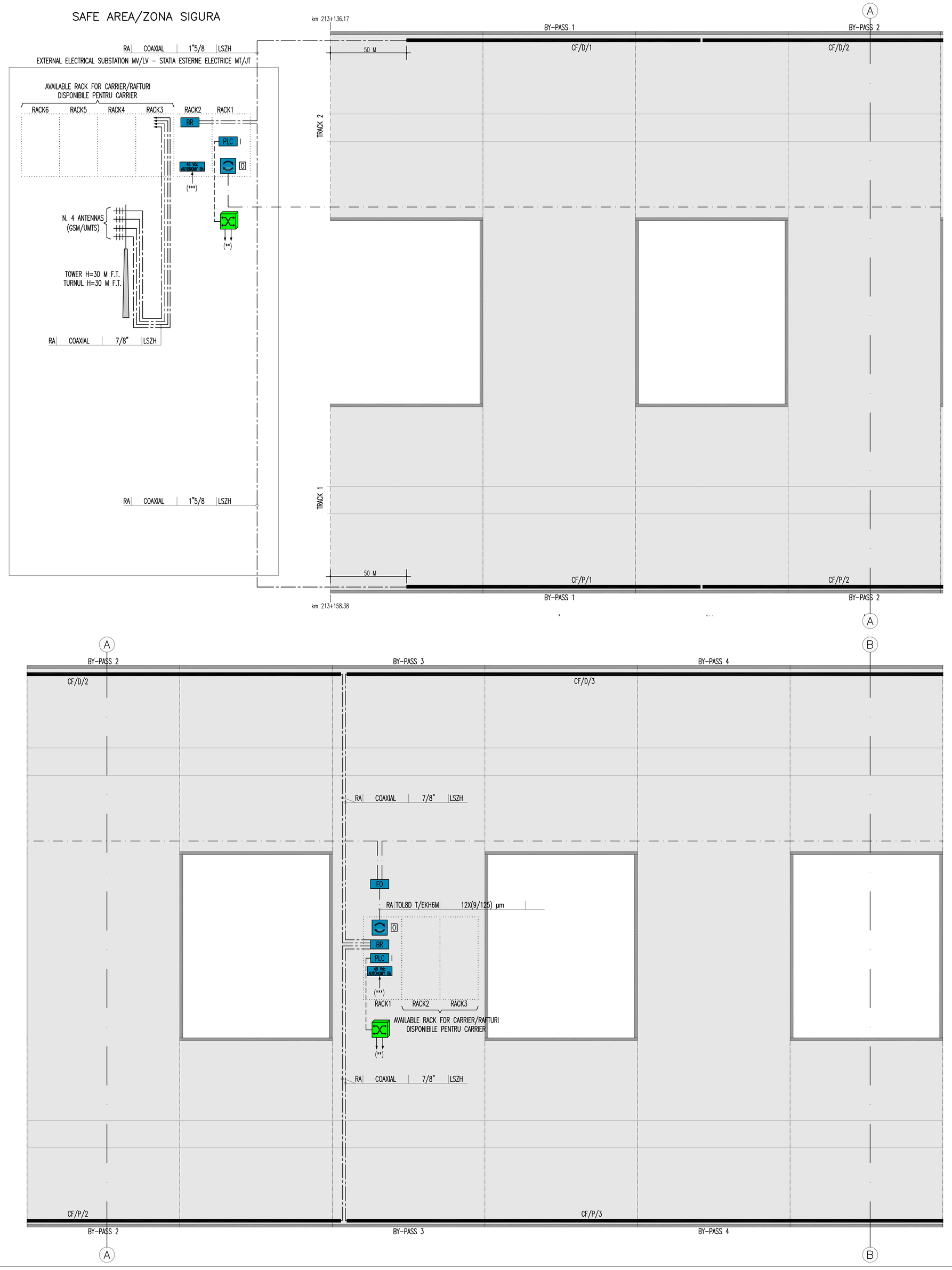
SAFE AREA/ZONA SIGURA



POSITION EQUPIMENTS LEGEND/ LEGENDA POZITIA EQUIPAMENTE

..../PE	SAFE AREA/ZONA SIGURA
..../..../D	TRACK 2/PISTA 2
..../..../P	TRACK 1/PISTA 1
...../1	PROGRESSIVE NUMBERING/PROGRESSIVE NUMEROTAREA

RADIO SYSTEM SYMBOLS SISTEMUL RADIO SIMBOLURI

	DEDICATED COMMUNICATION NETWORK SINGLEMODE FIBER OPTIC RETELEI DE COMUNICATII DEDICAT PRIN FIBRA OPTICA SINGLEMODE
	COAXIAL CABLE FOR RADIO SYSTEMS/CABLU COAXIAL PENTRU SISTEME RADIO
	ETHERNET NETWORK ON CABLE CAT6 UTP/ETHERNET PE CABLU CAT 6 UTP
	RADIANT CABLE SLOT 1"5/8 CABLU RADIANT SLOT 1"5/8
	UMTS/GSM ANTENNAS/ANTENE UMTS/GSM
BR	DEVICES OF SIGNAL DIFFUSION ON CABLE RADIANT(BRANCING GSM) DISPOZITIVE DE DEZVĂLUIREA PE SIGNAL CABLE RADIANT
FO	FIBER OPTIC BOX LEADS/CASETA DUCE FIBRA OPTICA
PLC *	PROGRAMMABLE LOGIC CONTROLLERS (PLC) T – EMERGENCY PHONE + SOUND/TELEFON DE URGENȚĂ + SUNET (TEM_DS) I – SYSTEM RADIOPROPAGATION GSM/SISTEM RADIO PROPAGARE GSM (IRG)
48 Vdc AUTONOMIE 3h	POWER STATION 48 Vdc/STATIA DE PUTERE 48 Vdc
	PASSIVE SYSTEM PATCH/PASIV SISTEM PATCH: [R] CABLE UTP CAT.6/CABLU UTP CAT.6 [O] FIBER OPTIC CABLE (MULTIMODE AND–OR SINGLEMODE)/CABLU DE FIBRA OPTICA (MULTIMODE SI–SAU SINGLEMODE)
	ACTIVE EQUIPMENT/ACTIVE UTILAJE SWITCH NODE/SWITCH NOD [G] GENERAL SWITCH/SWITCH GENERALE SWITCH OF CROSSROADS/SWITCH DE INTERSECȚIE

ELECTRIC CABLES INDICATORS/ INDICATORI DE CABLURI ELECTRICE

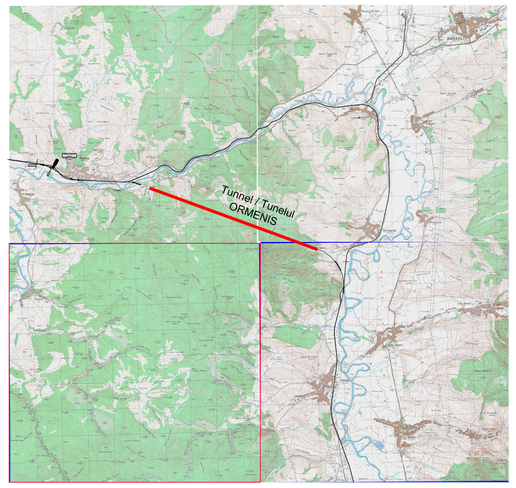
A – SYSTEM

MV	MEDIUM VOLTAGE,MEDIE TENSIUNE
BT(x)	LOW VOLTAGE/JOASA TENSIUNE (1) = 1000 V, (2) = 690 V, (3) 400/230 V;
PE	PROTECTIVE CONDUCTOR/CONDUCTORULUI DE PROTECȚIE
IE	OUTDOOR LIGHTING/ILUMINAT EXTERIOR;
RD	DATA NETWORK/REȚEA PENTRU DATE;
CA	ANTINTRUSION–ACCESS CONTROL/ANTIEFRACTIE–ACCESUL CONTROLUL;
RI	FIRE DETECTION/DE DETECTARE A INCENDIILOR; TV TVCC;
RA	RADIO GSM.

B – CABLE TYPE/CABLU TIP
C – TRAINING CABLE/FORMAREA CABLE
D – OTHERS INFORMATIONS/INFORMATII SUPLIMENTARE

A B C D

GENERAL PLAN / PLANUL GENERAL



Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A					

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT

ITALFERR GRUPPO FERROVIE DELLO STATO Joint Venture leader
Scott Wilson
OBERMEYER PLANEN + BERATEN GmbH
TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Șef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Tunel Expert Tunnel Expert	C. Gambelli		
Întocmit Elaborated	Proiectant Designer	P. Amodio		

SUBCONSULTANT / SUBCONSULTANT

Aprobat Approved	Responsabilă Subconsultant Subconsultant Responsible			
Întocmit Elaborated	Proiectant Designer			

Reabilitarea liniei de cale ferata Brașov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h.
Sectiune 1 Brasov - Sighisoara

Rehabilitation of the railway line Brașov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h.
Section 1 Brasov - Sighisoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title : **TUNNEL/TUNELUL ORMENIS**
NATURAL TUNNEL/TUNELUL NATURAL
Radiocommunication systems/Sisteme radio
Diagrams radiocommunication systems: GSM radio propagation /Diagrame Sistem radio: radio GSM propagare

Codificare / Codification System

Scara / Scale: -

LOT

Nr. / No: **1/3**

E A 5 1 0 1 C 1 0 L X T S 1 0 1 4 0 0 1 0