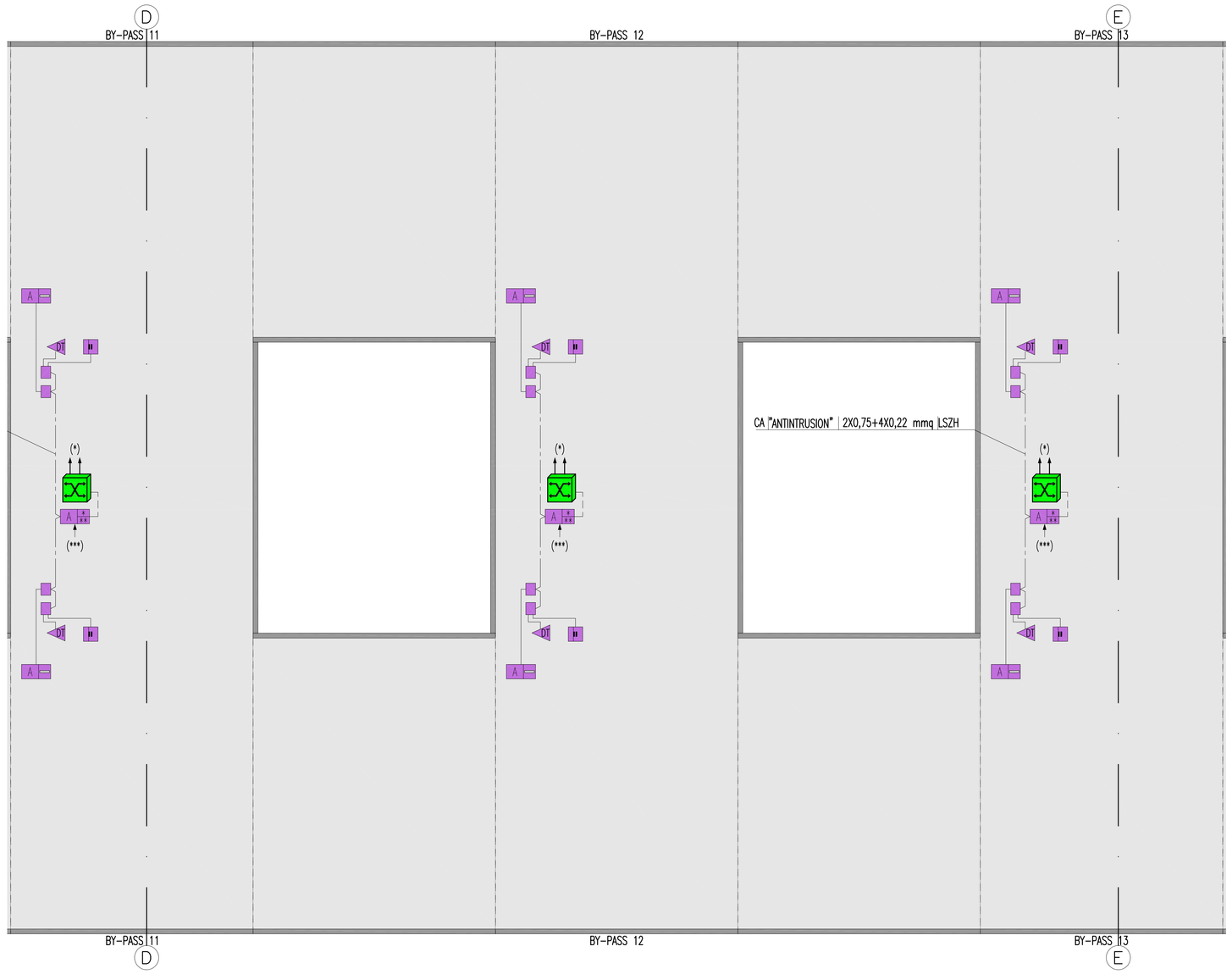
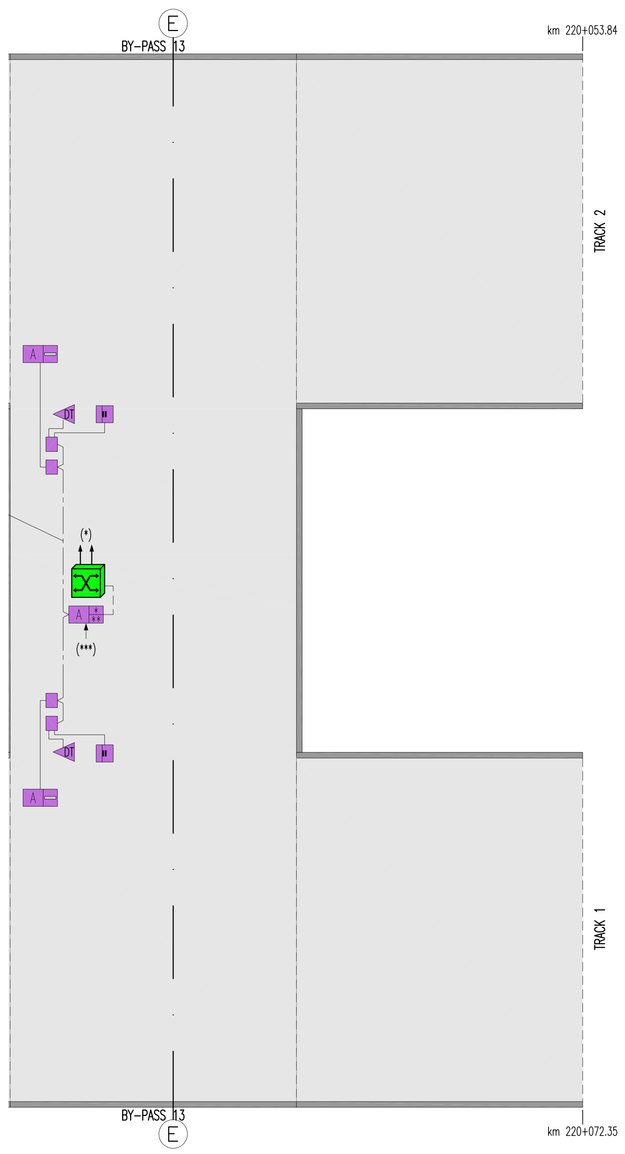
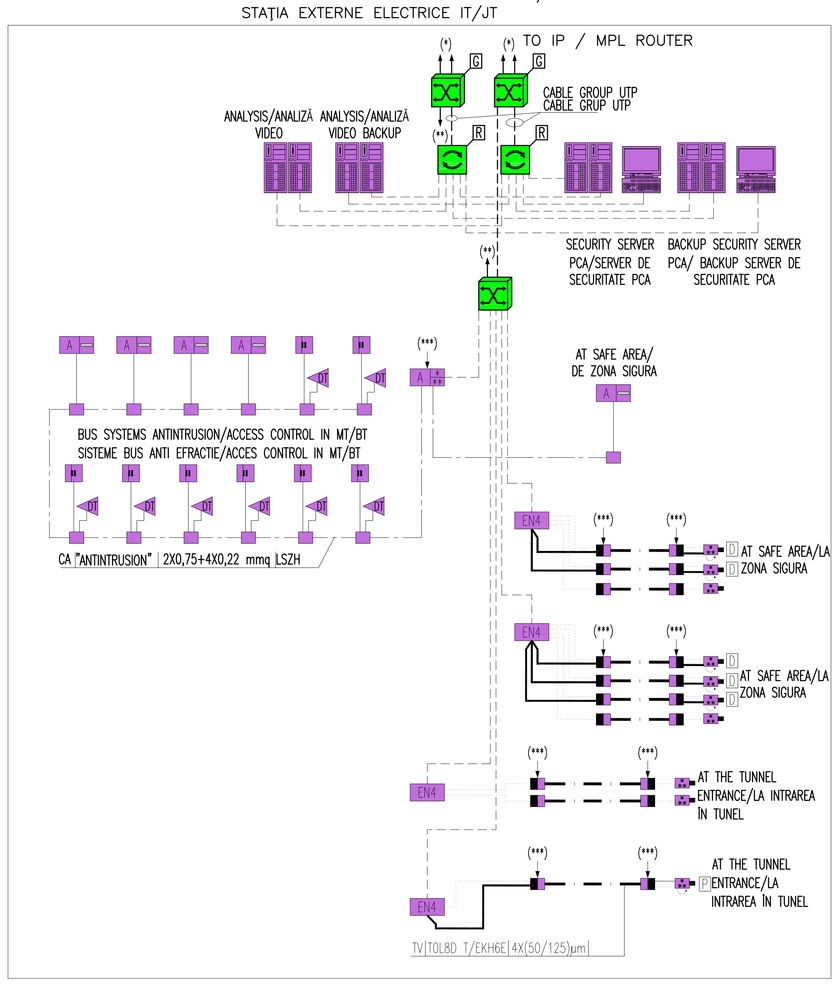




SAFE AREA/ZONA SIGURA

EXTERNAL ELECTRICAL SUBSTATION MV/LV
STAȚIA EXTERNE ELECTRICE IT/JT



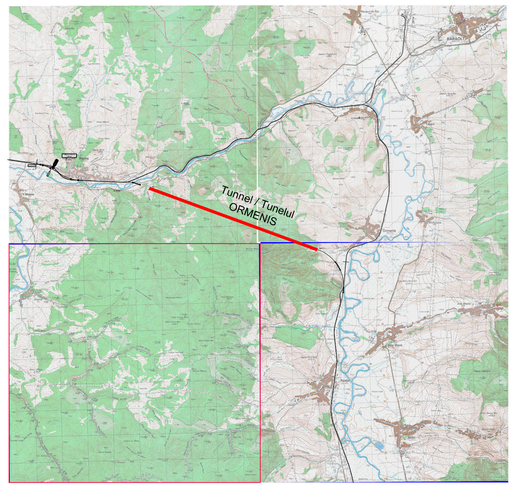
LEGEND NETWORKS/LEGENDA OBIECTIVE

	ON ETHERNET CABLE CAT 6 UTP/ON CABLU ETHERNET CAT 6 UTP
	ETHERNET FIBER OPTIC/ETHERNET FIBRA OPTICA
	CABLE FIBER OPTIC MULTIMODE/CABLU OPTIC FIBRA MULTIMOD
	BUS SYSTEMS ANTINTRUSION–ACCESS CONTROL/SISTEME BUS ANTI–EFRACȚIE –ACCES CONTROL
	WIRING DEVICES ANTINTRUSION–ACCESS CONTROL/DISPOZITIVE WIRING ANTI–EFRACȚIE–ACCES CONTROL
	RG59 CABLE FOR VIDEO SIGNALS/RG59 PRIN CABLU PENTRU SEMNALE VIDEO
	RS485 SERIAL NETWORK/RS485 SERIAL REȚEA

LEGEND SYMBOL/LEGENDA SIMBOLURI

	ACTIVE EQUIPMENT/ACTIVE UTILAJE SWITCH NODE /SWITCH NOD G GENERAL SWITCH TUNNEL NETWORK/SWITCH GENERALE TETEA DE TUNELUL P SWITCH TO CROSSROADS/SWITCH LA CROSSROADS
	PASSIVE SYSTEM PATCH/PASIV SISTEM PATCH R CABLE UTP CAT.6/CABLE UTP cat.6 O FIBER OPTIC CABLE (MULTIMODE AND–OR SINGLEMODE)/CABLU DE FIBRA OPTICA (MULTIMODE SI / SAU SINGLEMODE)
	COLOR FIXED CAMERA/CAMERĂ FIXA COLOR
	CAMERA COLOR PTZ /CAMERĂ CULORI PTZ D DOME – P PTZ
	INTERFACE I/O FIELD/INTERFACE I/O CÂMPUL
	SIGNAL CONVERTER: OPTICAL FIBER ELECTRICAL–MULTIMODE/SEMNAL CONVERTOR: ELECTRIC–MULTIMODE FIBRA OPTICA
A	ON/OFF ALARM POINT WITH BADGE/PUNCTUL ACTIVAREA– OPRITAL ALARMĂ CU BADGE
A	ACCESS CONTROL AND INTRUSION DETECTION UNIT/CENTRAL DE CONTROLUL ACCES SI DE DETECTIE A INTRUZIUNILOR
	VOLUMETRIC DUAL TECHNOLOGY SENSOR/SENSOR VOLUMETRICA DUBLA TEHNOL.
	STATE DOOR DETECTOR/DETECTOR STAT UȘĂ
EN4	ENCODER FOR N4 VIDEO INPUTS AND/OR A SERIAL INPUT WITH OUTPUT ETHERNET/ENCODER PENTRU N 4 INTRARI VIDEO SI/SAU A INPUT SERIAL CU REZULTATE ETHERNET
	CLIENT
	SERVER

GENERAL PLAN / PLANUL GENERAL



NOTE/NOTE:
– (*) CONNECTED TO THE EMERGENCY DATA NETWORK/CONECTAT LA RETEAUA DE DATE DE URGENTA
– (**) CONNECTED TO THE SAFE AREA EMERGENCY DATA NETWORK/CONECTAT LA RETEAUA DE DATE DE URGENTA DE PLATA
– (***) POWER SUPPLY Q_BT/QDB / SURSA DE ALIMENTARE Q_BT/QDB

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	Responsabil 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. Secțiune 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
Security systems/Sistem de securitate
Block Diagram Security systems: Intrusion, access control, video surveillance
Diagrama bloc Sistemul de securitate:efractie, control acces, supraveghere video

Codificare / Codification System: E A 5 1 | 0 1 | C | 1 0 | L X | T S | 1 0 | 1 | 2 | 0 0 8 | 0

Scara / Scale: -

LOT

Nr. / No: 3/3