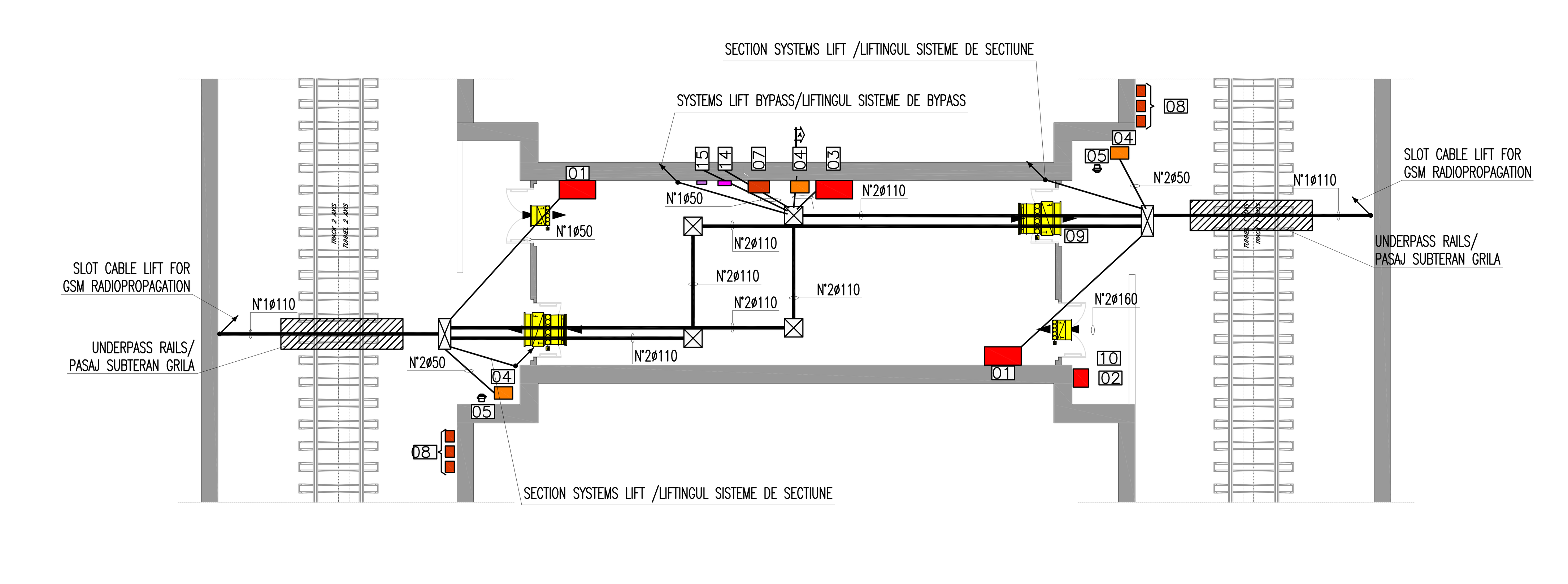
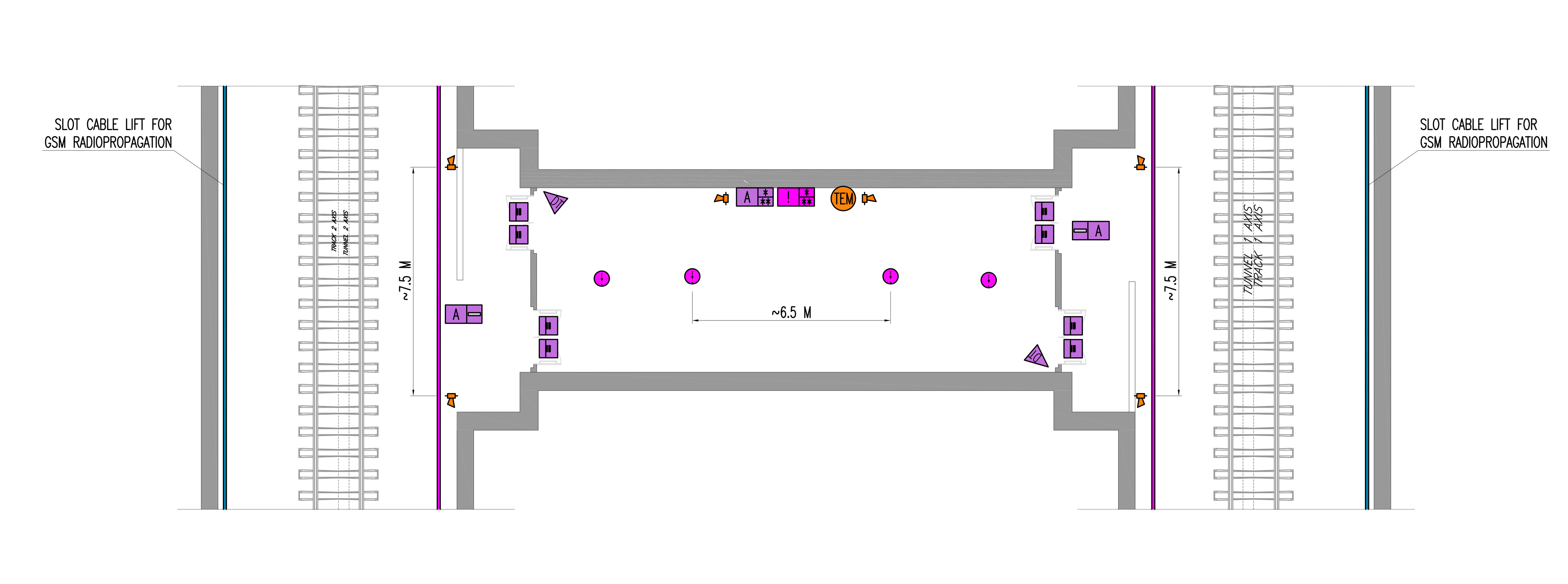
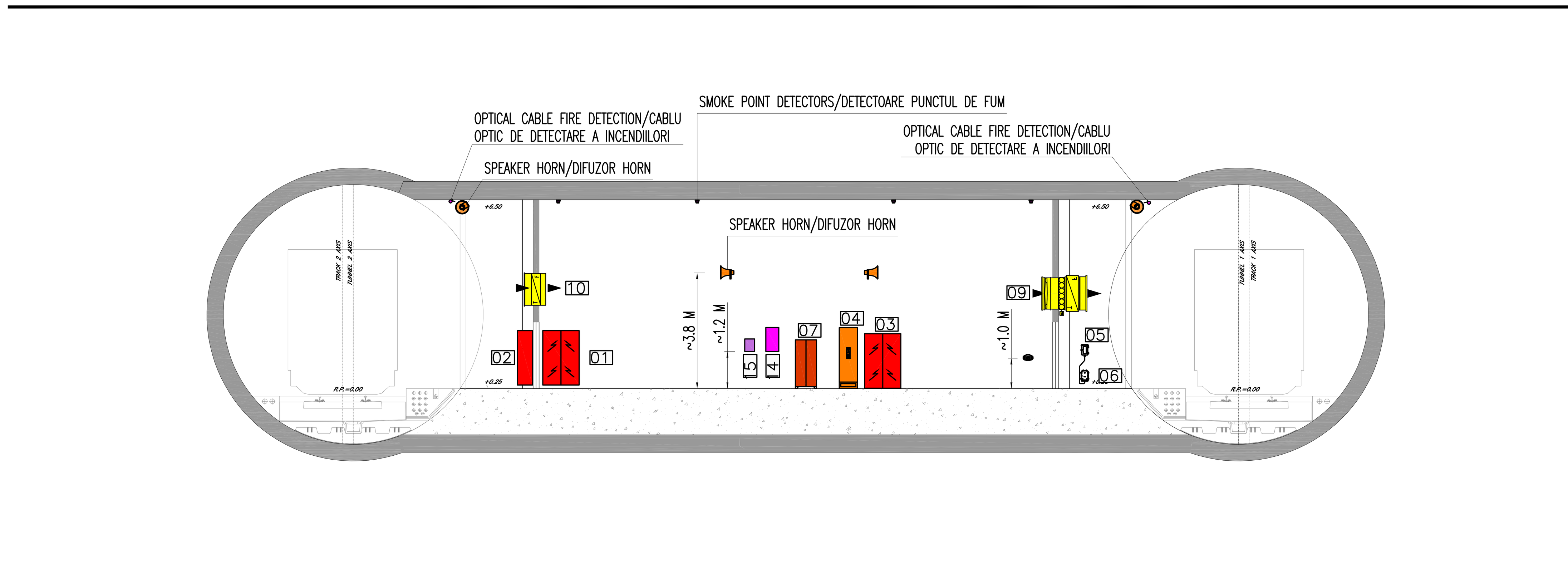
BY–PASS TYPOLOGICAL/TIPOLOGIC



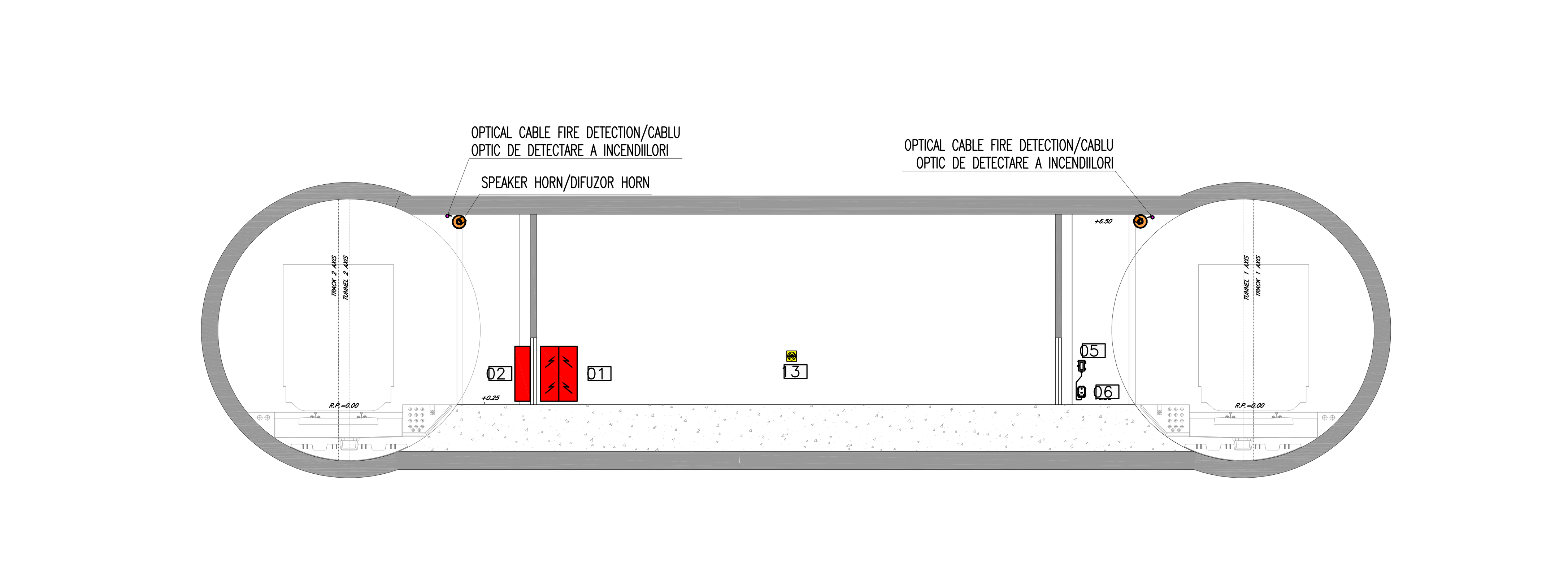
PLANT WITH ELECTRICAL AND DUCTS EQUIPMENTS/ PLANTE CU ECHIPAMENTE ELECTRICE ŞI CONDUCTE



PLANT WITH TT AND SECURITY SYSTEMS/PLANTE CU SISTEME TT ŞI SECURITATE

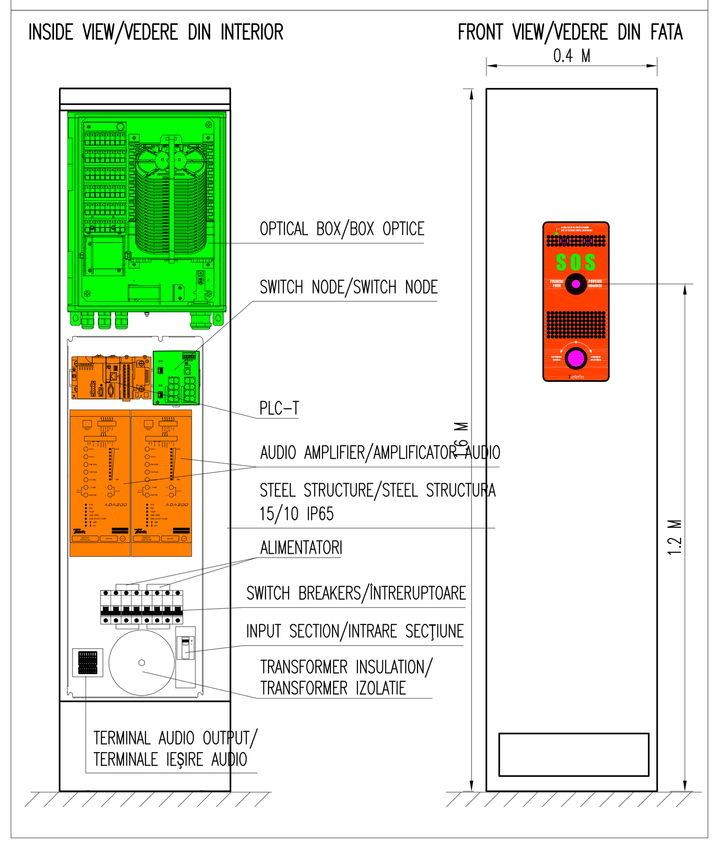


SECTION A–A WITH TT AND SECURITY SYSTEMS/SECTIUNE A–A CU SISTEME TT ŞI SECURITATE

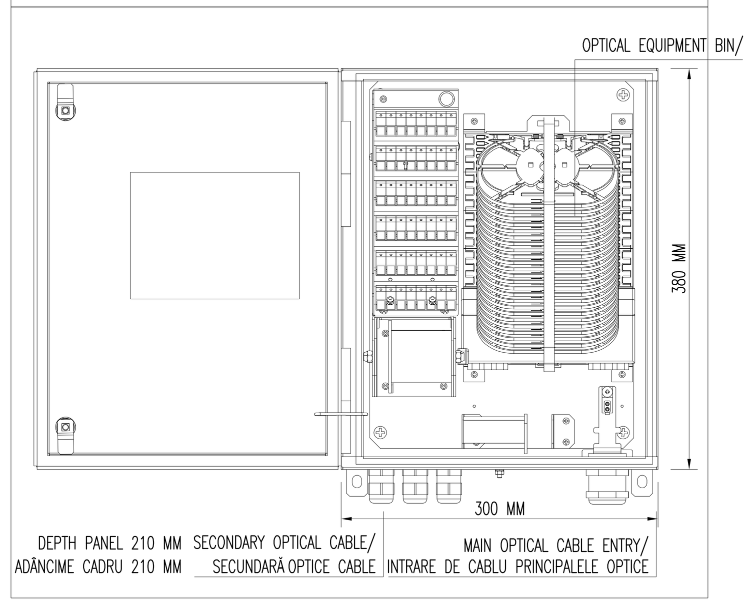


SECTION B–B WITH TT AND SECURITY SYSTEMS/SECTIUNE B–B CU SISTEME TT ŞI SECURITATE

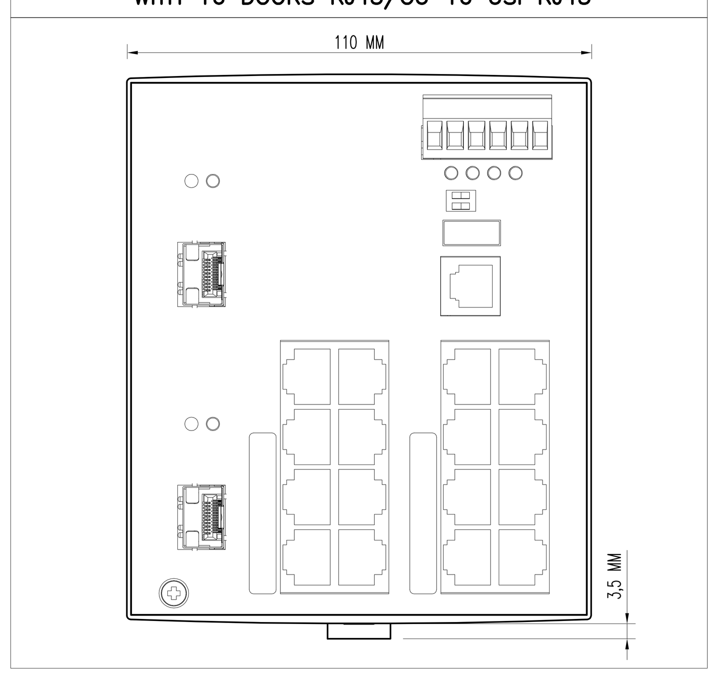
COLOUMN DETAILED/COLOANE DETALIU



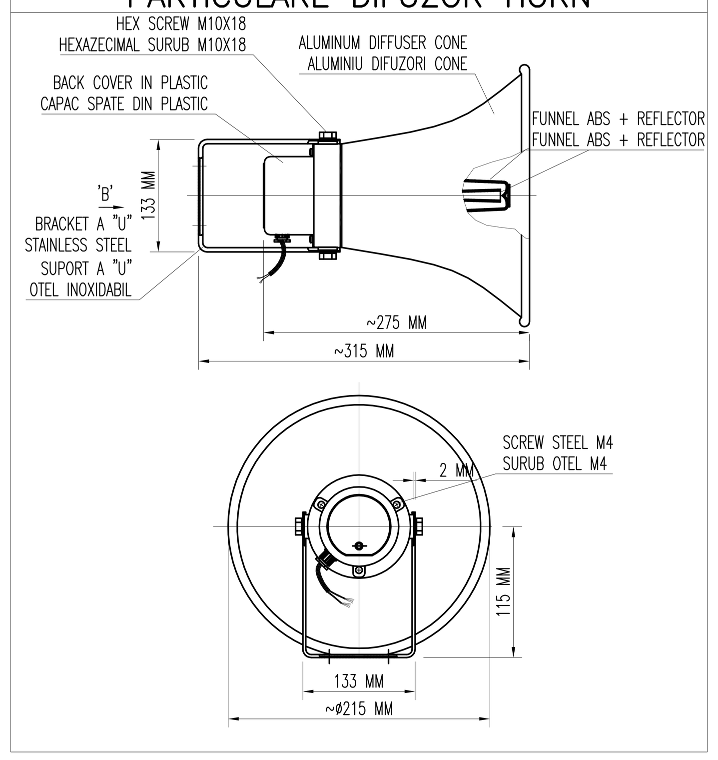
OPTICAL BOX DETAILED/BOXOPTICE DETALIU



PARTICULAR SWITCH NODE/PARTICULARE SWITCH NODE WITH 16 DOORS RJ45/CU 16 USI RJ45



PARTICULAR AUDIO SPEAKER HORN PARTICULARE DIFUZOR HORN



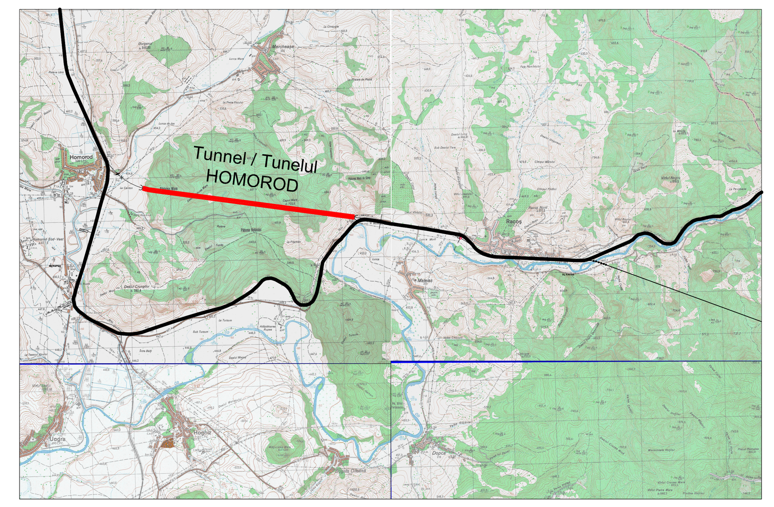
EQUIPMENT LEGEND/UTILAJE LEGENDA

01	PANEL OF SECTION QdT/CADRU DE SECTIUNE QdT
02	CABINET FOR COIL CABLE REEL/ROLA REEL CABINET
03	COLUMNS/COLOANE TEM/DS
04	TELEPHONE COLUMN TEM_DS/TELEFON COLOANA TEM_DS
05	TELEPHONE STSI/TELEFON STSI
06	BOX F.S. 3/10 / CASETA F.S. 3/10
07	CABINET CONTAINING FIRE EQUIPMENT/CABINET CONȚIN ECHIPAMENTE FOC
08	HYDRANT/HIDRANT
09	VENTILATION–PRESSURE BY–PASS/VENTILAȚIE–PRESIUNE BY–PASS: – AIR POWER GRID/GRILA AER – FIRE DAMPER/FOC AMORTIZOR – MOTORIZED DAMPER CONTROL/MOTORIZAT AMORTIZOR CONTROLUL – AXIAL FAN/VENTILATOR AXIAL
10	VENTILATION ADJUSTMENT–PRESSURE BY–PASS/CONTROLUL DE VENTILARE–PRESIUNE BY–PASS: – EXHAUST AIR GRILL/AERUL EVACUAT GRILA – FIRE DAMPER/FOC AMORTIZOR – MOTORIZED DAMPER CONTROL/MOTORIZAT AMORTIZOR CONTROLUL
11	SPACE PREPARATION FOR UMTS–GSM SYSTEMS/PREGĂTIREA SPAȚIU PENTRU SISTEME UMTS–GSM
12	SPACE PREPARATION FOR GSMR+STSI SYSTEMS/PREGĂTIREA SPAȚIU PENTRU SISTEME GSMR+STSI
13	FAN AXIAL FAN NICHE/VENTILATOR AXIAL VENTILATOR NIŞĂ
14	CENTRAL FIRE DETECTION/CENTRAL DE DETECTARE A INCENDIILOR
15	CENTRAL ACCESS CONTROL AND INTRUSION DETECTION CENTRAL CONTROL ACCES SI DE DETECTIE A INTRUZIUNILOR

SYMBOLS LEGEND/LEGENDA SIMBOLURI

	POLYETHYLENE FLEXIBLE PIPE FLOOR RECESSED/FURTUN POLIETILENA ÎNCASTRATE ETAJ
	WELL/BINE
	PIPELINE ASCENDING/PIPELINE ASCENDENTĂ
PMAE *	PERIPHERAL DEVICE/PERIFERIC DISPOZITIV MAE E – EMERGENCY LIGHT BUTTON/URGENȚĂ LUMINA BUTONULUI G – GENERAL LIGHTING LAMPS/ILUMINAT GENERAL LAMPI R – LAMPS OF REFERENCE BYPASS–NICHE/LĂMPI DE REFERINȚĂ BYPASS–NISA
	N°2 SOCKETS 230 V FOR FIRE BRIGADE/N°2 PRIZE 230 V PENTRU POMPIERI
	PULSANTE CON LAMPADA SPIA
	PULSANTE CON LAMPADA SPIA IN NICCHIONI
	LIGHT FIXTURES 1X18 W EMERGENCY LIGHTING/PROGRAME DE LUMINĂ 1X18 W ILUMINAT DE URGENȚĂ
	LIGHT FIXTURES 1X18 W REFERENCE LIGHTING/PROGRAME DE LUMINĂ 1X18 W ILUMINAT DE REFERINȚĂ
	LIGHT FIXTURES 1X18 W GENEREAL LIGHTING/PROGRAME DE LUMINĂ 1X18 W ILUMINAT GENERAL
	JUNCTION BOX TYPE A/JUNCTION BOX TIPE A
	JUNCTION BOX TYPE B/JUNCTION BOX TIPE B
	EMERGENCY EXIT SIGN/INSCRIERE IEŞIRE DE URGENȚĂ
	EMEMRGENCY TELEPHONE SIGN/INSCRIERE TELEFON DE URGENȚĂ
	FILTER MASKS SIGN/INSCRIERE MASTI FILTRU
	BUTTON EMERGENCY LIGHTS SIGN/INSCRIERE URGENȚĂ BUTTON LUMINI
	HYDRANT SIGN/INSCRIERE HIDRANT
PRESA	ELECTRICAL PLUG TO RESCUE TEAMS/PRIZĂ ELECTRICĂ PENTRU A SALVA
	EMERGENCY EQUIPMENT TO RESCUE TEAMS/ECHIPAMENT DE URGENȚĂ PENTRU A SALVA
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
	DUAL TECHNOLOGY DETECTORS/DETECTOARE DUAL TEHNOLOGIE
	STATE DOOR DETECTOR/DETECTOR STAT UŞĂ
	SMOKE DETECTION SENSOR/DETECTIE FUM SENSOR
I **	CENTRAL LOCAL TECHNICAL FIRE DETECTION–BYPASS–NICHE/CENTRAL TEHNIC LOCAL DE DETECTARE A INCENDIILOR–BYPASS–DE NISA
	SPEAKER HORN WITH POWER P=10 W/DIFUZOR HORN CU PUTERE P=10
TEM	TELEPHONE COLUMN TEM_DS/TELEFON COLOANA TEM_DS

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

CLIENT / CLIENT — C.N.C.F. "C.F.R." - S.A.

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	Şef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Tunel Expert Tunnel Expert	C. Gambelli		
Intocmit Elaborated	Proiectant Designer	P. Amodio		

SUBCONSULTANT / SUBCONSULTANT

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	
Intocmit Elaborated	Proiectant Designer	

Reabilitarea liniei de cale ferata Braşov - 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 Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h. Section 1 Brasov - Sighisoara

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

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

Denumire desen / Drawing Title : **TUNNEL/TUNELUL HOMOROD**
NATURAL TUNNEL/TUNELUL NATURAL
Radiocommunication systems/Sisteme radio
Local technological Layout and characteristic sections in tunnel radiocommunication and security system
Plan de situatie tehnologice şi secțiuni caracteristicile in tunelul Sistem radio si de securitate

Codificare / Codification System — Scara / Scale: - — LOT — Nr. / No 2/2

E A 5 1 | 0 1 | C | 1 2 | L X | T S | 2 0 | 6 | 4 | 0 1 7 | 0