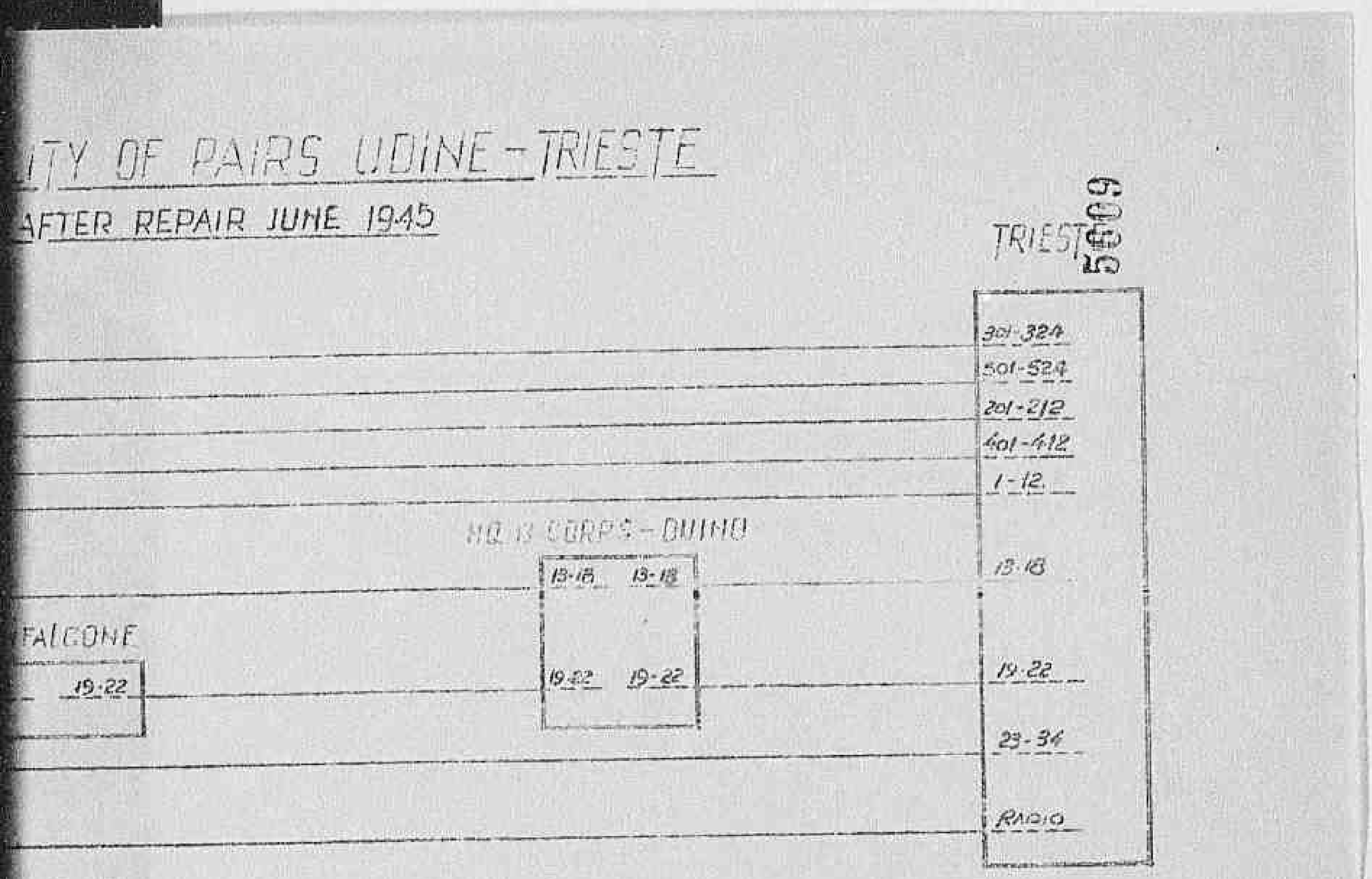
1. 2x28 Quad Cable used for repairs
2. Pairs 21-34 & the radio pair are unloaded at L.P.40. ONLY. All other pairs are fully loa
3. Approximate attenuation of pairs 0.9mm H 44/25 0.5 db/mile.
   0.9mm H 177/63 0.28 db/mile.
   1.3mm H 177/63 0.155 db/mile.

DWG No. TSC 80.
28 JUNE 45
WH

Declassified E.O. 12356 Section 3.3/NND No. 785015

ITY OF PAIRS UDINE - TRIESTE

AFTER REPAIR JUNE 1945



pairs.
: unloaded at L.P.10 only. All other pairs are fully loaded.

airs	0.9mm	H 44/25	0.5 db/mile.
	0.9mm	H 177/63	0.28 db/mile.
	1.3mm	H 177/63	0.153 db/mile.

TRANSMISSION OFFICER
No. 1U G CABLE COMPANY
R. SIGNALS.

Subject: Provision of Additional 2-wire Circuits
ROMA - FIRENZE

18

N° 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 48/2
28 June 45

To:
Aziende di Stato per i
Servizi Telefonici, ROMA

Reference this Company's letter TS 48/2 of 23 June 45, addressed to Chief Engineer, SIRTI, ROMA.

1. The Line Transformers, Artificial Lines and valves have now been delivered to SIENA and VITERBO Repeater Stations.

2. Please arrange for the 2-wire Repeaters to be prepared for service and the additional 2-wire circuits lined up immediately.

3. Instructions regarding the diversion of working circuit to make available pairs 15/16 ROMA - FIRENZE, and the allocation of the three new circuits are being issued by the Allied Forces.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:r1H

Copies to: CSO L of C Italy (Main)
Director, Communications Sub Commission, HQ A.C. Rome
Lt Col GA Keith
Chief Engineer, SIRTI, ROMA
Ing DEL NEGRO, ROMA
Ing FARIELLO, c/o ROME Fault Control
OC Fault Control ROME

Declassified E.O. 12356 Section 3.3/NND No. 785015

2. Please arrange for the 2-wire Repeaters to be prepared for service and the additional 2-wire circuits lined up immediately.

3. Instructions regarding the diversion of working circuit to make available pairs 15/16 ROMA - FIRENZE, and the allocation of the three new circuits are being issued by the Allied Forces.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Copies to: CSO L of C Italy (Main)
Director, Communications Sub Commission, HQ A.C. Rome —
Lt Col GA Keith
Chief Engineer, SIRTI, ROMA
Ing DEL NEGRO, ROMA
Ing FARIELLO, c/o ROME Fault Control
OC Fault Control ROME

Director
D/Director
Chief Telecoms
Chief Posts
Miss Lomas O..
Miss Chief Posts
Personnel
Chief Clerk

5608

FILE T.64 B/Fwd.

DATE 2 AUG 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

HEADQUARTERS ALLIED COMMISSION
APO 394
Communications Sub-Commission

17

HTW/ec

T.64.7.CS

29th June, 1945

SUBJECT: Lucca-Genova Cable.

TO : Lt.Col. Keith, N°1 Underground Cable Coy.

Reference your T.5.42.19 of 30 May.

1. You may wish to see the attached letter from TETI and its enclosure.

2. It is assumed that matters have been fully arranged between yourself and TETI by now for the repair of the Cables, though it is intued that the TETI letter is dated 21th June while your T.5.48.8 is dated much earlier i.e. 16th June.

H.H.SCUDDER
Lt.Col. Sigs.C.
Director

Enclosure: Letter of 21th June
and enclosure.

Declassified E.O. 12356 Section 3.3/NND No. 785015

1. You may wish to see the attached letter from TETI and its enclosure.

2. It is assumed that matters have been fully arranged between yourself and TETI by now for the repair of the Cables, though it is intued that the TETI letter is dated 21th June while your T.5.48.8 is dated much earlier i.e. 16th June.

H.H.SCUDDER
Lt.Col. Sigs.C.
Director

Enclosure: Letter of 21th June
and enclosure.

File

5607

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

Translation by C. Cagliardi.

61

Ref. No. ING. CT. aa. 21st June 1945.

Subject:- Repair of Genoa-Lucca stretch of the Ligurian-Tuscan cable.

Reference your T.64.CS of the 4th inst.

Whilst we thank you for the copy of the information received from Col. Keith, we beg to inform you that as soon as Liguria was liberated, we proceeded to ascertain, as soon as possible, the damage sustained by our inter-urban cable so as to pre-arrange the repairs, if only temporary, to be made as soon as possible.

For this purpose, so as to facilitate the work of our gangs, working on the repairs, as also to avoid greater damage (quite possible owing to eventual further infiltrations of water into the cable) various repairs have been made giving, also, metal continuity to some pairs, as it had been, in a first instance, asked of us by the Allied Command of Genoa. It is well, however, to make clear that with the above work we have not meant to make real and proper repairs, though only of temporary nature, being quite evident that these cannot be made if we have not the necessary materials. On the other hand when the repairs in question will be started they will be, without doubt, much facilitated by the fact that a check on all thetracing has already been made, the breakages have been located, and the materials that will be needed, ascertained(for which we had already made a provisional request to the Sirti of Milan).

Having set out the above, we beg to, in reply to the information favoured to us, advise as follows:-

1) - We certainly do not intend to use the cable coil of 32 quads, which is at Spezia for temporary repairs, and which would evidently mean a useless waste of material.

2) - We fully agree on the necessity of the work being carried out according to a pre-arranged plan and by competent personnel.

3) - We have no coil boxes available, and for these we addressed ourselves to the Sirti of Milan so as that they examine 5646 requirements, giving it the total length of thecable as, also,

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the number of coil boxes needed.

4) - The workmen which we have at the present are engaged on the maintenance of the cable on the Florence-Lucca-Leghorn stretch. We; therefore, fully agree on the fact that the repairs begin as mentioned at No.8.

5) - As mentioned, the work carried out by us was not for the purpose of repairing the cable, but only for giving a continuity to some pairs.

6) - As mentioned at No.1, we fully agree.

7) - Also on this we agree; naturally we could make available those units that may be requested as help to the personnel of the groups; that may also facilitate the instruction of our personnel.

8) - In accordance to what we have been advised, a first group will begin the repair of the Viareggio-Spezia stretch on the 25th inst., and a second group will be put on the Spezia-Genoa stretch on the 5th July next.

9) - We do not consider that what we have done represents a difficulty for the work to be done, but rather a facilitation, having already been located thebroken parts.

Having set out the above, we would like to meet Col. Keith before the starting of the work as at No.8 to become acquainted as to his re-construction plans and also to explain and discuss a re-construction plan prepared by us which could also guarantee the operation of long distance circuits and, at the same time, would equalize the H 177-63 and H 44-25 coil loading for the whole of the Lucca-Genoa stretch,now altered by the H 88-50 coil loading in the short Lucca-Viareggio stretch.

Società Telefonica Tirrena.

P.S. We have just received a letter dated the 13th May, through our Genoa Office, from the Telecommunications Board of Genoa, copy of which we are enclosing herewith.

The work of the Teti, now being carried out, is scrupulously following the instructions therein contained.

5665

15

SOCIETÀ TELEFONICA TIRRENA

SOCIETA PER AZIONI CON SEDE IN FIRENZE - DIREZIONE GENERALE IN ROMA

CAPITALE L. 300.000.000 INTERAMENTE VERSATO

CONCESSIONARIA DELLE RETI: LAZIO - TOSCANA - LIGURIA - SARDEGNA - STATO CITTA' DEL VATICANO

DIREZIONE GENERALE

INDIRIZZI:
POSTA: LUNGOTEVERE MARZIO, 11
CASELLA POSTALE: 1048
TELEGRAFO: "TETI,,
TELEFONO: 558

UFFICI PROV. CORRISP.
FIRENZE N. 15008
ROMA N. 20630

Spett. COMMISSIONE ALLEATA
Quartier Generale
Sottocommissione per le
Comunicazioni
ROMA

Vs. T 64 CS del 4 corr.
Ns. Ing.Ct.aa
ROMA, 21 giugno 1945

Oggetto: Lavori di riparazione cavo Ligure-Toscano tratto Genova - Lucca.

Ci riferiamo al foglio in oggetto e mentre sentitamente ringraziamo delle cortesi comunicazioni da parte dell'Egr.Sig. Col. Keith inviataci in copia, ci pregiamo segnalare che non appena liberata la Liguria ci siamo preoccupati di eseguire al più presto l'accertamento dei danni subiti dal ns. cavo interurbano onde poterne poi predisporre la riparazione sia pure provvisoria e da eseguirsi in un secondo tempo non appena possibile.

A tale scopo, sia per agevolare il lavoro delle ns. squadre adibite a tali operazioni sia per evitare maggiori danni, possibili in conseguenza di ulteriori infiltrazioni d'acqua nel cavo, sono state eseguite varie riparazioni dando anche la continuità metallica a qualche coppia, come ci era stato in un primo tempo richiesto dal Comando Alleato di Genova. E' bene però precisare che con tali lavori non abbiamo af-

Declassified E.O. 12356 Section 3.3/NND No. 785015

Comunicazioni

ROMA, 21 giugno 1945

R O M A

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Director
D/Director
Chief, Telecoms
Chief, Postal
H Q., Comm. O.
Asst Chief Postal
Censorship
Chief Clerk

Mod. 168 D.O. 5604 T.64 21 GIU 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

SOCIETÀ TELEFONICA TIRRENA
Direzione Generale

sari. D'altra parte quando le riparazioni in parola verranno iniziate esse saranno senza dubbio molto facilitate dal fatto che già è stata eseguita la ricognizione di tutto il tracciato, sono stati individuati i punti guasti ed è stato rilevato il materiale occorrente (di cui avevamo anche avanzata in via di massima richiesta di fornitura alla Spett. Sirti di Milano).

Premesso quanto sopra ci pregiamo in risposta alle segnalazioni fatteci, precisare quanto segue:

I) = Non abbiamo certo intenzione di adoperare la bobina di cavo da 32 bicoppie che trovasi a Spezia per riparazioni provvisorie, il che comporterebbe evidentemente uno sciupio inutile di materiale.

2) = Siamo perfettamente d'accordo sulla necessità che i lavori vengano condotti secondo un piano prestabilito e da maestranze competenti.

3) = Non disponiamo di alcuna cassetta Pupin e per questo ci eravamo rivolti alla Spett. Sirti di Milano perchè prendesse in esame le ns. necessità, indicando sia la lunghezza complessiva di cavo sia il numero di casse Pupin occorrenti.

4) = Le maestranze di cui attualmente disponiamo sono impegnate nella manutenzione del cavo nel tratto Firenze-Lucca-Livorno. Siamo pertanto perfettamente d'accordo sul fatto che le riparazioni vengano iniziate come detto al punto 8.

5) = Come già indicato i lavori da noi eseguiti non avevano lo scopo di riparare il cavo, ma solo quello di dare una continuità a qualche coppia.

6) = Come già detto ad I) siamo perfettamente d'accordo.

7) = Anche su questo punto siamo d'accordo: potremo naturalmente mettere a disposizione quelle unità in aiuto al personale dei gruppi che ci venissero richieste, ciò che potrà facilitare anche l'istruzione del ns. personale.

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8) = A quanto ci è stato segnalato un primo gruppo inizierà la riparazione del tratto Viareggio-Spezia il 25 corr. ed un secondo gruppo sarà adibito al tratto Spezia-Genova a partire dal 5 Luglio p.v.

9) = Non riteniamo che quanto da noi eseguito rappresenti [illegible]

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SOCIETÀ TELEFONICA TIRRENA
Direzione Generale

difficoltà per i lavori da compiersi, ma bensì una facilitazione, essendo già stati localizzati i punti guasti.

Ciò premesso, sarebbe gradito avere un colloquio coll'Egr.Sig. Col. Kieth prima dell'inizio dei lavori di cui al punto 8, per conoscere quale sia il piano di ricostruzione da lui elaborato ed anche per esporgli e discutere un piano di ricostruzione da noi preparato che potrebbe pure garantire il funzionamento dei circuiti a lunga distanza ed in pari tempo renderebbe uniforme la pupinizzazione H I77-63 e H 44-25 per tutto il tratto Lucca-Genova ora alterata dalla pupinizzazione H 88-50 nel breve tratto Lucca-Viareggio.

SOCIETÀ TELEFONICA TIRRENA
ing. Guidi

N.B. = Dalla nostra Direzione di Genova riceviamo in questo momento una lettera in data I3 Maggio I945 dell'Ufficio Telecomunicazioni del Comando Alleato di Genova che ci pregiamo rimettere in copia.

I lavori della Teti, tuttora in corso di esecuzione, seguono scrupolosamente le disposizioni

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SOCIETA' TELEFONICA TIRRENA

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MOD. 14 TCR D. G. 210 X 297 - 2000 - 9-44

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject - Reparation of Inter-urban Communications

Advanced Telecommunications Board,
GENOA
13 May 45

To: - TETI

Copy to: OC 14 L of C Signals
Telecomns NW Italy
Capt Hirst

1°. The reparation of Interurban communications in the province of LIGURIA will be divided up under the following heads:

a) TETI interurban cable MASSA-SPEZIA-GENOA-SAVONA

b) O.W. routes.

2° It is evident that the extent of damage to communications, although relatively light in this area to other parts of the country, is such that the normal employment of maintenance personnel will not be able to restore communications in order of priority. Further the present nonavailibility of the SIRTE personnel for the repair of the interurban U.H cable, lack of certain materials and transport demands special consideration.

3. Repair work must therefore be dividedd into the following stages:-

a) - The temporary provision by any means of essenti al military and civil communications. This will normally mean, in the case of U/G clables, the bridging of interruptions by means of filo volanti. With O.W. routes, the rehabiliation of one group on a route if necessari by use of "filo volanti".

b) - The semi permanent repair of communications. With U/G clables the interruptions will have to be bridged by means of a cable of perhaps not the same type as that normal used eg. a twin type cable being used on a quad clable route.

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Telecomms NW Italy
Capt Hirst

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c) - The permanent repair.

As the repair of the TETI interurban clable MASSA - SPEZIA - GENOVA - SAVONA is of high priority a scheme should be prepared as to how stages (a) and (b) of para 4 above should be carried out stage (b) being put in motion at the earliest possible moment. Such scheme should ashow inter alia the following points:

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a) The work to be carried out (damage only)

b) The materials required specifying those only which are NOT available immediately from company resources.

c) The labour which may have to be diverted from other jobs to carry out the work.

d) Transport which would have to be diverted from other work and the practicability of such diversion.

e) Military transport which must be suppkied where civilian transport cannot be obtained through Allied Military Government ,

The number of quads to be repaired for stage 2 would be.

5. The repair of the TETI interurban O.W. system from SAVONA to the French border. A scheme, on the same basis as that for the cable repair, should be prepared.

6. It is suggested that a meeting should be held at the TETI on Wednesday..16... May at 1400 hrs to discuss and later decide how the above mentioned work is to be carried out.

Maj R Signals
Comd

CMF
SJC

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Maj R Signals
Comd

CMF
SJC

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Declassified E.O. 12356 Section 3.3/NND No. 785015

Director
Director
Chief Telecoms
Chief Postal
H.Q. Comms O.
Asst. Chief Postal
GENERAL
Chief Clerk

No. Underground Cable Coy

TS 51/1
CROSS. 9
T.64
28 OCT 1945

Cable Maintenance Engineering Instruction No.

Cable Fault Procedure - EXTERNAL

This instruction is supplementary to Cable Maintenance Engineering Instructions Nos 1 and 3 and will give details of procedure to be followed by External Cable Maintenance Groups.

2. This instruction cancels the following, which should now be destroyed:

Cable Maintenance Engineering Instruction Nº 2
Appendices A and B to C.M.E.I Nº 2
Amendments Nºs 1, 2 and 3 to C.M.E.I. Nº 2
Appendix A to C.M.E.I. Nº 5
Cable Maintenance Engineering Instructions Nº 5, 6, 7, & 8.

3. This instruction will cover the whole Italian State cable network and the TIMO and TETI long-distance cable networks.

INTENTION

4. To standardise the procedure to be adopted by External Maintenance Groups and to effect closer liaison between these Groups and Repeater Station Maintenance Staffs.

METHOD

5. (i) Location of Groups, Division of Responsibility, Method of Contact and Parent Faults Controls.

See Appendix 'A'.

(ii) Patrols

Each Group will have included in the personnel, Cable Hands capable of spotting any damage to the road surface or work being carried out on the roads which would be liable to cause damage to the cable. These Cable Hands will be on constant patrol over the Section of the cable route, the maintenance of which is the responsibility of their Group.

Patrols will report their positions and state of the cable route, by telephone or in person, to the Technico in charge of their Group at every available opportunity. Any irregularities found by patrols and beyond their powers to rectify will be reported immediately to the Technico in charge who will take action as necessary. If the trouble necessitates the Technico in charge leaving his HQ he will inform the Fault Control and/or the Repeater Station staffs as to his location during his absence and if possible the

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Appendix A to C.M.E.I. Nº 5
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(iii) Reporting of Faults

When a fault is reported to a Maintenance Group, the Technico in charge will collect all available information as to nature of fault, results of localisation measurements etc, and inform the Fault Control or Repeater Station staff reporting the fault as to what action he is about to take. It will be the responsibility of Fault Control or Repeater Station Staffs to report the occurrence of faults on the Main Cable to Technical Office, Nº 1 Underground Cable Company, Royal Signals.

In the event of a complete cable failure arrangements have been made by CSO L of C Italy for the dispatch by Fault Control to the location of the fault, an officer or Senior NCO who, in consultation with the SIRTI Technico in charge will decide whether it is necessary to call on the aid of L of C Line Sections maintaining the main O/H arteries for labour, heavy transport etc.

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5.(iv) Maintenance of Contact during Clearance of Fault

Upon arrival at the approximate location of a fault, the Technics in charge of the Group will, as soon as possible, establish telephonic communication with the Repeater Stations at the extremities of the Repeater Section in which the fault has occurred. This contact will, whenever possible, be established by using a good cable pair. Should the establishment of communication on a cable pair be impossible owing to the existence of the fault, arrangements have been made by CSO L of C Italy for Underground Cable Maintenance Parties to make use of the O/H engineering circuit. For this purpose the O/H engineering circuit is being led into Repeater Stations where the O/H route and Repeater Stations are adjacent. Cable Maintenance Parties will also make use of the manned Test Points for reporting purposes. Arrangements are also being made by CSO L of C Italy to bring the O/H engineering circuit on to terminals at the foot of the pole where the O/H route leaves the cable route, so that it is available to the Cable Maintenance Parties. It must be remembered that if the O/H engineering circuit is in use due to the existence of a fault on the O/H, then its use on the clearance of the O/H fault will take priority.

Should it be impracticable to use either of the preceding methods of communication, contact with Repeater Stations will be made and maintained by the motor cyclist of the SIRTI Maintenance Party.

Appendix 'B' gives the location of Repeater Stations and manned test points where the O/H engineering circuit is terminated, and the locations of points where the O/H engineering circuit has been brought on to terminals at the foot of a pole. FAULT CONTROL and REPEATER STATION STAFFS IN WHOSE SECTION OF THE CABLE A FAULT OCCURS, MUST AT ALL TIMES BE KEPT INFORMED AS TO THE ACTION BEING TAKEN AND PROGRESS BEING MADE BY THE EXTERNAL MAINTENANCE GROUP IN THE CLEARANCE OF A FAULT.

(v) Reporting of Clearance of Faults

When work on the clearance of the fault has been completed and necessary through tests on the cable carried out, the Technics in charge of the External Maintenance Group will report the Cable Clear to the Fault Control or Repeater Station from where the existence of the fault was originally reported. It will again be the responsibility of Fault Control or Repeater Station staffs to report the clearance of the fault to Technical Office, N° 1 Underground Cable Company, R.Signals.

A written report, for record purposes, giving details as under will be forwarded to Cable Officer, N° 1 Underground Cable Company, R.Signals by the Technics in charge:-

(a) Repeater Section :

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A written report, for record purposes, giving details as under will be forwarded to Cable Officer, N° 1 Underground Cable Company, R.Signals by the Technico in charge:-

(a) Repeater Section :
(b) Time and Date
Fault Reported :
(c) Reported by :
(d) Nature of Fault :
(e) Action Taken :
(f) Cause of Fault :
(g) Time & Date Cleared :
(h) Clear Reported to :
(i) Additional Details :

Signed: . . . . . .

Technico i/c Mtce Group: . . .(Place). . . .

Date: . . . . . .

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MAJOR BREAKDOWNS

6. (i) This paragraph will deal with procedure to be adopted in the case of a major breakdown causing more work than can be undertaken by one External Maintenance Group

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6.(ii) If and when, on inspection, the Technico in charge of a Maintenance Group decides that a fault is of such magnitude that his own group cannot cope with it, he will immediately contact Lt Col KEITH, Major OGDEN or Capt BURNS, N° 1 Underground Cable Company, R.Signals, for permission to call for assistance from the next group to the North. On receiving such permission he will contact the Technico in charge of the next group to the North and state whether he requires the assistance of all or part of the northern group. The northern group will immediately dispatch the assistance asked for, the Technico in charge of the group informing his Fault Control and/or the nearest Repeater Station staffs that he is proceeding to the assistance of the next group. He will also inform the next group to the NORTH that he is leaving his area and that the section of the cable route for which he is normally responwill then become their responsibility.

(iii) Technical Supervision

When a group is working together with another group out of its own area, the technical direction and supervision will at all times remain the responsibility of the Technico in charge of the Section of the cable where the fault occurs.

(iv) Civil Engineering Work

Work on suspension systems etc which due to lack of equipment or any other considerations, cannot be undertaken by one Maintenance Group, or two groups working together, will be reported immediately by the Technico in charge of the Maintenance Group to the Technical Office, N° 1 Underground Cable Company, R.Signals giving details of work involved, location of work, approximate estimate of stores required. Arrangements will then be made at once for the provision of personnel, equipment and stores to carry out the work.

Should damage to a suspension system involving civil engineering work beyond the scope of the Maintenance Group cause a fault on the cable, every effort will be made by the Maintenance Group to make temporary repairs to the cable by laying interruption lengths etc. When such temporary repairs involve laying cable in exposed positions all possible precautions will be taken to safeguard the cable. The cable will be changed back to its permenant position as soon as is practicable.

MULTIPLE FAULTS

7. (i) This para will deal with the procedure to be adopted should

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Should damage to a suspension system involving civil engineering work beyond the scope of the Maintenance Group cause a fault on the cable, every effort will be made by the Maintenance Group to make temporary repairs to the cable by laying interruption lengths etc. When such temporary repairs involve laying cable in exposed positions all possible precautions will be taken to safeguard the cable. The cable will be changed back to its permenent position as soon as is practicable.

MULTIPLE FAULTS

7. (i) This para will deal with the procedure to be adopted should two or more faults occur at the same time in the same maintenance section but NOT in the same Repeater Section of the cable. Two or more faults on the same Repeater Section will be dealt with by the normal maintenance group, as two groups working on the same Repeater section is generally found to lead to confusion and delay.

(ii) The occurrence of a second or subsequent fault on the same Maintenance Section of the cable will normally be reported to the Technico in charge of that section of the cable as laid down in para 5(iii) of this instruction. He will decide whether he can deal with the fault without undue delay or whether it should be reported to the next group to the North. Should he decide that he cannot deal without undue delay, he will ask for assistence as laid down in para 6(ii) of this instruction, the procedure then being as laid down in para 6(ii and iii) He will pass on all information obtained from the reporting party to the Technico in charge of the Northern Group.

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7.(iii) If the Technico in charge of the section of the cable is not available owing to the fact that he is already working on the first fault and is temporarily out of contact with Fault Control, Fault Control will immediately advise Lt Col KEITH, Major OGDEN or Capt BURNS of No 1 Underground Cable Company, R.Signals, who will decide what action should be taken. Normally procedure similar to that detailed in para 6(ii) will be adopted.

(iv) Should the Technico in charge Maintenance Section finish work on the fault before work on the second fault has been completed he will immediately take over all work and release the NORTHERN group to return to their HQ.

(v) Clearance of faults will be reported as laid down in para 5(v) of this Instruction, by the Technico completing the work. Written reports to be asked for in para 5(v) will also be prepared and submitted by the Technicos who completed the work on each of the seperate faults.

8. Appendix 'C' gives list of telephone numbers.

(BS BURNS) Capt R.Signals
Cable Officer
For Lt Col G. Keith, R.Signals

23 June 45

BSB:rlH

Distribution:

Information

CSC L of C Italy (Main)	4
" " " (Advance)	2
Director, Communications Sub Commission HQ A.C.	1
CSO Eighth Army	1
Sig Offr Eighth Army	1
Sig Offr Peninsular Base Section	2
CSO No 1 District	1
CSO No 2 District	1
CSO No 3 District	1
OC Fault Control BARI	1
" " " NAPLES	1
" " " ROME	1
" " " FIORENZUOLA	1
" " " BOLOGNA	1

Action

Cable Officer	2
Transmission Officer	1
C.E. SIRTI Milan (For translation & distribution to all SIRTI Maintenance Gps)	2
C.E. SIRTI Rome (For translation & distribution to all SIRTI Maintenance Gps)	2
Azienda di Stato, Rome	2
Director TETI, Rome (For translation & issue to Maintenance Group LUCCA)	1
Director, TIMO, Parma (For translation & issue to Maintenance Group RIMINI)	1
NCO i/c Maint Group LUCCA	1
" " " " RIMINI	1

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the Technicians who completed the work on each of the separate faults.

6. Appendix 'C' gives list of telephone numbers.

23 June 45

(BS BURNS) Capt R.Signals
Cable Officer
for Lt Col GA Keith, R.Signals

BSB:rlN

Distribution:

Information

CSO L of C Italy (Main)	4
" " " (Advance)	2
Director, Communications Sub Commission HQ A.C.	1
CSO Eighth Army	1
Sig Offr Fifth Army	1
Sig Offr Peninsular Base Section	2
CSO No 1 District	1
CSO No 2 District	1
CSO No 3 District	1
OC Fault Control BARI	1
" " " NAPLES	1
" " " ROME	1
" " " FLORENCE	1
" " " BOLOGNA	1
" " " ANCONA	1
Lt Col GA Keith, R.Signals	1
OC No 1 Underground Cable Coy	1
OC No 62 Group	1
" " 100 "	1
" " 154 "	1
" " 157 T.E. Section	1
OC Maintenance Control PADUA	1
" " " MILAN	1
" " " FORLI	1
" " " UDINE	1
War Diary Files TS 51/1, TS 57/1	2

Action

Cable Officer	2
Transmission Officer	1
C.E. SIRTI Milan (For translation & distribution to all SIRTI Maintenance Gps)	2
C.E. SIRTI Rome (For translation & distribution to all SIRTI Maintenance Gps)	2
Azienda di Stato, Rome	2
Director TMTI, Rome (For translation & issue to Maintenance Group LUCCA)	1
Director, TIMO, Parma (For translation & issue to Maintenance Group RIMINI)	1
NCO i/c Maint Group LUCCA	1
" " " " RIMINI	1
Ing FARINELLO, Azienda di Stato	1

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Appendix 'A'

Cable Maintenance Engineering Instruction N° 9

Locations of Groups, Division of Responsibility, Method of Contact, Parent Fault Controls

N°:	Cable Sections	Location of Maintenance Gp	Technico in Charge	Method of Contact	Parent Fault Controls
1.	All State Cable Network Sicily	Catania	Sig Domiano	Via Catania Reptr Statn	Naples
2.	Atena - Reggio - Calabria	Cosenza	Sig Grimaldi	Cosenza Reptr Statn	Naples
3.	Atena - Bari	Potenza	Sig Capella	Potenza Reptr Statn	Bari (excluding Atena)
4.	Atena - NAPLES - Mignano	Caserta (NAPLES)	Sig Accornero or Sig Grassi	NAPLES Rptr Stn	Naples
5.	Mignano - ROME - Viterbo	ROME	Ing Garofoli Sig Popolla	ROME 43161) 41267) Day 630945 Night	(excluding Mignano)
6.	Viterbo - Siena - Florence	Siena	Sig Giudicelli	Siena Reptr Statn	Florence (excluding Viterbo)
7.	Florence - Bologna Radicosa - Bologna Bologna - Rimini Bologna - Poggio Renatico (Padua Cable)	Bologna	Ing Greco	Bologna Repeater Station	Florence Bologna
8.	S.Secondo - Casteggio Casteggio - R. Po Casteggio - S.Giuliano	Casteggio	Ing Pauletti	Via Casteggio Cable Termination	Bologna
9.	S.Giuliano - Genoa S.Giuliano - Turin Turin - Modane	Alessandria	Sig Ghezzi	S.Giuliano Repeater Station	Bologna
10.	Milan - R. Po Milan - Chiasso	Milan	Sig Silva	Milan Repeater St	Bologna
11.	Bologna - Verona - Ala	See Note 1.			Bologna
12.	Ala - Trento - Brennero	See Note 1			Bologna

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6.	Viterbo - Siena - Florence	Siena	Sig Giudicelli	Siena Repeater Station	Bologna
7.	Florence - Radicosa - Bologna - Bologna (Milano Cable) Bologna - Poggio Renatico (Padua Cable)	Bologna	Ing Greco	Bologna Repeater Station	Bologna
8.	S.Secondo - Casteggio Casteggio - R. Po Casteggio - S.Giuliano	Casteggio	Ing Paoletti	Casteggio Cable Termination	Bologna
9.	S.Giuliano - Genoa S.Giuliano - Turin Turin - Modano	Alessandria	Sig Ghezzi	S.Giuliano Repeater Station	Bologna
10.	Milan - R. Po Milan - Chiasso	Milan	Sig Silva	Milan Repeater Station	Bologna
11.	Bologna - Verona - Ala	See Note 1.			
12.	Ala - Trento - Brennero	See Note 1			
13.	Poggio Renatico - Padua - Udine	Noventa	Sig Galletti	S.Dona (Noventa) Reptr Stn	Bologna
14.	Udine - Tarvisio - Austrian Border Udine - Trieste	Udine	Sig Butazoni	Udine Repeater Station	Bologna
	TETI Cables				
15.	Leghorn - Lucca Lucca - Florence Lucca - Viareggio	Lucca	Sig Valgimigli or Calistri	Lucca Repeater Station	Florence
16.	Lucca - Spezia - Chiavari - Genoa	See Note 2			
	TIMO Cables				
17.	Ancona - Rimini Rimini - Bologna	Rimini	Ing Montanari	Rimini Repeater Station	Bologna Udine Ancona

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NOTES:

1. The maintenance of Bologna - Brenner cable will be controlled from Technical Office, N° 1 Underground Cable Coy, R.Signals until such time as all faults left by the German Underground Cable in have been cleared. Locations and Method of contacting groups 11 and 12 (Groups to be responsible for Bologna - Verona - Ala and Ala - Trento - Brennero sections of the cable respectively) will be issued later.

2. Group N° 15 will be formed on completion of repairs on the Lucca - Spezia - Chiavari - Genoa cable when they will take over the whole route from Lucca to Genoa. Until this time, however, Group N° 15 will remain responsible for the maintenance of the Lucca - Viareggio section of this cable.

Appendix 'B'

Cable Maintenance Engineering Instruction No 9

Locations of points where O/H Engineering Circuit will be available for use by Underground Cable Maintenance Groups.

1. Repeater Station

BARI	(Fault Control)
CRAVINA	Repeater Station
POTENZA	" "
ATENA	" "
SALERNO	" "
NAPLES	(Fault Control)
MIGNANO	Repeater Station
FERENTINO	" "
ROME	(Fault Control)
VITERBO	Repeater Station
SIENA	" "
FLORENCE	(Fault Control)
BOLOGNA	" "
MILAN	(Maintenance Control)
PADUA	" "
FORLI	" "
ANCONA	(Fault Control)

2. Manned Test Points

ALTAMURA
IRSINA
TOLVE
TITO
EBOLI
NOCERA
POMPEI
CAPUA
CEPRANO
VILLAMONTONE
Mile 10 (Route 6)
LA STORTA
BRACCIANO
ACQUAPENDENTE
S.QUIRICO D'ORCIA

3. Unmanned Test Points (Terminal Poles)

(a) MYNANO - FERENTINO Repeater Section

Pole No 1180 South of Cassino on Route 6

(b) FERENTINO - ROME Repeater Section

Pole No 1520 13.5 Kms North of Ferentino

(c) VITERBO - ABBADIA S.S. Repeater Section

Steel Trellis Pole ½ mile South of Montefiascone
Pole at POD POLACCO Road Junction
Pole No 579-3013 Pod Rigo Junction of Routes 2 & 2.8

(d) ABBADIA S.S. - SIENA Repeater Section

Pole 398-13 Approx 6.5 Kms South of S.Quirico D'Orcia Junction of Routes 2 and 248
Pole at Bagno - Vignone Road Junction

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FLORENCE	(Fault Control)	
BOLOGNA	" "	BRACCIANO
MILAN	(Maintenance Control)	ACQUAPENDENTE
PADUA	" "	S.QUIRICO D'ORCIA
FORLI	" "	
ANCONA	(Fault Control)	

3. Unmanned Test Points (Terminal Poles)

(a) MYNANC - FERENTINO Repeater Section

Pole No 1160 South of Cassino on Route 6

(b) FERENTINO - ROME Repeater Section

Pole No 1520 15.5 Kms North of Ferentino

(c) VITERBO - ABBADIA S.S. Repeater Section

Steel Trellis Pole ½ mile South of Monterinscone
Pole at POD POLAGGO Road Junction
Pole No 579-3013 Pod Ridge Junction of Routes 2 & 248

(d) ABBADIA S.S. - SIENA Repeater Section

Pole 398-13 Approx 6.5 Kms South of S.Quirico D'Orcia
Junction of Routes 2 and 248
Pole at Bagno - Vignona Road Junction

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Declassified E.O. 12356 Section 3.3/NND No. 785015

Appendix 'C'

Cable Maintenance Engineering Instruction N° 9

Telephone Numbers

	Day		Night
Lt Col G.A. Keith, R.Signals		ROME	
	43161		
	41267		478818
		MILAN	
	67443		66383
S.I.R.T.I. Offices: ROME		ROME	
	43161		--
	41267	MILAN	
MILAN	67138		
	69616		--

N° 1 Underground Cable Coy, R.Signals (CAVO Exchange)

O.C.	: Major [illegible]	R.Signals	Vicksburg 429
Admin Officer:	Lieut [illegible]	"	
T.M.O.	: Lt(SHO) [illegible]	"	

Technical Office, N° 1 Underground Cable Coy

Transmission Officer:	Major R.S.I OGDEN	R.Signals
Cable Officer	: Capt B.S. BURNS	"
Asst Cable Officer	: Lieut J.L. McILVRIDE	"
Records Officer	: Lieut J.C. WALL	"

Day only

BOLOGNA Long Distance Ext 9.

Day & Night

Vicksburg 134
via CAVO Exchange
via BOLOGNA Repeater Stn

Technical Stores Officer:

Lieut W.H. SHEPHERD R.Signals CAVO (Rear)
via FLORENCE L.D. & VILLANOVA

Declassified E.O. 12356 Section 3.3/NND No. 785015

41267 MILAN

MILAN 67158
59616 --

N° 1 Underground Cable Coy, R.Signals (CAVO Exchange)

O.C. : Major [illegible] R.Signals)
Admin Officer: Lieut [illegible] " } Vicksburg 429
T.M.O. : Lt(RHO) [illegible] ")

Technical Office, N° 1 Underground Cable Coy

Transmission Officer: Major R.S.I OGDEN R.Signals
Cable Officer : Capt B.S. BURNS "
Asst Cable Officer : Lieut J.L. McILVRIDE "
Records Officer : Lieut J.C. WALL "

Day only

BOLOGNA Long Distance Ext 9.

Day & Night

Vicksburg 134
via CAVO Exchange
via BOLOGNA Repeater Stn

Technical Stores Officer:

Lieut W.H. SHEPHERD R.Signals CAVO (Rear)
via FLORENCE L.D. & VILLANOVA

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Declassified E.O. 12356 Section 3.3/NND No. 785015

13

Subject: Provision of three additional 12-wire circuits ROME - FIORENZE for the Italian Government.

To: 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 48/2
23 June 45

CSO L of C Italy (Main)

Reference the attached letter to Chief Engineer, SITFI, Rome.

1. You T.O.O.s be issued, please, to carry out the following work:-

(a) Divert the ITET (Civil) circuit ROME - VITERBO from pair 19 of phantom 19/20.

(b) Divert Post Office circuits on the ROME - FIORENZE cable to pairs 19, 20 of phantom 19/20, as necessary, in order to clear pairs 15 and 16 ROME to FLORENCE.

(c) Set up circuit as follows:-

ROME - FIORENZE	62	Pair	15
" - "	63	"	16
" - "	64	Phantom	15/16

2. Repeaters are to be used at VITERBO and SIENA, with 500/20 signalling units at ROME and FIORENZE Repeater Stations.

3. It is hoped that the necessary material will be made available to the Allied Commission at VITERBO and SIENA Repeater Stations within the next two weeks.

(R.T. Jones) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

REFERENCE

Copies to:

Inspector, Communications Sub Commission, AC of C, Rome
Lt Col GA Keith

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(b) Direct local speaker circuits in the ROME - FLORENCE cable to pairs 19, 20 and Phantom 1-/20 as necessary, in order to clear pairs 15 and 16 ROME to FLORENCE.

(c) Set up circuits as follows:-

ROME - FLORENCE 62 Pair 15
" " 63 " 16
" " 64 Phantom 15/16

3. Repeaters are to be used at VITERBO and SIENA, with 300/20 Signalling Units at ROME and FLORENCE Repeater Stations.

2. It is hoped that the necessary material will be made available to the Ambenda di State at VITERBO and SIENA Repeater Stations within the next two weeks.

(RSI Genie) Major R.Signals
Transmission Officer
for Lt Col G Kahrs, R.Signals

RSI:rlH

Copies to:

Director, Communications Sub Commission, H.Q.C., Rome
Lt Col G. Kahrs
Chief Engineer, SIPTI, Rome
Ing DEL MONTE, SIPTI
Ambenda di Stato per i Servizi Telefonici, Rome
Ing MARIELLO, c/o ROME Fault Control
CO Fault Control, ROME

Director	
D/Director	
Chief Telecoms	
Chief Postal	
H Q Coms O	
Asst Chief Posts	
Censorship	
Chief Clerk.	

C.S.S. Regs	
Rec'd 1.64	B/fwd.

27 OCT 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Subject: Provision of Additional 2-wire Circuits, ROMA - FIRENZE

Technical Office,
N° 1 Underground Cable Coy
Tel: Vicksburg 134

Ref: TS 48/2

23 June 45

To:
Chief Engineer, S.I.R.T.I. Rome

1. By the diversion of certain local and service circuits it is now possible to provide three additional 2-wire Repeatered circuits between ROMA and FIRENZE on pairs 15/16 (1.3mm H 177/63). The Azienda di Stato wish therefore to equip some additional existing 2-wire Repeaters at VITERBO and SIENA Repeater Stations with Line Coils and Artificial Lines.

2. It is also desirable at the same time to equip 3 spare repeaters (two "side" and one "phantom") as a reserve for use in cases of faults on the 2-wire Repeaters in service.

3. It is requested that the following equipment be made available at this Office by Ing DEL NEGRO from stocks held at BOLOGNA & VERONA:-

For SIENA R.S. Artificial Lines, Line Coils and Valves for 6 2-wire Repeaters, (4 "Side" & 2 "Phantom" circuits 1.3mm H 177/63)

For VITERBO R.S. Artificial Lines, Line Coils & Valves for 6 2-wire Repeaters (4 "Side" & 2 "Phantom" circuits 1.3mm H 177/63)

4. The transport of the material to SIENA and VITERBO will be arranged by this office.

5. The installation of the apparatus, testing out and lining up of circuits will be carried out by the AZIENDA di STATO (Ing FARIELLO). Overall 500/20 signalling will be used.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSI:mlg

Copies to:
Director, Communications Sub Commission, HA A.C., Rome
Lt Col GA Keith

Declassified E.O. 12356 Section 3.3/NND No. 785015

cases of faults on the 2-wire Repeaters in SIENA

3. It is requested that the following equipment be made available at this Office by Ing DEL NEGRO from stocks held at BOLOGNA & VERONA:-

For SIENA R.S. Artificial Lines, Line Coils and Valves for 6 2-wire Repeaters. (4 "Side" & 2 "Phantom" circuits 1.5mm H 177/53)

For VITERBO R.S. Artificial Lines, Line Coils & Valves for 6 2-wire Repeaters (4 "Side" & 2 "Phantom" circuits 1.5mm H 177/53)

4. The transport of the material to SIENA and VITERBO will be arranged by this office.

5. The installation of the apparatus, testing out and lining up of circuits will be carried out by the AZIENDA di STATO (Ing FARIELLO). Overall 500/20 signalling will be used.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:mlN

Copies to:
Director, Communications Sub Commission, HQ A.C., Roma
Lt Col GA Keith
Ing DEL NEGRO
Azienda di Stato per i Servizi Telefonici, Roma
Ing FARIELLO, c/o Fault Control ROME
OC Fault Control ROME

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D/Director
Chief Telecoms
Chief Postal
H Q Coms. O.
Asst Chief Postal
Censorship
Chief Clerk

CROSS REF
FILE T.64 3/Fw.

Subject: Italian State Underground Cable.
North West Italy.

RDM

No 1 Underground Cable Coy. R.E. 29 C.U. 1945

Tel: Vicksburg 134

Ref: TS 42/21

22 June 45

12

To:
Distribution

1. Herewith copies of Cable Pair Layout diagrams for the following cables, showing the availability of pairs after repair by this Company.

FLORENCE - BOLOGNA
BOLOGNA - CASTEGGIO
BOLOGNA - PADUA - UDINE - VILLACH

2. The diagram relating to the ANCONA - BOLOGNA Cable has already been issued separately.

3. Diagrams of the remaining cables will be issued as the repairs are completed.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Distribution:

CSO L of C Italy (Main)	2
" " " (Advance)	1
CSO No 1 District	2
" " 2 "	2
" 3 "	2
Director, Communications Sub Commission, HQ AC	2
OC Fault Control ROME	1
" " " FLORENCE	1
" " " BOLOGNA	1
OC Maintenance Control PADUA	1
" " " UDINE	1
" " " MILAN	1
FLORENCE Repeater Station	2)
BOLOGNA " "	2) One for
PADUA " "	2) Record

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3. Diagrams of the [illegible] will be issued as the repairs are completed.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Distribution:

CSO L of C Italy (Main)		2
" " " (Advance)		1
CSO N° 1 District		2
" " 2 "		2
" 3 "		2
Director, Communications Sub Commission, HQ AC		2
OC Fault Control	ROME	1
" " "	FLORENCE	1
" " "	BOLOGNA	1
OC Maintenance Control	PADUA	1
" " "	UDINE	1
" " "	MILAN	1
FLORENCE Repeater Station		2)
BOLOGNA " "		2) One for
PADUA " "		2) State Dirigenti
UDINE " "		2)
PLEZZO " "		2)
Telecommunications Officer, AC/AMG	BOLOGNA	1
" " "	PADUA	1
" " "	MILAN	1
Lt Col GA Keith, R.Signals		1
Mr Jacobs, SIRTI Milan		1
Chief Engineer, SIRTI Roma		2
" " " Milano		2
Ing DEL NEGRO		1
" GRECO		1
" DANI c/o PADUA Repeater Station		1
Azienda di Stato	ROME	1
Ing FARINAC (Via Roma Fault Control)		1
Cable Officer 1. Transmission Officer		1
TS 42/21 TS 49		

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Declassified E.O. 12356 Section 3.3/NND No. 785015

BEST COPY POSSIBLE

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF FAIR FLORENCE - BOLOGNA MAIN STA

AFTER REPAIR MAY 1945



Notes
1. Quad 0.9mm Cable used for repairs. Pairs 1-4 are routed via the radio qu
therefore at 1.3mm Gauge throughout
2. Approximate attenuation of pairs is 0.8mm/144Ω 0.5db/mile
1.3mm/177Ω 0.25db/mile
3. Type of original cable is 1.3mm Quads
4. Pairs 30 32 102 are routed in the first 15 Quad Cable
" 28 29 " " " second " "
1 P.U.P. per 11 use at each loading point for all Quads

DRA No 7S/C 69
15 Mar 45
[illegible]

Declassified E.O. 12356 Section 3.3/NND No. 785015

F FAIR FLORENCE - BOLOGNA MAIN STATE CABLE

AFTER REPAIR MAY 1945



sed for repairs. Pairs 1-4 are routed via the radio quads of these two cables and are
therefore at 13mile Gauge throughout.
pairs is 0.9mm/44lbs 0.5 ohms/mile
1.3mm/19lbs 0.15 ohms/mile

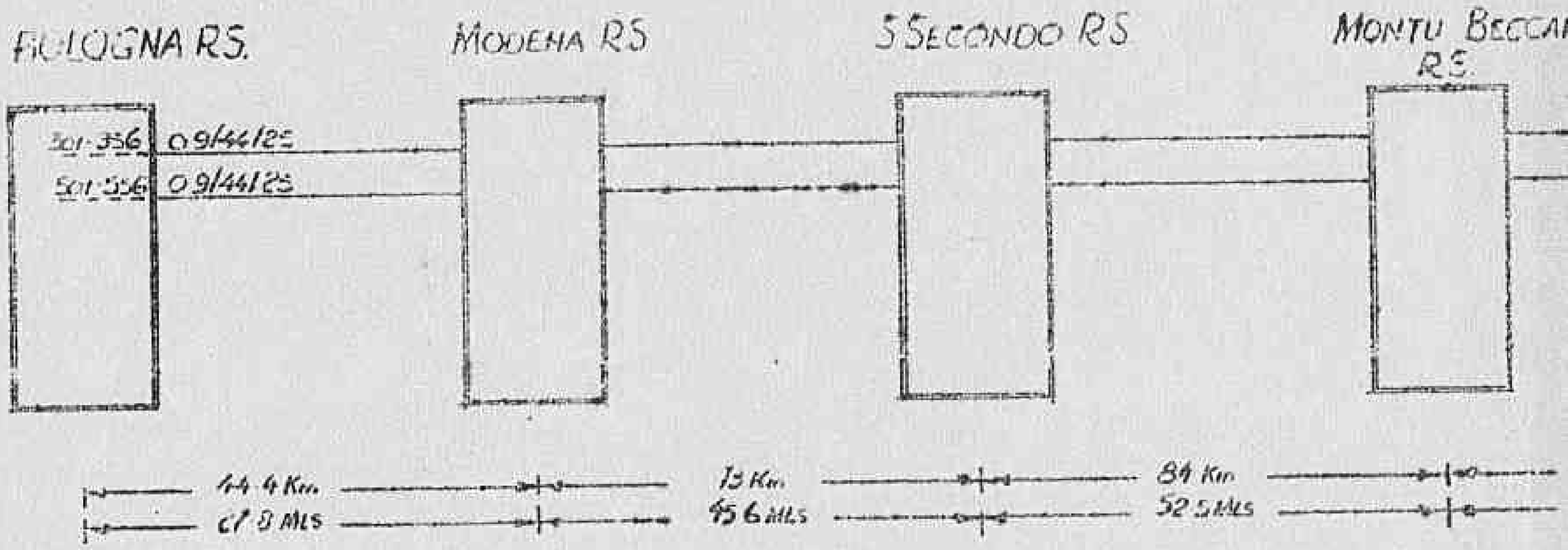
s Quads.

routed in the first is Quad Cable
" " second "
loading point for all Quads

Transmission Officer
No 1 U/G Cable Company
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS BOLOGNA - CASTEGGIO MAIN
AFTER REPAIR MAY-JUNE 1945



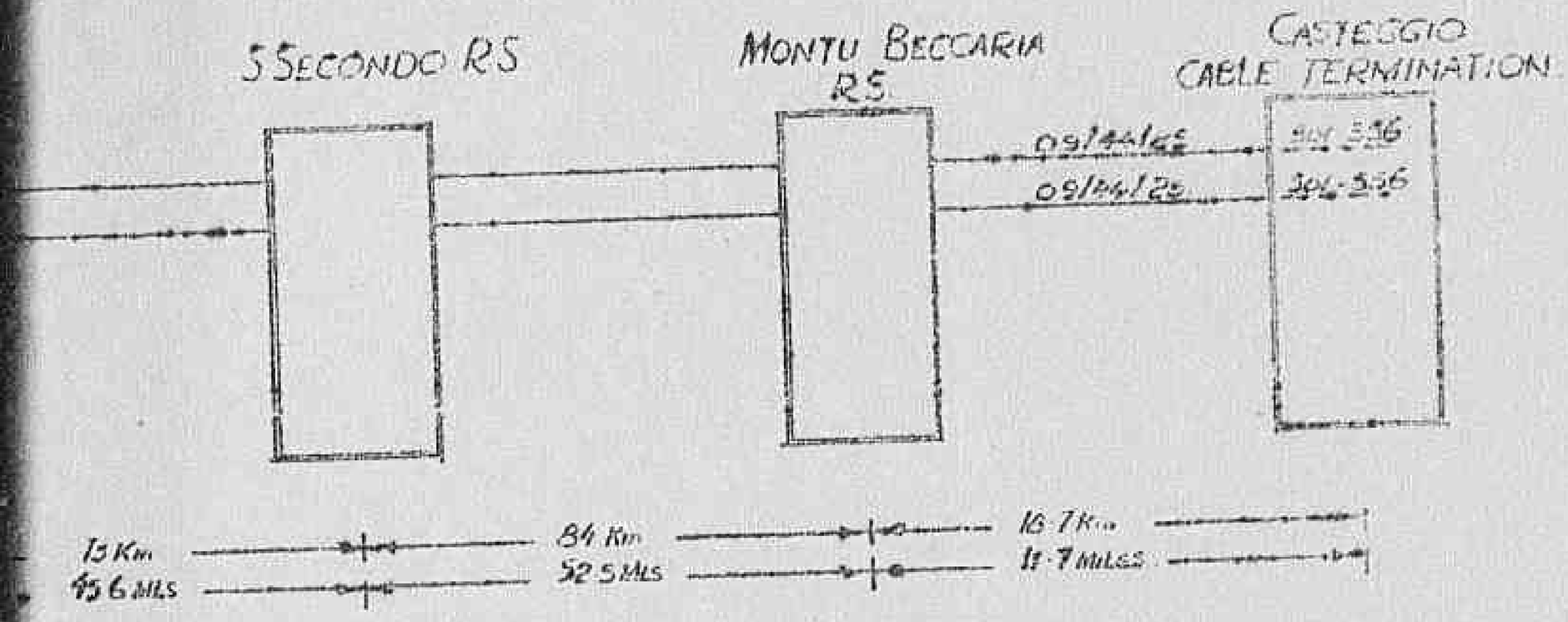
NOTES -

1. 2x28 Quad 0.8mm Cable used for repairs
2. The temporary Cable terminations at S SECONDO. & MONTU BECCARIA Repeater Stations — pairs 301-340 & 501 540
3. Approximate attenuation of pairs 0.5 db/mile
4. Size of original cable 112 Quads
5. Pairs 501-556 are routed in the first 28 Quad cable & first LP
   " 301-556 " " " " Second " " Second LP
   i.e 2 LPs used at each Loading Point

DWG No TBC 70
13 Mar 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

OF PAIRS BOLOGNA - CASTEGGIO MAIN STATE CABLE
AFTER REPAIR MAY-JUNE 1945



used for repairs

nations at S SECONDO. & MONTU BECCARIA Repeater Stations cater for 40 quads only —
— pairs 301-340 & 501 540

of pairs 0.5 db/mile

2 Quads

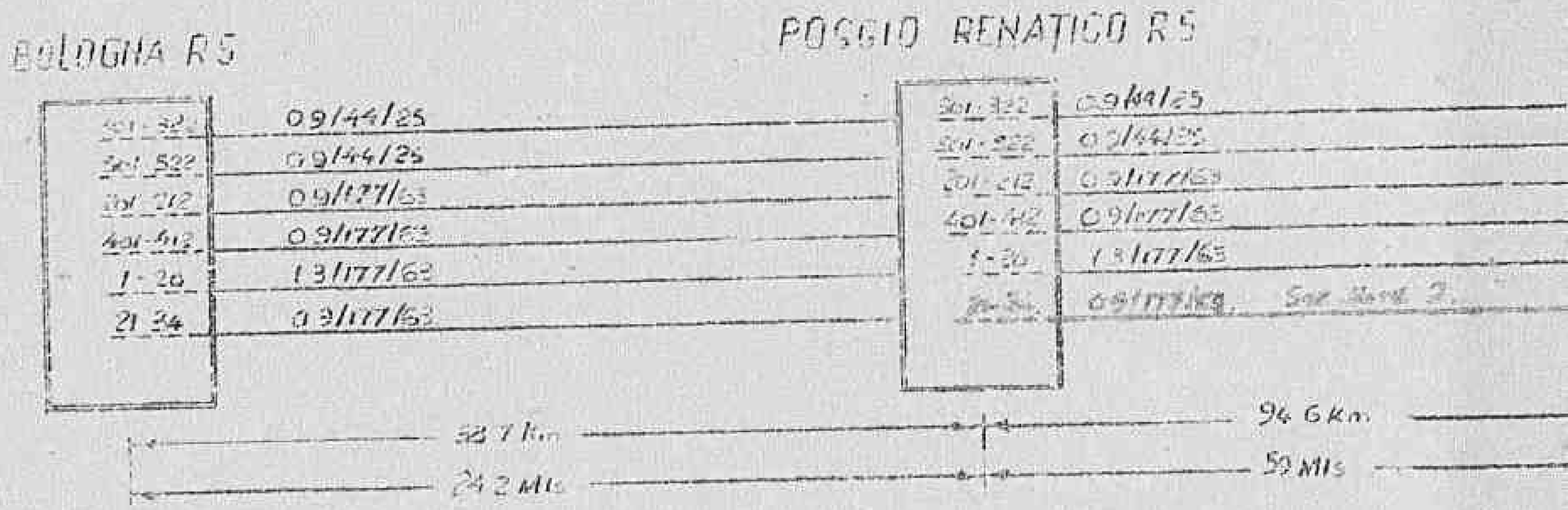
in the first 28 Quad cable & first L P
" " Second " " Second L P
each Loading Point

Transmission Officer
No 1 L/G CABLE COMPANY.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS BOLOGNA-PADUA MAIN STATE CA

AFTER REPAIR MAY-JUNE 1945



Notes. (1) 2x28 Quad 0.9mm cables used for repairs.

(2) These quads are partially loaded, as the replacement loading pots at points where destroyed contain only 22 Quads 177/63.

(3) Approximate attenuation of pairs :- 0.9mm 11 44/25 0.5 db/mile.
0.9mm 11 177/63 0.28 db/mile
1.3mm H 177/63 0.155 db/mile.

(4) Size of original cable 51 Quads

(5) Pairs 401-412. 501-522. 1-20 (27 Quads) are routed via the first 28 Quad Cabl
" 201-212. 301-322 21-34 (24 Quads) " " " " second " "

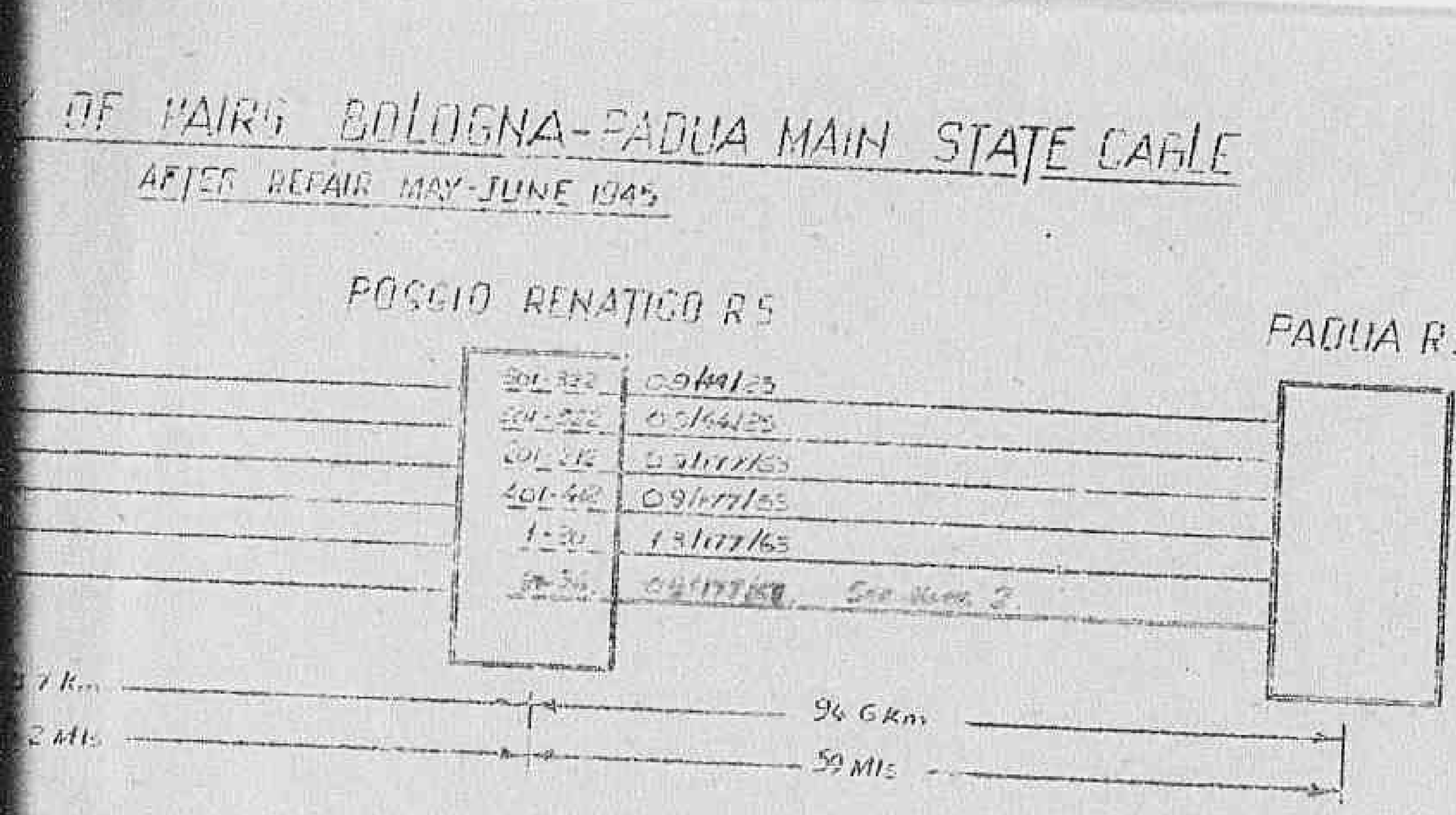
(6) BOLOGNA - POGGIO 2 Replacement LPs used Pot 1 301-322. 501-522
POGGIO - PADUA All pairs in one L.P

Dive No TSC 71.
17 MAY 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

OF PAIRS BOLOGNA-PADUA MAIN STATE CABLE

AFTER REPAIR MAY-JUNE 1945



mm cables used for repairs.

partially loaded. as the replacement loading pots at points where the original pot was only 22 Quads 177/63.

ication of pairs :- 0.9mm H44/25 0.5 db/mile.
0.9mm H177/63 0.28 db/mile
1.3mm H177/63 0.155 db/mile

cable 51 Quads

501-522 1 20 (27 Quads) are routed via the first 28 Quad Cable.
301-322 21-34 (24 Quads) " " " " second " "

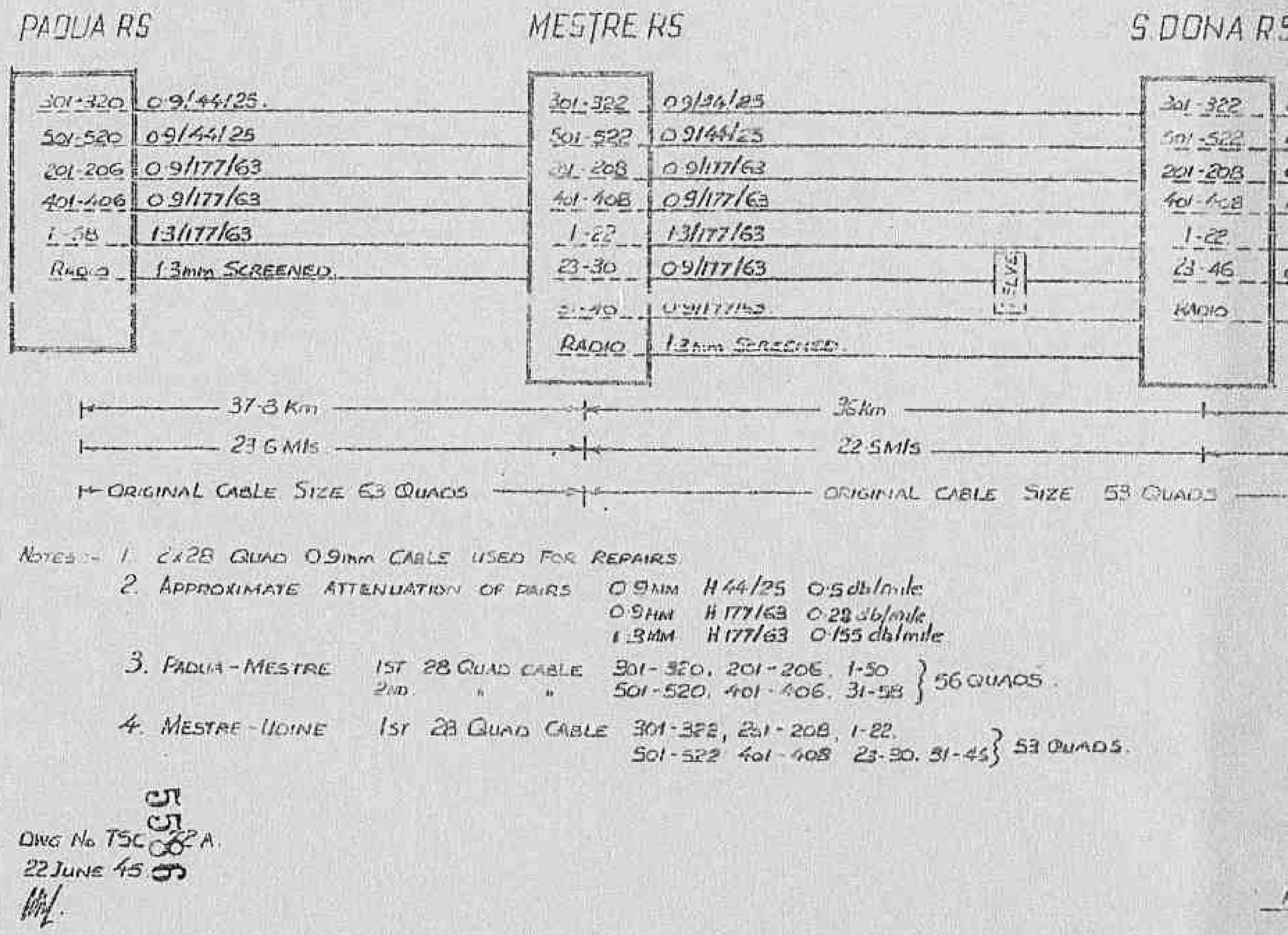
2 Replacement LPs used :- of 1 301-322. 501-522
1 pairs in one LP

Transmission Officer
No 1 U G CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS PADUA - UDINE MAIN STATE

AFTER REPAIR MAY-JUNE 1945



NOTES:- 1. 2x28 QUAD 0.9mm CABLE USED FOR REPAIRS.

2. APPROXIMATE ATTENUATION OF PAIRS
   0.9MM H 44/25 0.5 db/mile
   0.9MM H 177/63 0.28 db/mile
   1.3MM H 177/63 0.155 db/mile

3. PADUA - MESTRE
   1ST 28 QUAD CABLE 301-320, 201-206, 1-50
   2ND " " 501-520, 401-406, 31-58 } 56 QUADS.

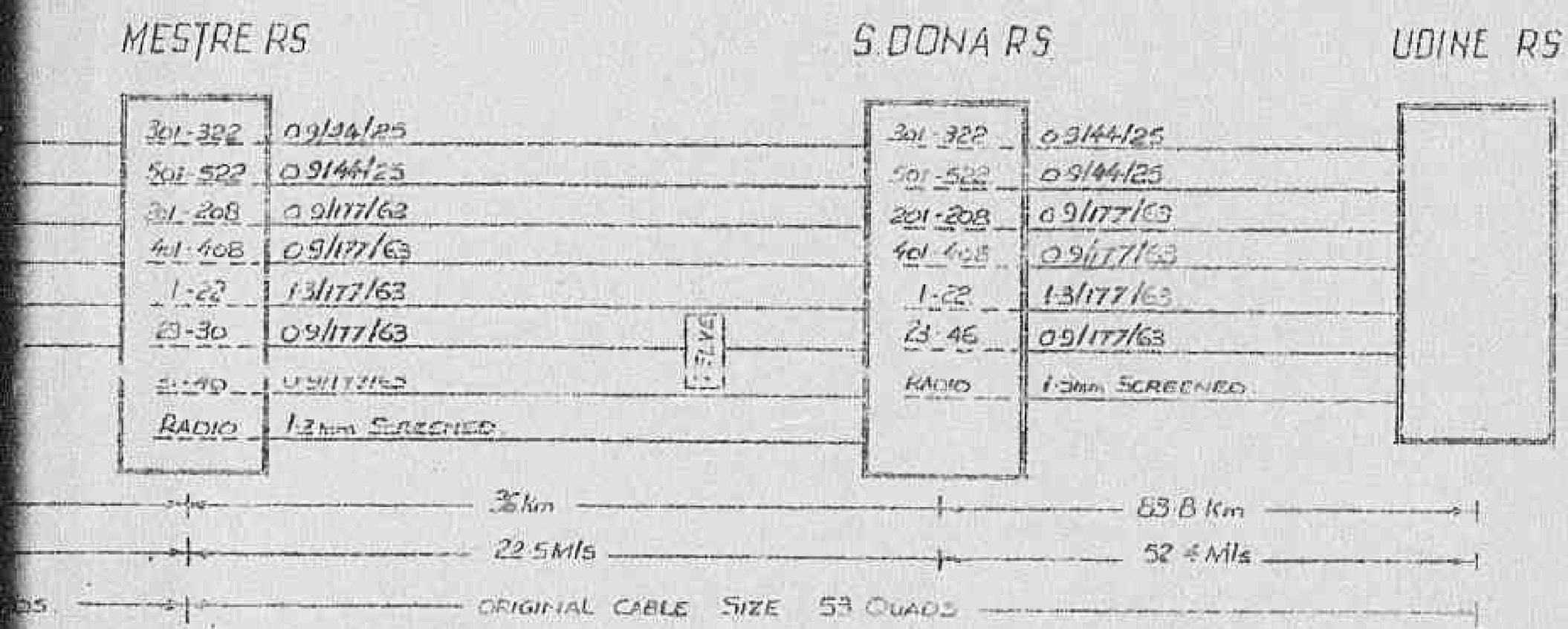
4. MESTRE - UDINE
   1ST 28 QUAD CABLE 301-322, 201-208, 1-22, 501-522 401-408 23-30, 31-45 } 53 QUADS.

DWG No TSC 62 A.
22 JUNE 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

LITY OF PAIRS PADUA – UDINE MAIN STATE CABLE

AFTER REPAIR MAY-JUNE 1945



E USED FOR REPAIRS

N OF PAIRS	0.9mm	H 44/25	0.5 db/mile
	0.9mm	H 177/63	0.28 db/mile
	1.3mm	H 177/63	0.155 db/mile

3 QUAD CABLE 301-320, 201-206, 1-30
" " 501-520, 401-406, 31-58 } 56 QUADS.

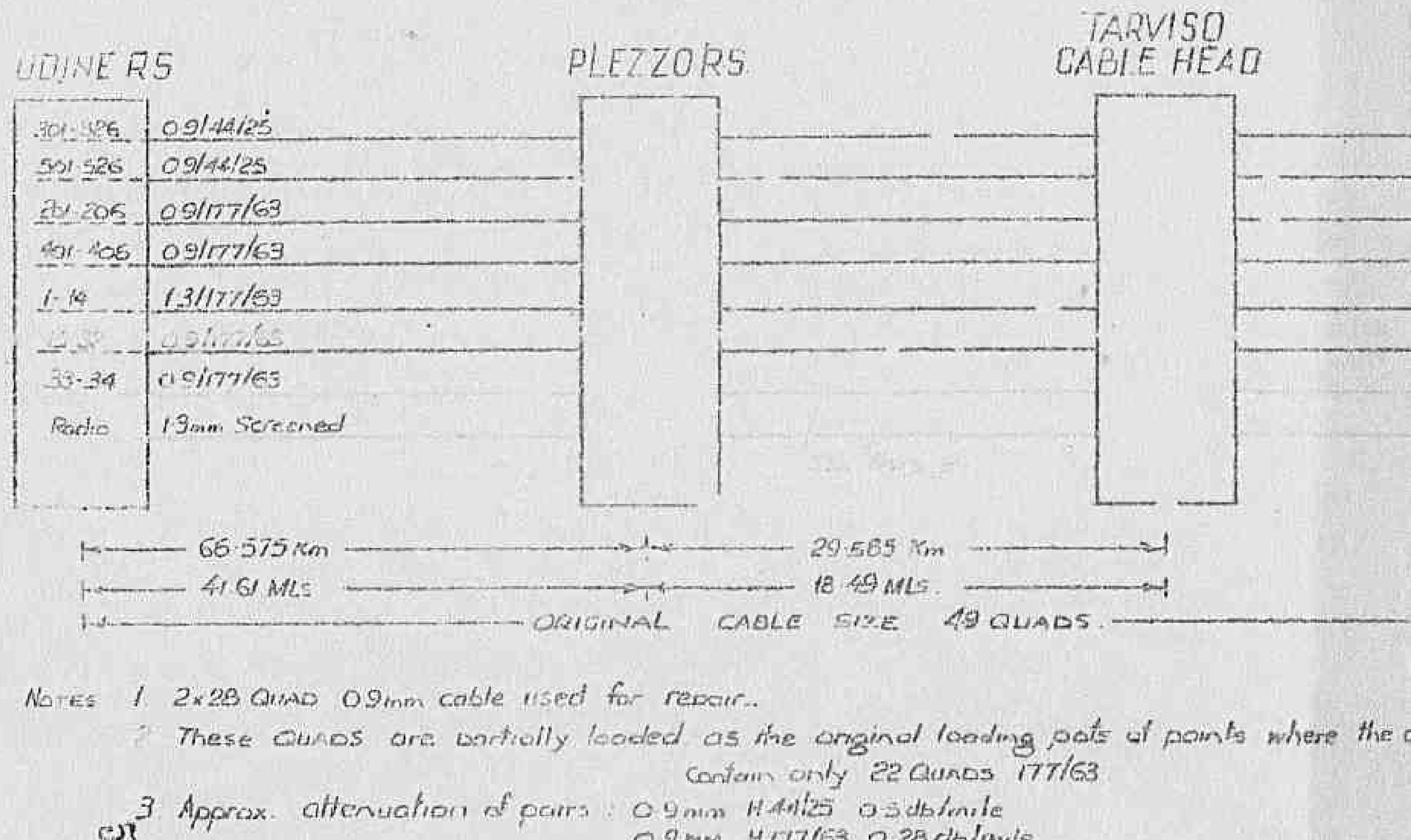
38 QUAD CABLE 301-322, 201-208, 1-22.
501-522 401-408 23-30, 31-46 } 53 QUADS.

MAJOR TRANSMISSION OFFICER
No 1 U.G CABLE COMPANY.
R. SIGNALS.

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS UDINE VILLACH [AUSTRIA]

AFTER REPAIR JUNE 1945



NOTES 1 2×28 QUAD 0·9mm cable used for repair..

2 These QUADS are partially loaded as the original loading pots at points where the c
Contain only 22 QUADS 177/63

3 Approx. attenuation of pairs : 0·9mm H 44/25 0·3db/mile
0·9mm H 177/63 0·28db/mile
1·3mm H 177/83 0·155db/mile

4. One loading pot only used as replacement at points where original pot was de
available in this replacement pot

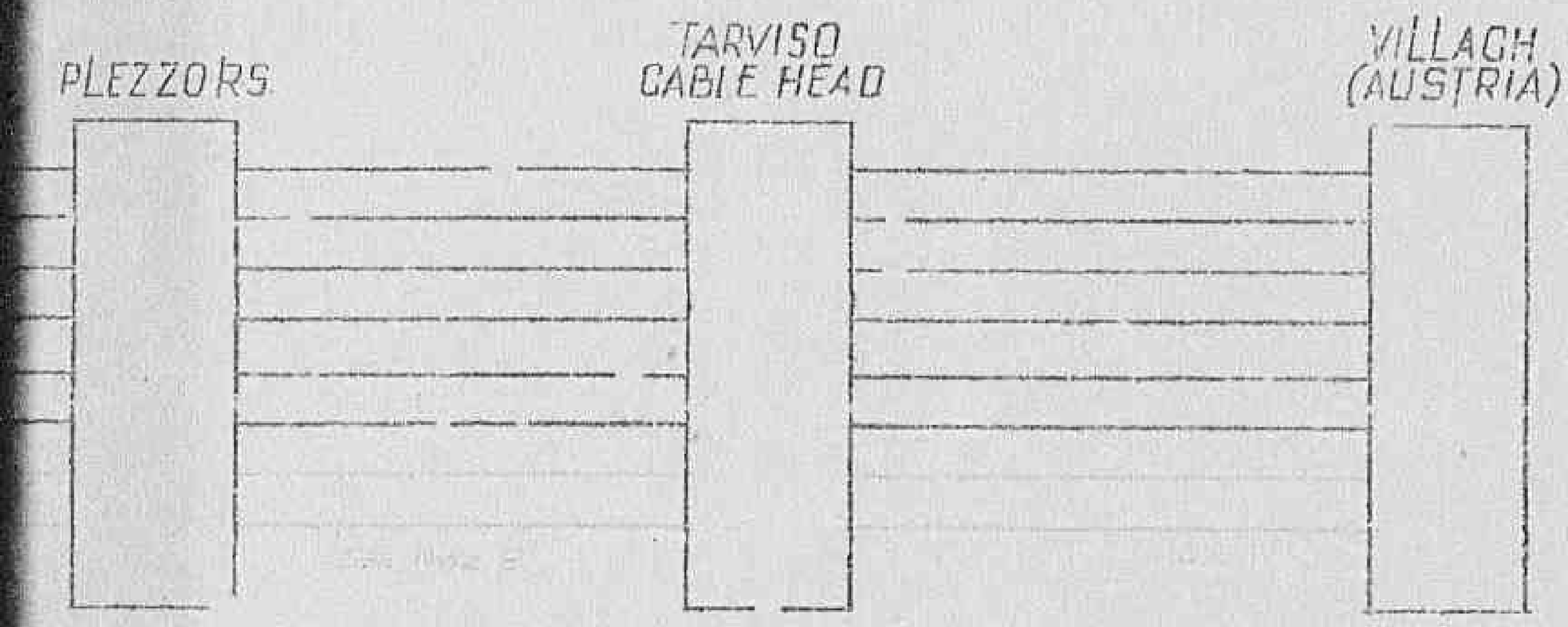
5 1ST 28 QUAD cable 301-326 201-206 1-14
501-526 401-406 15-32 33-34 } 49 QUADS

DWG NO TSC.73A
21 JUNE 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

LITY OF PAIRS UDINE VILLACH [AUSTRIA]

AFTER REPAIR JUNE 1945



sed for repair.,
lly loaded as the original loading pots of points where the original pot was destroyed.
contain only 22 QUADS 177/63.
airs : 0.9mm H4425 0.5db/mile
0.9mm H177/63 0.28db/mile
1.3mm H177/63 0.155db/mile

sed as replacement at points where original pot was destroyed, 22 QUADS 177/63
available in this replacement pot

-326	201-206	1-14
526	401-406	15-32 33-34

} 49 QUADS

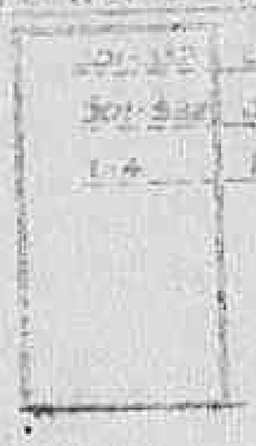
Major
TRANSMISSION OFFICER
No 1 LINE CABLE COMPANY
R. SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIR FLORENCE - BOLOGNA MAIN STATE

AFTER REPAIR MAY 1949

FLORENCE RS



Pr. 1-2	0.9mm/44/25
Pr. 3-4	0.9mm/44/25
Pr. 4	1.3mm/177/63

103 Km
63 Miles

Notes :- 1 Entire Quad 0.9mm Cable used for repairs Pairs 1-4 are routed via the radio qua
therefore at 1.3mm guage throughout

2 Approximate attenuation of pairs @ 0.9mm/44/25 0.5 db/mile
1.3mm/177/63 0.15 db/mile

3 Size of original cable is 13 Quads.

4 Pairs 1 of 2 are routed in the first 16 Quad Cable
" 3 " 4 " " " " second 16 " "
All pairs at each landing point for all Quads

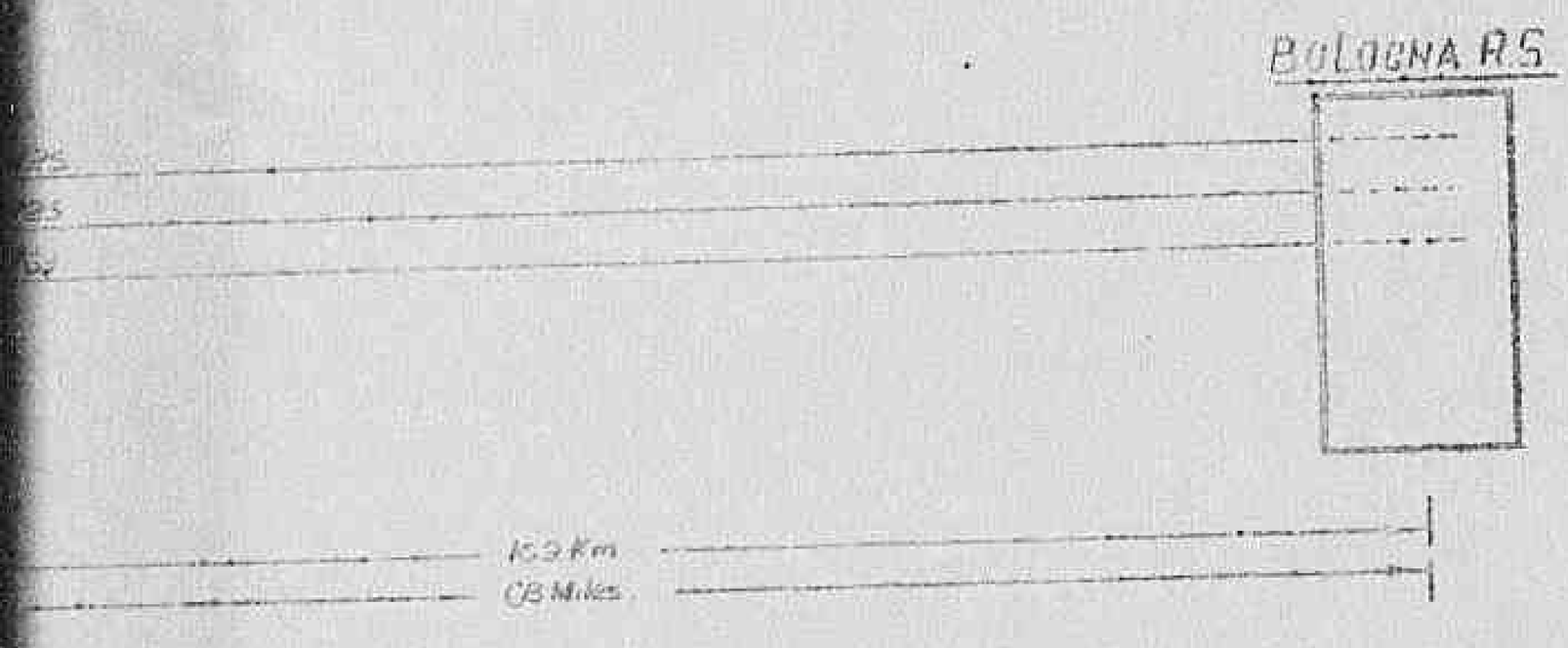
Dwg No 755 59
15 Nov 63
BJ

Declassified E.O. 12356 Section 3.3/NND No. 785015

OF FAIR FLORENCE - BOLOGNA MAIN STATE CABLE

AFTER REPAIR MAY 1945

5584



Cable used for repairs Pairs 1-4 are routed via the radio quads of these two cables and are therefore of 1.3mm gauge throughout

Loss of pairs is @ 1.3m.m/1477/63 0.5db/mile
1.3m.m/1477/63 0.19db/mile

Cable is 185 Quads.

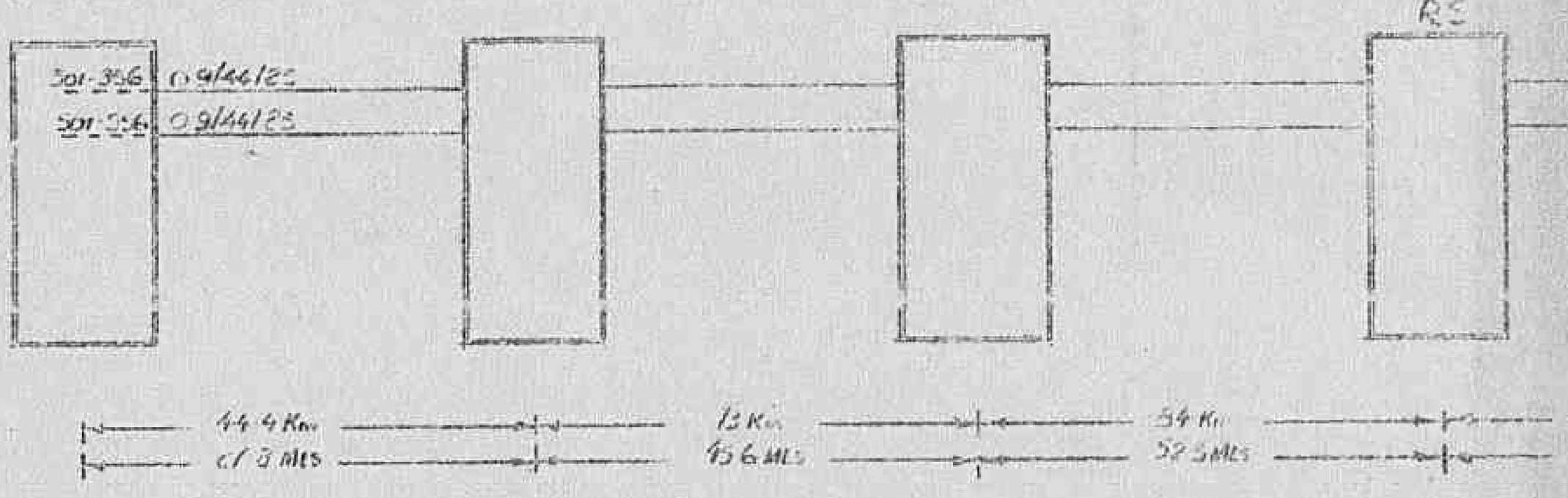
Pairs 1-2 are routed in the first 185 Quad Cable
" 3-4 " " " second " "
Pairs at each loading point four on Quads

Transmission Officer
No 1 U/G Cable Company
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS BOLOGNA - CASTEGGIO MAIN 5

AFTER REPAIR MAY - JUNE 1945



NOTES -

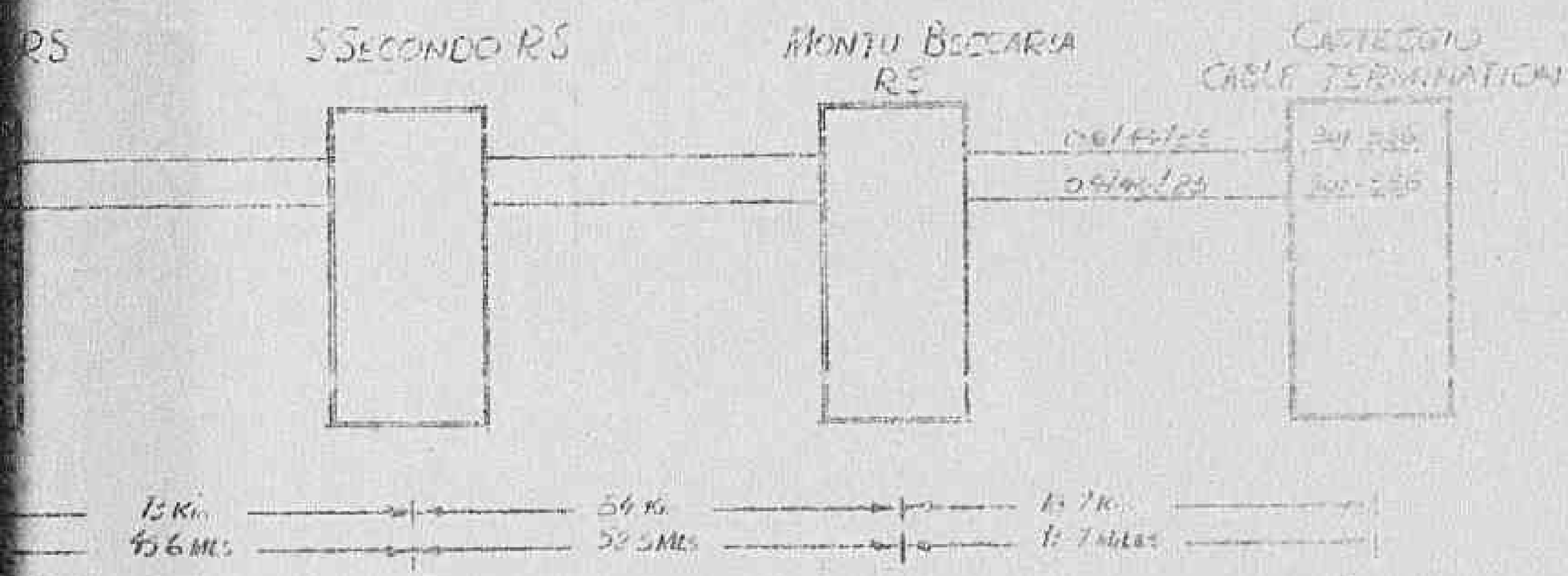
1. 2 x 28 Quad 0·9 mm Cable used for repairs
2. The Temporary Cable terminations at S. SECONDO & MONTE BECCARIA Repeater Stations — pairs 301-340 & 501-540
3. Approximate attenuation of pairs 0·5 db/mile
4. Size of original cable 112 Quads
5. Pairs 501-556 are routed in the first 28 Quad cable & first L.P.
   " 301-556 " " " Second " " Second L.P.
   i.e. 2 L.Ps used at each Loading Point

DWG No TSC 70
13 MAY 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

5583

ITY OF PAIRS BOLOGNA - CASTEGGIO MAIN STATE CABLE
AFTER REPAIR MAY - JUNE 1945



used for repairs
erminations at S Secondo & MONTU BECCARIA Repeater Stations cater for 40 quads only —
— pairs 301-340 & 501 540
ion of pairs 0.5 db/mile
112 Quads
ated in the first 28 Quad cable & first LP
" " Second " " Second LP
at each Loading Point

Transmission Officer
No 1 U.G. Cable Company

Declassified E.O. 12356 Section 3.3/NND No. 785015

[illegible] BOLOGNA - PADUA MAIN STATE

AFTER FLOOD NOV-DEC 1945

BOLOGNA S.S. — FOGLIO RINALDI R.S.

[illegible]	291 - 1/25	[illegible]	0.9/41/25
[illegible]	0.9/4 - 1/25	[illegible]	0.9/41/25
[illegible]	0.9/177/63	[illegible]	0.9/177/63
[illegible]	0.9/177/63	[illegible]	0.9/177/63
1 - 20	1.3/177/63	1 - 20	1.3/177/63
21 - 26	0.9/177/63	21 - 26	0.9/177/63 See Note 2

[illegible] — 22.1 Kc. — 94.6 Kc.

[illegible] — 25.2 Kc. — 52 Kc.

Notes (1) 26x25 Quad 0.9mm Cables used for repairs

(2) These quads are partially loaded. as the replacement loading pots at points who destroyed contain only 22 Quads. 177/63

(3) Approximate attenuation of pairs - 0.9mm H44/25 0.5 db/mile
0.9mm H177/63 0.28 db/mile
1.3mm H177/63 0.185 db/mile

(4) Size of original cable 51 Quads

(5) Pairs 401 - 412, 501 - 522 1 20 (27 Quads) are routed via the first 28 Quad C
" 201 - 216, 301 - 322 21 - 36 (26 Quads) " " " second "

(6) BOLOGNA - POGGIO 2 Replacement L.Fs used Pol 1 301 - 322, 501 - 522
POGGIO - PADUA All pairs in one L.F

DWG No. T5C 71.
17 MAY 45
[illegible]

Declassified E.O. 12356 Section 3.3/NND No. 785015

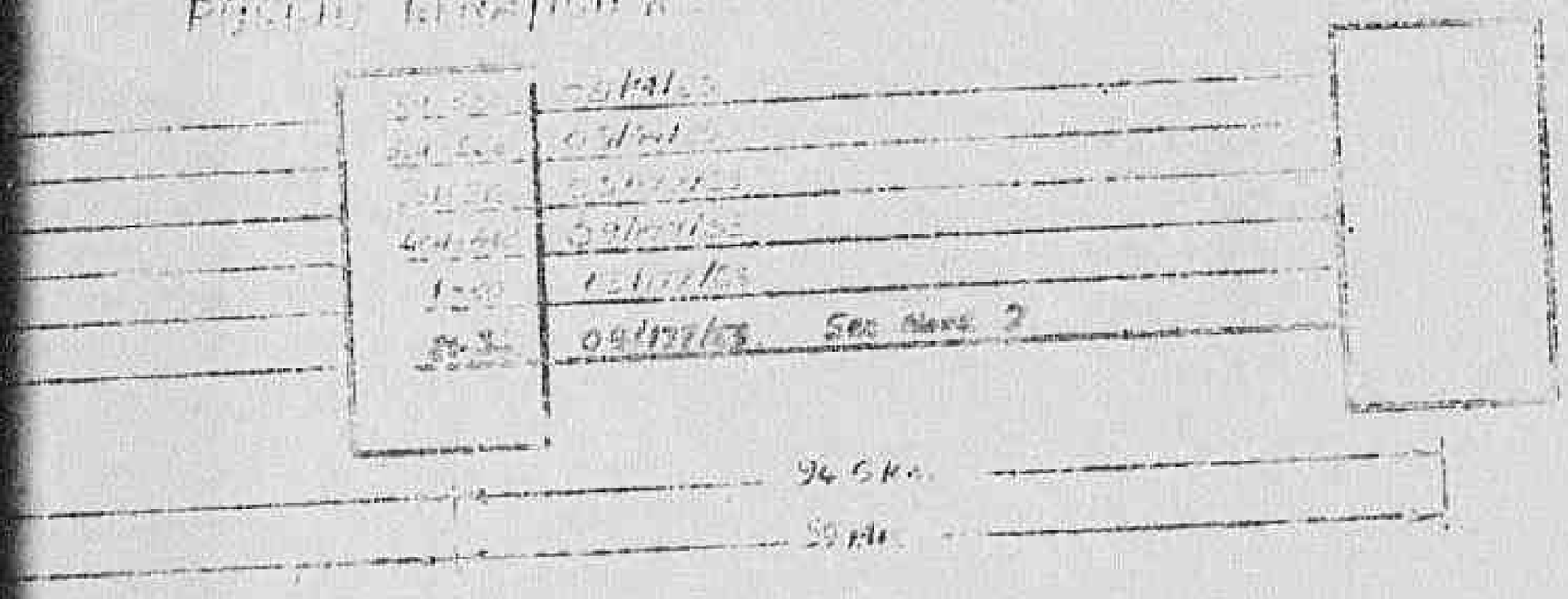
5582

...BOLOGNA - PALMA (MAJ) STATE (A.L.

...DEAR MAY-JUNE 1963

PROJECT DEVIATION R...

PALMA (...



... used for repairs

... loaded. as the replacement loading pots at points where the original pot was
... Quads 177/63.

... of pairs - 0.9mm H44/25 0.5 db/mile
0.9mm H177/63 0.28 db/mile
1.3mm H177/63 0.155 db/mile

... Quads:

1-20 (27 Quads) are routed via the first 28 Quad Cable
21-34 (24 Quads) " " second " "

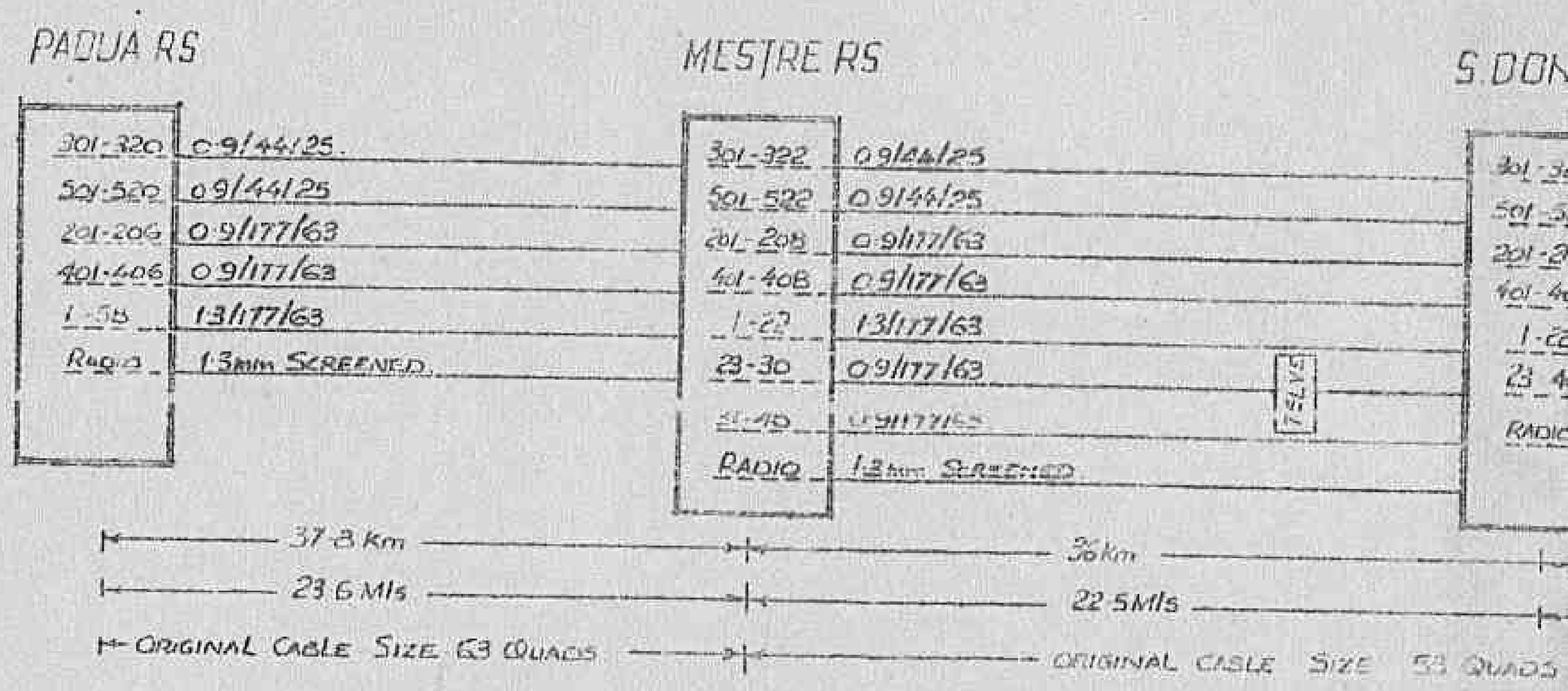
...placement LPs used Pair 1 301-322 501 522
... in one L.E

Transmission Officer
No 1 U.G. CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS PADUA - UDINE MAIN STA

AFTER REPAIR MAY-JUNE 1945



NOTES :- 1. 6x28 QUAD 0·9mm CABLE USED FOR REPAIRS.

2. APPROXIMATE ATTENUATION OF PAIRS 0·9MM H 44/25 0·5 db/mile
0·9MM H 177/63 0·28 db/mile
1·3MM H 177/63 0·155 db/mile

3. PADUA - MESTRE 1ST 28 QUAD CABLE 301-320, 201-206, 1-30
2ND. " " 501-520, 401-406, 31-58 } 56 QUADS.

4. MESTRE - UDINE 1ST 28 QUAD CABLE 301-322, 201-208, 1-22.
501-522 401-408 23-30, 31-46 } 53 QUADS.

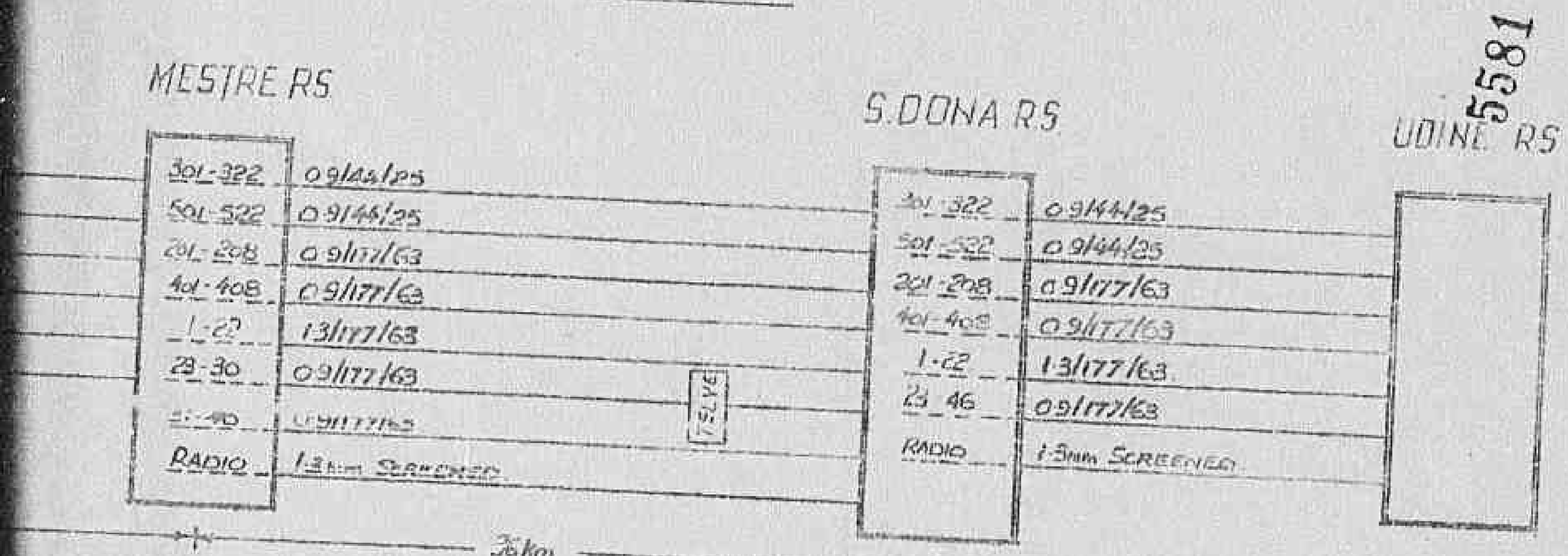
DWG No TSC. 72A.
22 JUNE 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

BILITY OF PAIRS PADUA - UDINE MAIN STATE CABLE

AFTER REPAIR MAY-JUNE 1945

5581



USED FOR REPAIRS.

ON OF PAIRS 0.9mm H 44/25 0.5db/mile
0.9mm H 177/63 0.28 db/mile
1.3mm H 177/63 0.155 db/mile

3 QUAD CABLE 301-320, 201-206, 1-30
" " 501-520, 401-406, 31-53 } 56 QUADS.

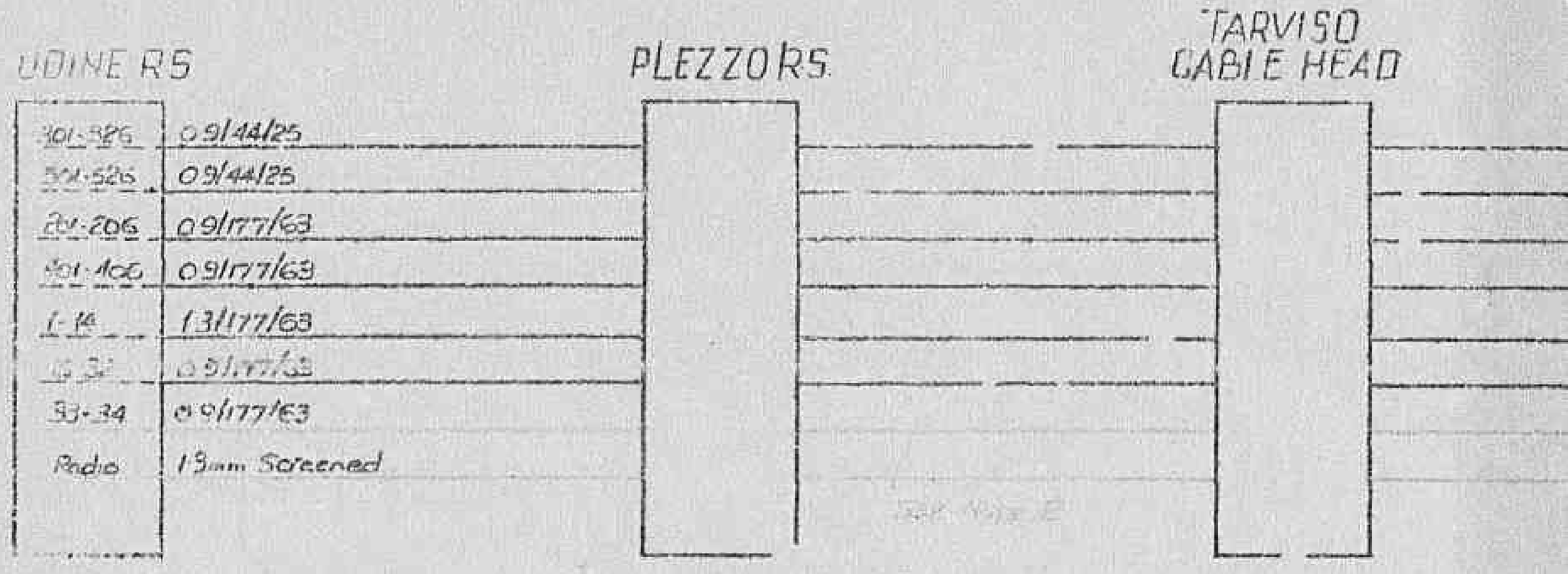
2 QUAD CABLE 301-322, 201-208, 1-22.
501-522 401-408 23-30, 31-46 } 53 QUADS.

MAJOR TRANSMISSION OFFICER
No 1 U C CABLE COMPANY
R SIGNALS

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS UDINE VILLACH [AUSTRIA]

AFTER REPAIR JUNE 1945



NOTES 1 2×28 QUAD 0.9mm cable used for repair.

2 These QUADS are partially loaded as the original loading pots at points where the c
contain only 22 QUADS 177/63.

3 Approx. attenuation of pairs : 0.9mm H44/25 0.3db/mile
0.9mm H 177/63 0.28db/mile
1.3mm H 177/63 0.155db/mile.

4 One loading pot only used as replacement at points where original pot was de
available in this replacement pot.

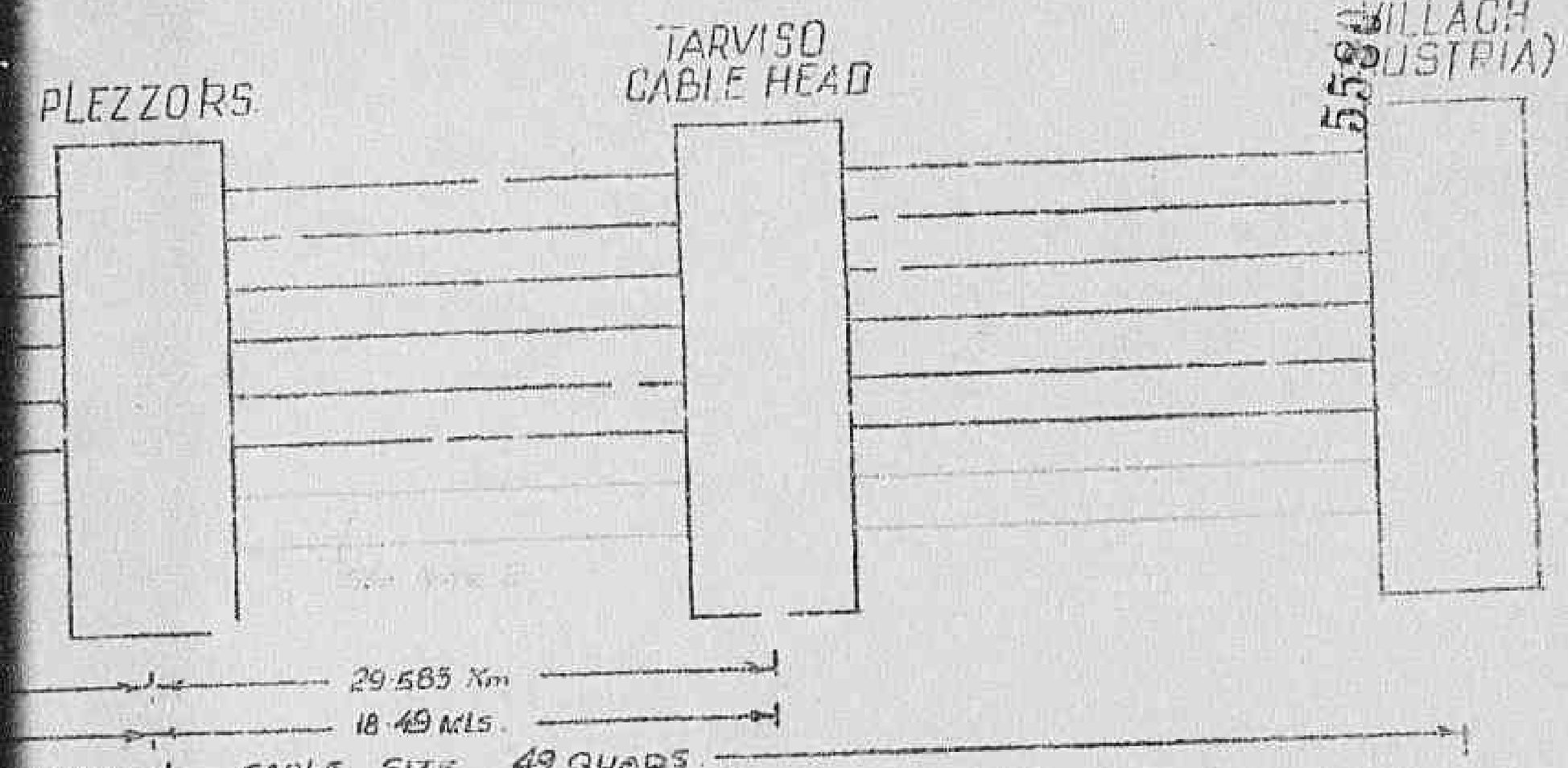
5 1ST 28 QUAD cable 301-326 201-206 1-14 } 49 QUADS
501-526 401-406 15-32 33-34 }

DWG. Nº T5C.73A
21 JUNE 45

Declassified E.O. 12356 Section 3.3/NND No. 785015

ITY OF PAIRS UDINE VILLACH [AUSTRIA]

AFTER REPAIR JUNE 1945



used for repair.
ally loaded as the original loading pots at points where the original pot was destroyed.
Contain only 22 Quads 177/63.
Pairs : 0·9mm H 44/25 0·5 db/mile
0·9mm H 177/63 0·22 db/mile
1·3mm H 177/63 0·155 db/mile.
used as replacement at points where original pot was destroyed, 22 Quads 177/63
available in this replacement pot

01 - 326 201 - 206 1 - 14
01 - 526 401 - 406 15 - 32 33 - 34 } 49 Quads

Major
TRANSMISSION OFFICER
No 1 U/G CABLE COMPANY
R. SIGNALS

Subject: ANCONA - BOLOGNA T.I.M.O. Cable
Cable Pair Layout

(1)

Nº 1 Underground Cable Coy
Tel: Vicksburg 134
Ref: TS 42/11
21 June 45

To:
DISTRIBUTION

1. Herewith Cable Pair Layout for the ANCONA - BOLOGNA Cable.

2. This diagram cancel s TSC 33C issued in February and shows the final arrangements made on this cable.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:r1H

Distribution:

CSO L of C Italy (Main)	3
" " " (Advance)	1
CSO Nº 1 District	2
Director, Communications Sub Commission HQ A.C. Rome	2
OC Fault Control ANCONA	1
" " " BOLOGNA	1
OC Maintenance Control RIMINI	1
" " " FORLI	1
RIMINI Repeater Station	1
BOLOGNA " "	2 (1 for MRS, 1 for Rptr Room)
Sgt Fisher, Maintenance Party RIMINI	3 (2 copies for TIMO Engineer)
Chief Engineer, SIRTI Rome	2
" " " Milan	2

Declassified E.O. 12356 Section 3.3/NND No. 785015

2. This diagram cancels TSC 33C issued in February and shows the final arrangements made on this cable.

(RSI OGDEN) Major R.Signals
Transmission Officer
for Lt Col GA Keith, R.Signals

RSIO:rlH

Distribution:

CSO L of C Italy (Main)	3
" " " (Advance)	1
CSO N° 1 District	2
Director, Communications Sub Commission HQ A.C. Rome	2
OC Fault Control ANCONA	1
" " " BOLOGNA	1
OC Maintenance Control RIMINI	1
" " " FORLI	1
RIMINI Repeater Station	1
BOLOGNA " "	2 (1 for MRS, 1 for Rptr Room)
Sgt Fisher, Maintenance Party RIMINI	3 (2 copies for TIMO Engineer)
Chief Engineer, SIRTI Rome	2
" " " Milan	2
TIMO, Rome	1
Azienda di Stato per i Servizi Telefonici, Roma	1
Telecommunications Officer, AMG/AC, BOLOGNA	1
Lt Col GA Keith	1
Cable Officer	2
Transmission Officer	1

File: TS 42/11

5579

Director
D/Director
Chief Telecoms
Chief Postal
H Q Coms O
Asst Chief Posta
Censorship
Chief Clerk

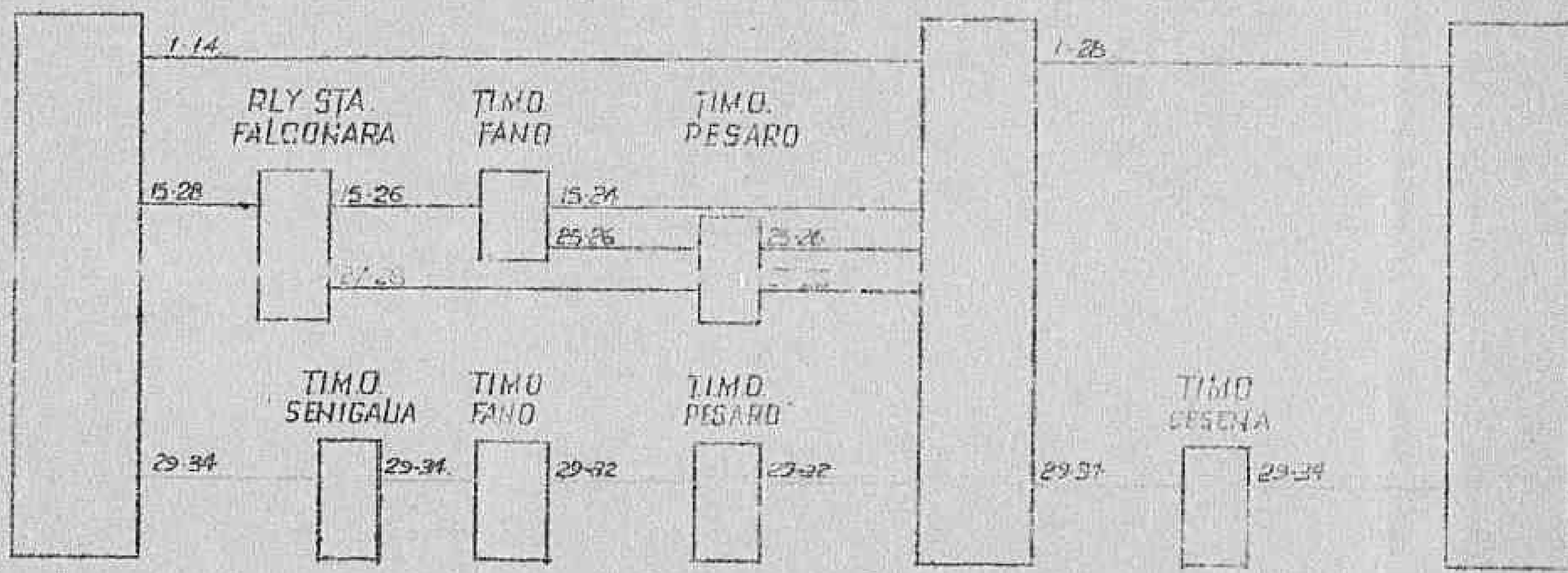
SS.
FS.
FILE T.64
B/Fwd.
25 GIU 1945

Declassified E.O. 12356 Section 3.3/NND No. 785015

Declassified E.O. 12356 Section 3.3/NND No. 785015

AVAILABILITY OF PAIRS ANCONA - BOLOGNA TIMO

AFTER REPAIR MAY - JUNE 1945



Notes 1. Pairs shown in green are partially loaded
2. 1-160 Quad cable used for repairs
3. All pairs 13mm loading 177m lt "side" on
4. Approximate attenuation of fully loaded

DWG No TSC 33D. (cancels TSC 33C)
21 JUNE 45.

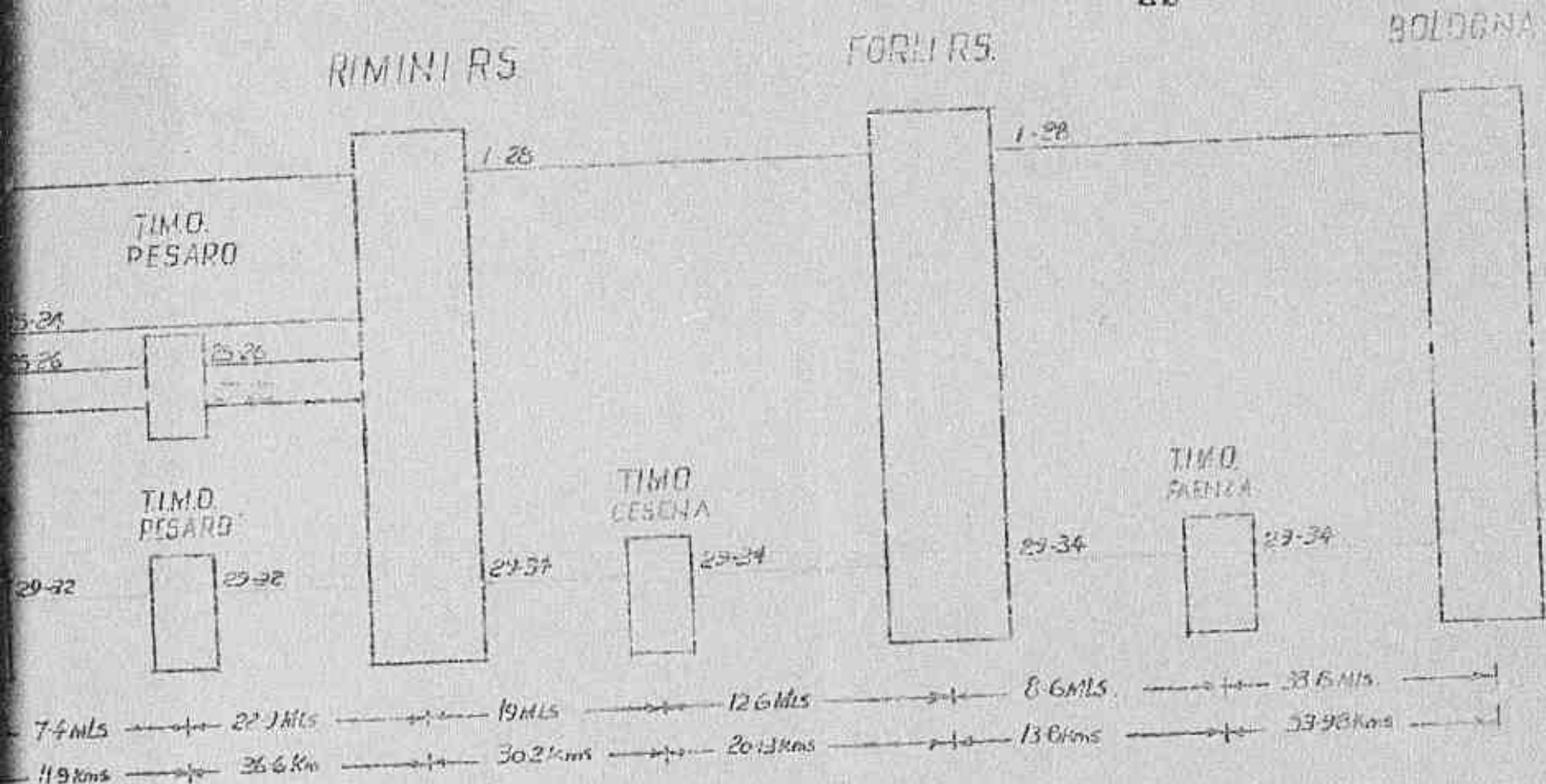
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No 1

Declassified E.O. 12356 Section 3.3/NND No. 785015

TY OF PAIRS ANCONA - BOLOGNA TIMO CABLE

AFTER REPAIR MAY-JUNE 1945

5578



partially loaded
repairs

3. All pairs 1·3mm loading 177mfr 'side' only
4. Approximate attenuation of fully loaded pairs is 0·16db/mile.

Major
Transmission Officer
No 1 U/C Cable Company
R. Signals

1606