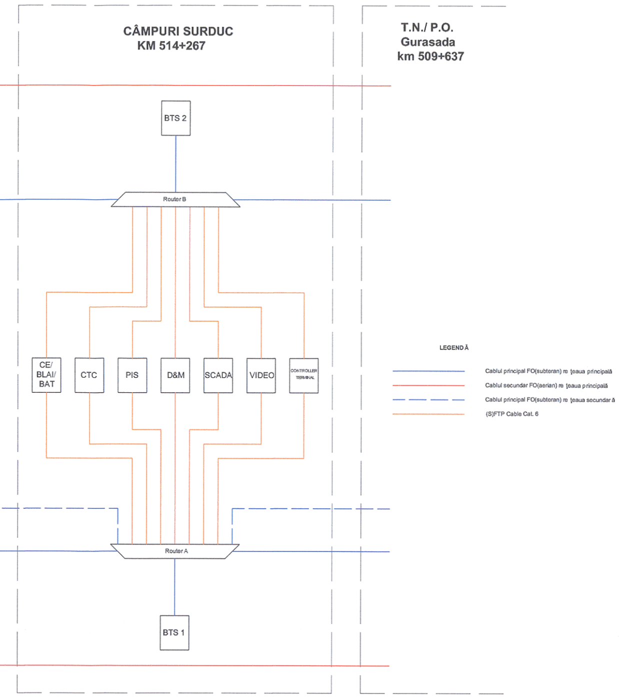

CÂMPURI SURDUC
KM 514+267
T.N./ P.O.
Gurasada
km 509+637
BTS 2
Router B
CE/
BLAI/
BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER
TERMINAL
Router A
BTS 1
LEGENDĂ
Cablul principal FO(subteran) reţeaua principală
Cablul secundar FO(aerian) reţeaua principală
Cablul principal FO(subteran) reţeaua secundară
(S)FTP Cable Cat. 6

Indice Index	Data Date	Descriere Description	Semnatura Signature	Semnatura Signature	Semnatura Signature	Semnatura Signature
Modificare / Revision	E					
	D					
	C					
	B					
	A					

European Investment Bank

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA

PROIECTANT / DESIGNER: PÖYRY			Data / Date	Semnatura Signature
Aprobat Approved	Sef de echipa Team leader	C. Teodorescu	01.2013	
Verificat Checked	Expert Cheie Key Expert	R. Trommer	01.2013	
Subcontractant / Subcontractor		VIOTOP		
Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	A.M. Baicu	01.2013	
Proiectat Designed	Inginer Engineer	A. Sopov	01.2013	

"Reabilitarea liniei c.f. Frontieră - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru circulaţia trenurilor cu viteză maximă de 160 km/h"
Tronsonul 2-A : km 614 - cap Y Bârzava
"Rehabilitation of the Railway Line Border - Curtici - Simeria, component Part of the IV Pan - European Corridor for the Trains Circulation with maximum speed of 160 km/h"
Section 2-A : km 614 - end Y Bârzava

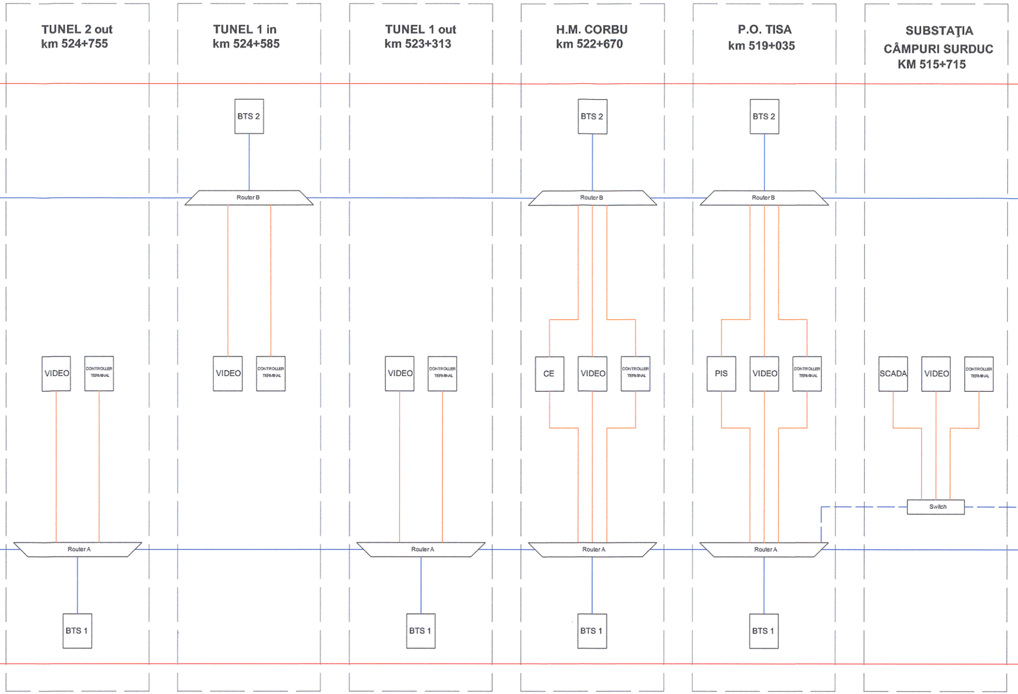
Project 9i
35311.1

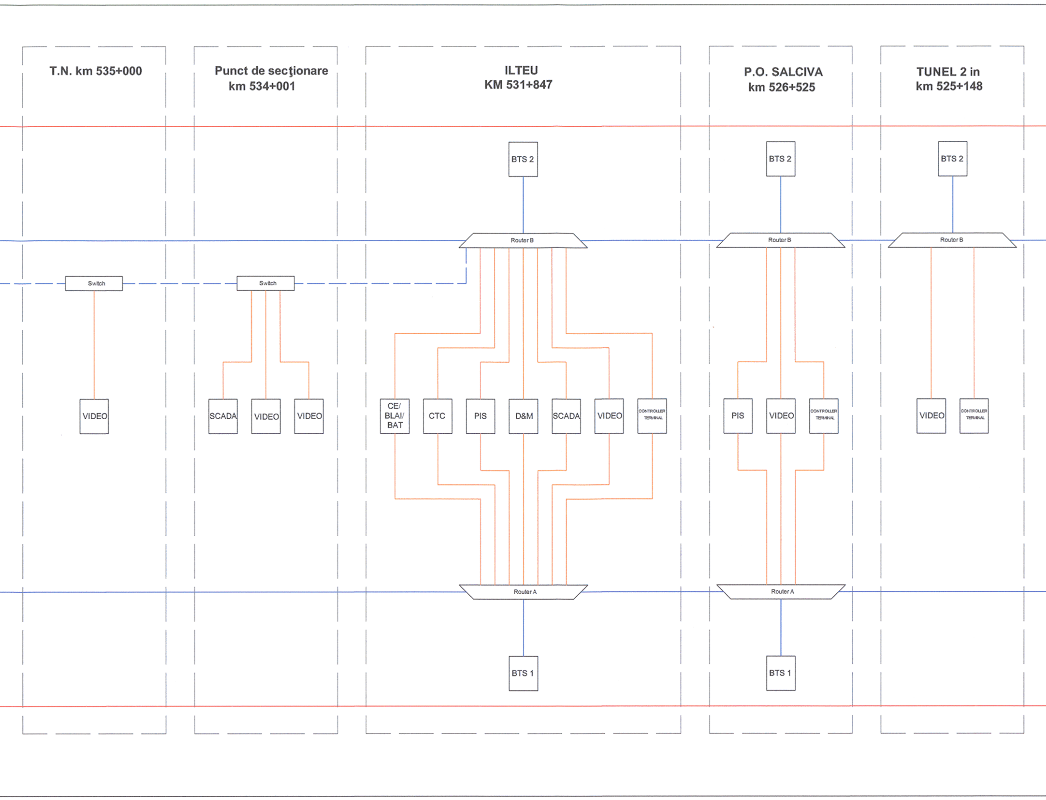
Faza / Phase:
PTh +CS / TD + TS

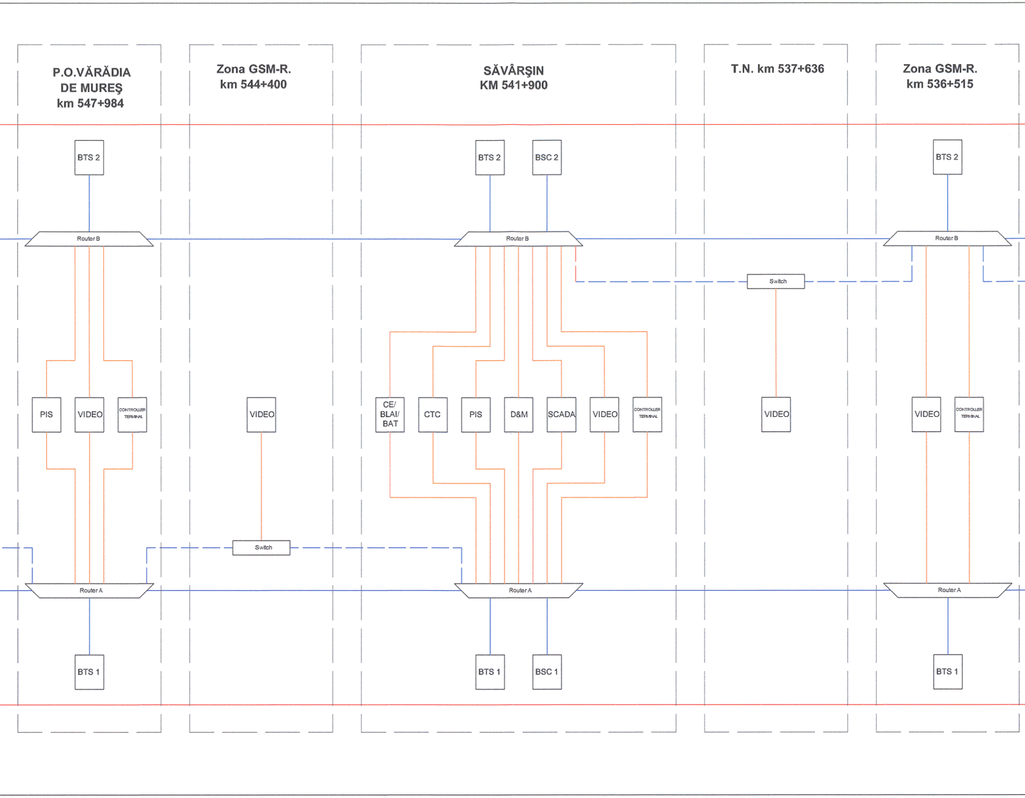
Denumire desen / Drawing Title :

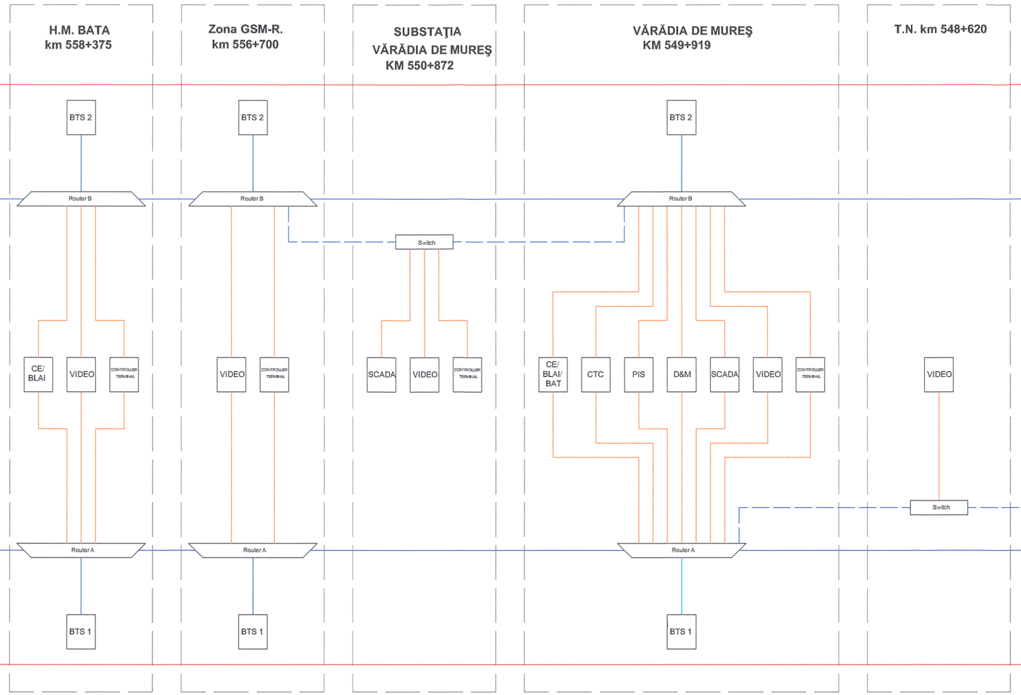
Arhitectura reţelei de semnalizare, GSM-R şi supraveghere video
Signaling, GSM-R and video survive network architecture

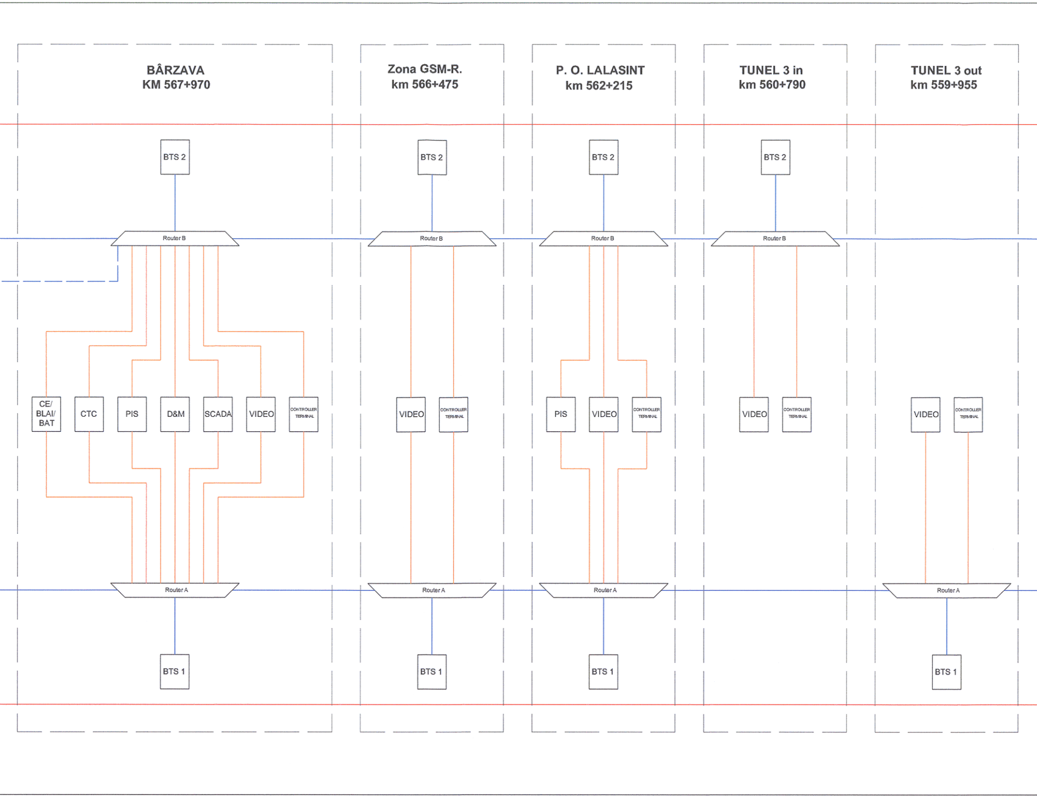
Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
-	1/16.05.2013	PT.00.04.00.SM.001	01/01

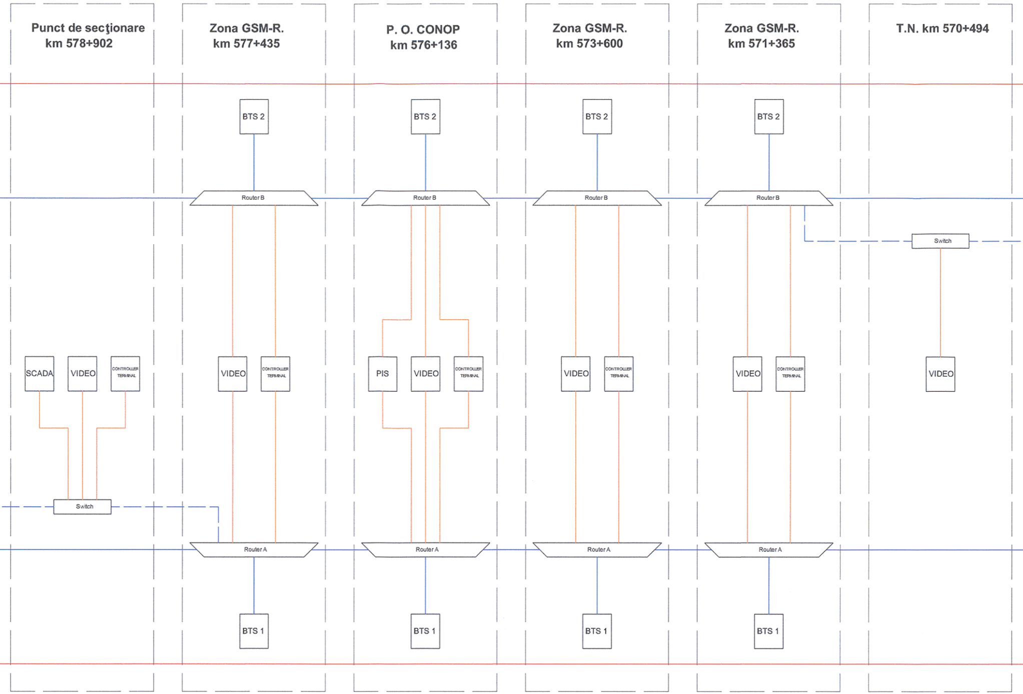

TUNEL 2 out
km 524+755
TUNEL 1 in
km 524+585
TUNEL 1 out
km 523+313
H.M. CORBU
km 522+670
P.O. TISA
km 519+035
SUBSTAȚIA
CÂMPURI SURDUC
KM 515+715
BTS 2
BTS 2
BTS 2
Router B
Router B
Router B
VIDEO
CONTROLLER TERMINAL
VIDEO
CONTROLLER TERMINAL
VIDEO
CONTROLLER TERMINAL
CE
VIDEO
CONTROLLER TERMINAL
PIS
VIDEO
CONTROLLER TERMINAL
SCADA
VIDEO
CONTROLLER TERMINAL
Switch
Router A
Router A
Router A
Router A
BTS 1
BTS 1
BTS 1
BTS 1

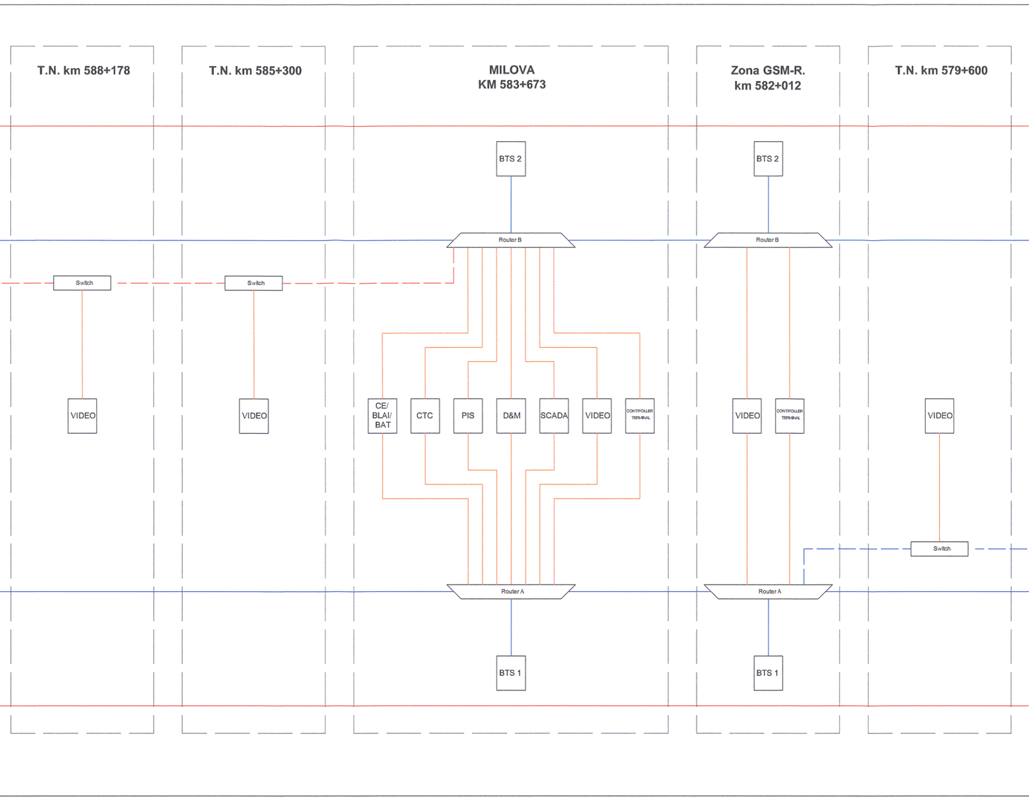

T.N. km 535+000
Punct de secţionare km 534+001
ILTEU KM 531+847
P.O. SALCIVA km 526+525
TUNEL 2 in km 525+148
BTS 2
BTS 2
BTS 2
Router B
Router B
Router B
Switch
Switch
VIDEO
SCADA
VIDEO
VIDEO
CE/ BLAI/ BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL
PIS
VIDEO
CONTROLLER TERMINAL
VIDEO
CONTROLLER TERMINAL
Router A
Router A
BTS 1
BTS 1

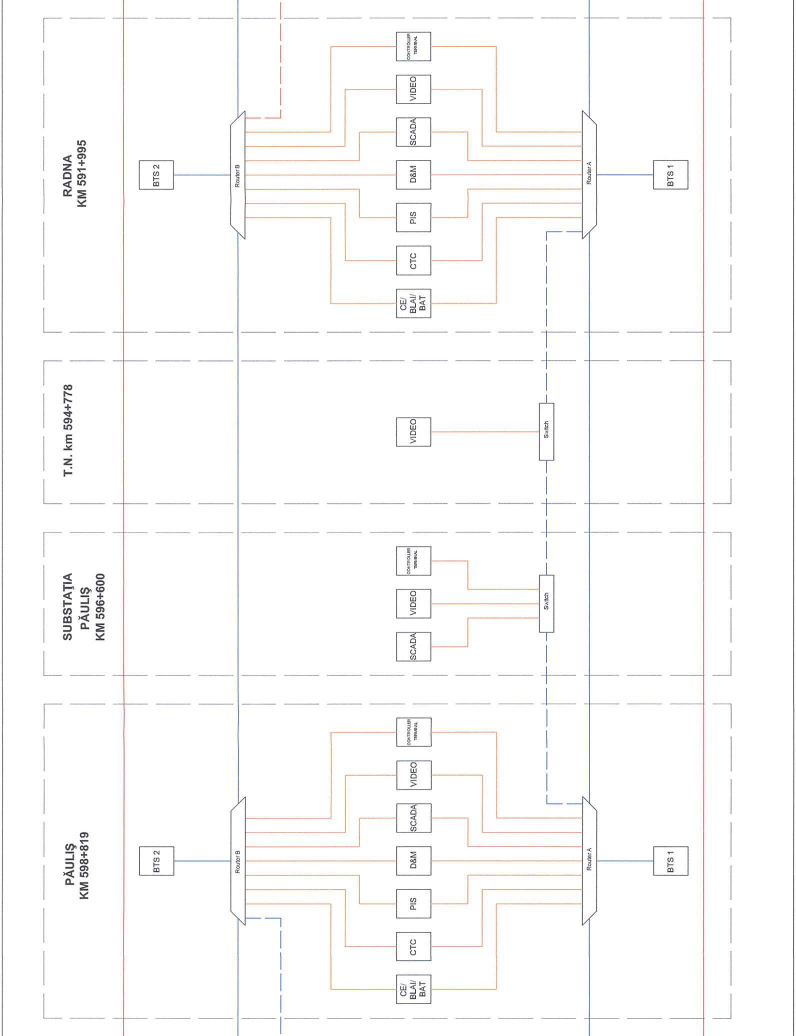

P.O.VĂRĂDIA
DE MUREŞ
km 547+984
BTS 2
Router B
PIS
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
Zona GSM-R.
km 544+400
VIDEO
Switch
SĂVÂRŞIN
KM 541+900
BTS 2
BSC 2
Router B
CE/
BLAI/
BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
BSC 1
T.N. km 537+636
Switch
VIDEO
Zona GSM-R.
km 536+515
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1

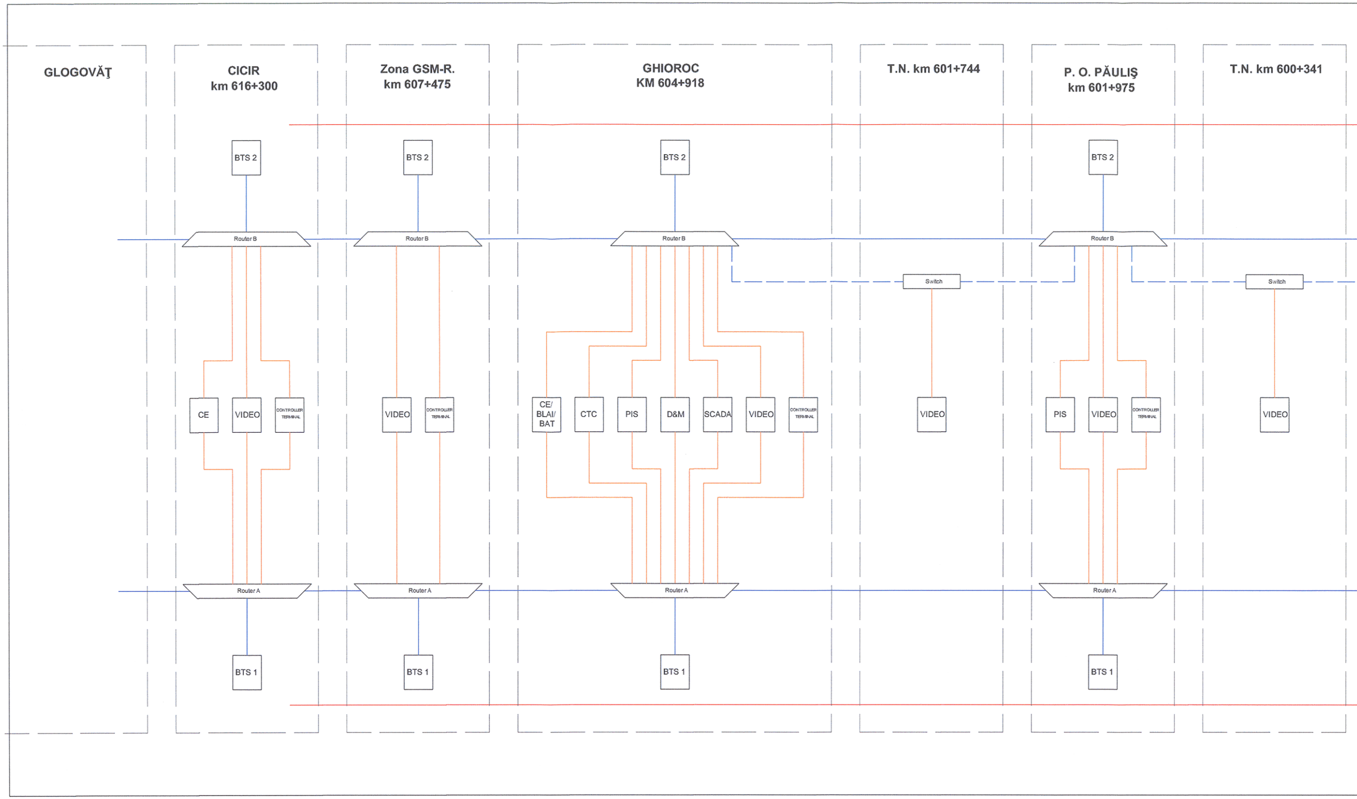

H.M. BATA
km 558+375
BTS 2
Router B
CE/
BLAI
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
Zona GSM-R.
km 556+700
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
SUBSTAŢIA
VĂRĂDIA DE MUREŞ
KM 550+872
Switch
SCADA
VIDEO
CONTROLLER TERMINAL
VĂRĂDIA DE MUREŞ
KM 549+919
BTS 2
Router B
CE/
BLAI/
BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
T.N. km 548+620
VIDEO
Switch


BÂRZAVA
KM 567+970
BTS 2
Router B
CE/ BLAI/ BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
Zona GSM-R.
km 566+475
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
P. O. LALASINT
km 562+215
BTS 2
Router B
PIS
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
TUNEL 3 in
km 560+790
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
TUNEL 3 out
km 559+955
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1


Punct de secţionare
km 578+902
SCADA
VIDEO
CONTROLLER TERMINAL
Switch
Zona GSM-R.
km 577+435
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
P. O. CONOP
km 576+136
BTS 2
Router B
PIS
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
Zona GSM-R.
km 573+600
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
Zona GSM-R.
km 571+365
BTS 2
Router B
VIDEO
CONTROLLER TERMINAL
Router A
BTS 1
T.N. km 570+494
Switch
VIDEO


T.N. km 588+178
T.N. km 585+300
MILOVA
KM 583+673
Zona GSM-R.
km 582+012
T.N. km 579+600
BTS 2
BTS 2
Router B
Router B
Switch
Switch
VIDEO
VIDEO
CE/
BLAI/
BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER
TERMINAL
VIDEO
CONTROLLER
TERMINAL
VIDEO
Switch
Router A
Router A
BTS 1
BTS 1


PĂULIŞ
KM 598+819
BTS 2
Router B
Router A
BTS 1
CE/BLAI/BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL
SUBSTAŢIA PĂULIŞ
KM 596+600
SCADA
VIDEO
CONTROLLER TERMINAL
Switch
T.N. km 594+778
VIDEO
Switch
RADNA
KM 591+995
BTS 2
Router B
Router A
BTS 1
CE/BLAI/BAT
CTC
PIS
D&M
SCADA
VIDEO
CONTROLLER TERMINAL


GLOGOVĂŢ
CICIR
km 616+300
Zona GSM-R.
km 607+475
GHIOROC
KM 604+918
T.N. km 601+744
P. O. PĂULIŞ
km 601+975
T.N. km 600+341
BTS 2
BTS 2
BTS 2
BTS 2
Router B
Router B
Router B
Router B
Switch
Switch
CE
VIDEO
CONTROLLER TERMINAL
VIDEO
CONTROLLER TERMINAL
CE/
BLAI/
BAT
CTC
PIS
D&M
SCADA
VIDEO
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CONTROLLER TERMINAL
VIDEO
Router A
Router A
Router A
Router A
BTS 1
BTS 1
BTS 1
BTS 1