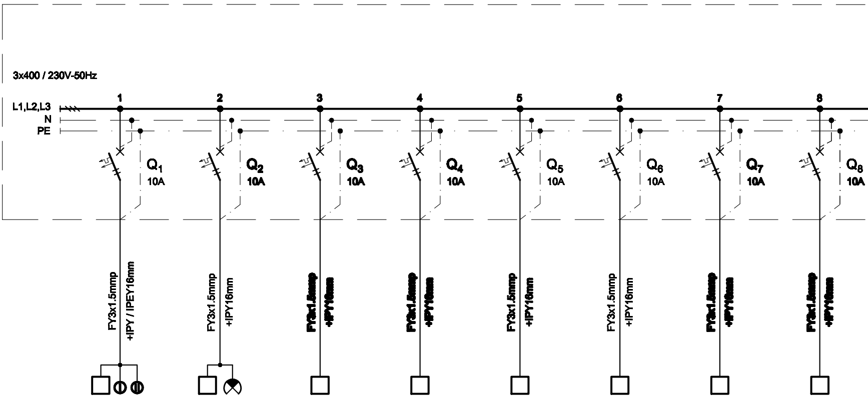
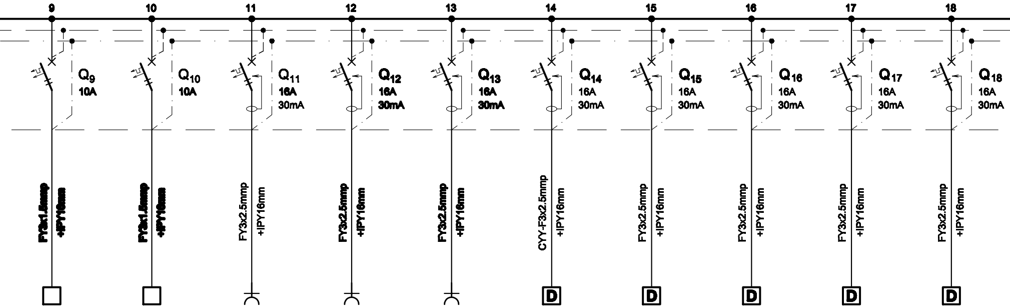
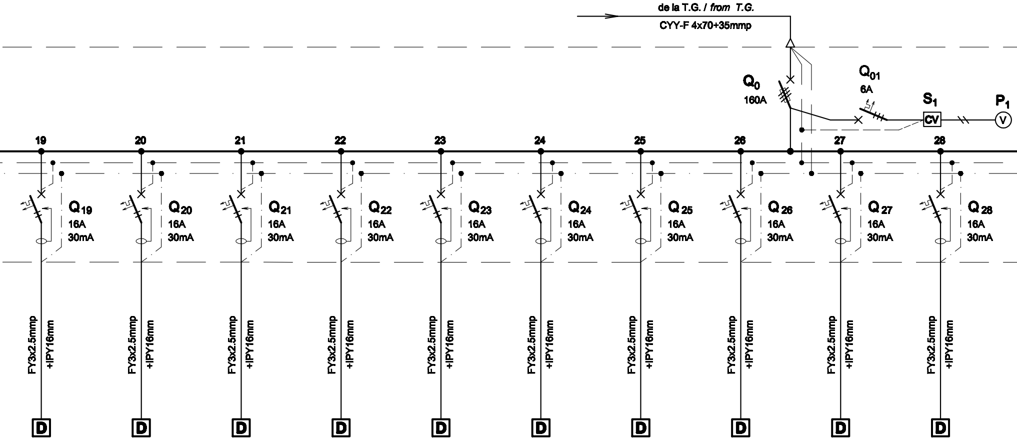
TABLOU ELECTRIC FLOOR T.E. - SCHEMA MONOFILARA
T.E. FIRST FLOOR ELECTRIC BOARD - SINGLE-WIRE DIAGRAM


3x400 / 230V-50Hz
L1,L2,L3
N
PE
1
2
3
4
5
6
7
8
Q1 10A
Q2 10A
Q3 10A
Q4 10A
Q5 10A
Q6 10A
Q7 10A
Q8 10A
FY3x1.5mmp +IPY / IPEY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm
FY3x1.5mmp +IPY16mm

Nr. circuit ***Circuit number***	1	2	3	4	5	6	7	8
Pi [kW]	1.17	1.06	1.2	1.2	1.2	1.3	0.9	1.1
Destinatia ***Destination***	GRUP SANITAR BARBATI, GRUP SANITAR FEMEI, GRUP SANITAR PERS. CU DISABILITATI, VESTIAR FEMEI, VESTIAR BARBATI, HOL ***MEN TOILET, WOMEN TOILET, TOILET FOR THE DISABLED, WOMEN LOCKER ROOM , MEN LOCKER ROOM, HALLWAY*** 20LL / *Lamps*	BIROU INTRETINERE, CAMERA DE ODIHNA *MAINTENANCE OFFICE, LOUNGE ROOM* 11LL / *Lamps*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 12LL / *Lamps*	**CAMERA DIAGNOSTIC** ***DIAGNOSTIC ROOM*** **12LL / *Lamps***	CAMERA DIAGNOSTIC ***DIAGNOSTIC ROOM*** **12LL / *Lamps***	CAMERA DE PREGATIRE ***TRAINING ROOM*** 13LL / *Lamps*	RESPONSABIL TRAFIC, CAMERA DE CRIZA, ANEXA ***TRAFFIC RESPONSIBLE OFFICE, CRISIS ROOM, ANNEX*** **9LL / *Lamps***	CAMERA DE CONTROL *CONTROL ROOM* 11LL / *Lamps*

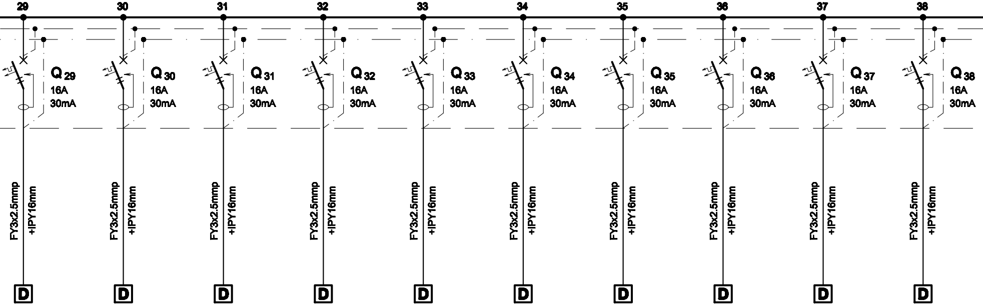

9
10
11
12
13
14
15
16
17
18
Q_9
10A
Q_{10}
10A
Q_{11}
16A
30mA
Q_{12}
16A
30mA
Q_{13}
16A
30mA
Q_{14}
16A
30mA
Q_{15}
16A
30mA
Q_{16}
16A
30mA
Q_{17}
16A
30mA
Q_{18}
16A
30mA
FY3x1.5mmp
+IPY16mm
FY3x1.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
CYY-F3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
D
D
D
D
D

9	**10**	**11**	**12**	**13**	14	**15**	**16**	**17**	**18**
1.2	**1.2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
CAMERA DE CONTROL **CONTROL ROOM** **12LL / *Lamps***	**CAMERA DE CONTROL** ***CONTROL ROOM*** **12LL / *Lamps***	BIROU INTRETINERE, CAMERA DE ODIHNA, HOL *MAINTENANCE OFFICE, LOUNGE ROOM, HALLWAY* **6LP / *Sockets outlet***	CAMERA DE PREGATIRE, RESPONSABIL TRAFIC, CAMERA DE CRIZA *TRAINING ROOM, TRAFFIC RESPONSIBLE OFFICE, CRISIS ROOM* **6LP / *Sockets outlet***	CAMERA DE CONTROL, CIRCULATIE, CAMERA DIAGNOSTIC *CONTROL ROOM, CIRCULATION. DIAGNOSTIC ROOM* **7LP / *Sockets outlet***	BIROU INTRETINERE *MAINTENANCE OFFICE* **4LP / *Sockets outlet***	CAMERA DE PREGATIRE *TRAINING ROOM* **4LP / *Sockets outlet***	CAMERA DE PREGATIRE *TRAINING ROOM* **4LP / *Sockets outlet***	CAMERA DE PREGATIRE *TRAINING ROOM* **4LP / *Sockets outlet***	CAMERA DE PREGATIRE *TRAINING ROOM* **4LP / *Sockets outlet***

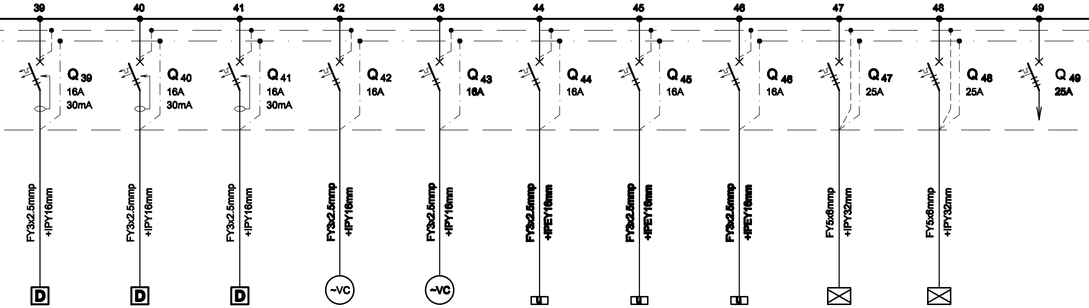

de la T.G. / *from T.G.*
CYY-F 4x70+35mmp
Q_0
160A
Q_{01}
6A
S_1
CV
P_1
V
19
20
21
22
23
24
25
26
27
28
Q_{19} 16A 30mA
Q_{20} 16A 30mA
Q_{21} 16A 30mA
Q_{22} 16A 30mA
Q_{23} 16A 30mA
Q_{24} 16A 30mA
Q_{25} 16A 30mA
Q_{26} 16A 30mA
Q_{27} 16A 30mA
Q_{28} 16A 30mA
FY3x2.5mmp
+IPY16mm
D

19	20	21	22	23	24	25	26	27	28
2	2	2	2	2	2	2	2	2	2
RESPONSABIL TRAFIC *TRAFFIC RESPONSIBLE OFFICE* 4LP / *Sockets outlet*	CAMERA DE CRIZA *CRISIS ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*

Pi = 132.281kW
Pc = 80kW


29
30
31
32
33
34
35
36
37
38
Q 29
16A
30mA
Q 30
16A
30mA
Q 31
16A
30mA
Q 32
16A
30mA
Q 33
16A
30mA
Q 34
16A
30mA
Q 35
16A
30mA
Q 36
16A
30mA
Q 37
16A
30mA
Q 38
16A
30mA
FY3x2.5mmp
+IPY16mm
D

29	30	31	32	33	34	35	36	37	38
2	2	2	2	2	2	2	2	2	2
CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DE CONTROL *CONTROL ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*

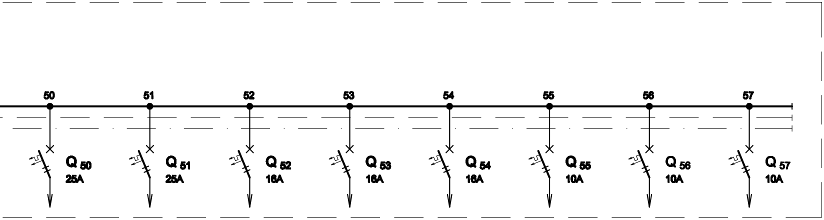

39
40
41
42
43
44
45
46
47
48
49
Q 39
16A
30mA
Q 40
16A
30mA
Q 41
16A
30mA
Q 42
16A
Q 43
16A
Q 44
16A
Q 45
16A
Q 46
16A
Q 47
25A
Q 48
25A
Q 49
25A
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPEY16mm
FY3x2.5mmp
+IPEY16mm
FY3x2.5mmp
+IPEY16mm
FY5x6mmp
+IPY32mm
FY5x6mmp
+IPY32mm
D
D
D
~VC
~VC

39	40	41	42	43	44	45	46	47	48	49
2	2	2	1.207	1.214	2	2	2	8	8	4
CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	CAMERA DIAGNOSTIC *DIAGNOSTIC ROOM* 4LP / *Sockets outlet*	**ALIMENTARE VENTILOCONVECTOARE** ***FAN COIL SUPPLY*** **10Buc. / *Pieces***	**ALIMENTARE VENTILOCONVECTOARE** ***FAN COIL SUPPLY*** **10Buc. / *Pieces***	**USCATOR DE MAINI** ***HAND DRYER*** **1Buc. / *Piece***	**USCATOR DE MAINI** ***HAND DRYER*** **1Buc. / *Piece***	**USCATOR DE MAINI** ***HAND DRYER*** **1Buc. / *Piece***	**MICROCENTRALA ELECTRICA DE TRATARE PENTRU AERUL DE PLAFON** ***MICRO ELECTRIC BOILING OF TREATMENT FOR THE AIR OF CEILING***	**MICROCENTRALA ELECTRICA DE TRATARE PENTRU AERUL DE PLAFON** ***MICRO ELECTRIC BOILING OF TREATMENT FOR THE AIR OF CEILING***	REZERVA TRIFAZATA *THREE-PHASE RESERVE*

TA

T.E. FI

Nr. *No.*	Simbol *Symbol*
0	1
1	Q0
2	Q1,...,Q10
3	Q11,...,Q41
4	Q42,...,Q46,Q52, Q53,Q54
5	Q47,Q48,Q49
6	Q50,Q51
7	Q55,Q56,Q57
8	Q01
9	P1
10	S1
11	-


50
51
52
53
54
55
56
57
Q 50
25A
Q 51
25A
Q 52
16A
Q 53
16A
Q 54
16A
Q 55
10A
Q 56
10A
Q 57
10A

50	51	52	53	54	55	56	57
3	3	2	2	2	1	1	1
REZERVA MONOFAZATA ***SINGLE-PHASE RESERVE***	REZERVA MONOFAZATA *SINGLE-PHASE RESERVE*	**REZERVA MONOFAZATA** ***SINGLE-PHASE RESERVE***	**REZERVA MONOFAZATA** ***SINGLE-PHASE RESERVE***	REZERVA MONOFAZATA *SINGLE-PHASE RESERVE*	**REZERVA MONOFAZATA** ***SINGLE-PHASE RESERVE***	**REZERVA MONOFAZATA** ***SINGLE-PHASE RESERVE***	**REZERVA MONOFAZATA** ***SINGLE-PHASE RESERVE***

ABLOU ELECTRIC ETAJ T.E. - SPECIFICATIE DE APARATAJ
RST FLOOR ELECTRIC BOARD - EQUIPMENT SPECIFICATION

Denumirea aparatului ***Equipment denomination***	**Caracteristici tehnice** ***Technical data***	**Buc.** ***Pcs.***	**Observatii** ***Remarks***
2	**3**	**4**	**5**
Separator de sarcina tripolar cu fuzibil / *Three-poles switch-disconnector with fusible*	**In=160A** **Un=400V** **Uimp=6kV** **f=50Hz** **Icm=2.2kA**	1	
Intrerupator automat bipolar, curba B *Two-poles circuit breaker, curve B*	**In=10A** **Un=230V** **Icu=6kA** **f=50Hz**	10	
Intrerupator automat bipolar cu protectie la curent diferential rezidual, curba C / *Two-poles circuit breaker with protection at residual differential current device, curve C*	**In=16A** **Un=230V** **Icu=6kA** **f=50Hz** **IΔn=0,03A** **Tip A** **Nivel de imunitate 250A la forma de unda 8/20 µS** *Level of immunity 250A to wave form 8/20µS*	31	
Intrerupator automat bipolar, curba C *Two-poles circuit breaker, curve C*	In=16A Un=230V Icu=6kA f=50Hz	8	
Intrerupator automat tripolar, curba C *Three-poles circuit breaker, curve C*	In=25A Un=400V Icu=6kA f=50Hz	3	
Intrerupator automat bipolar, curba C *Two-poles circuit breaker, curve C*	In=25A Un=230V Icu=6kA f=50Hz	2	
Intrerupator automat bipolar, curba C *Two-poles circuit breaker, curve C*	In=10A Un=230V Icu=6kA f=50Hz	3	
Intrerupator automat tripolar, constructie modulara, curba C *Three-poles circuit breaker, modular construction, curve C*	In=6A Un=400V Icu=25kA f=50Hz	1	
Voltmetru feromagnetic *Ferromagnetic voltmeter*	Domeniu / *Range* 0...600 V	1	
Comutator voltmetric *Voltmetric switch*	In=10A Un=500Vca f=50Hz	1	
Cutie / *Box*	IP30, Clasa I / *Class I*	1	

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

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	12.2011	
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli	12.2011	
Verificat Checked	Expert Verificator Checking Expert	G. Fioravanti	12.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	12.2011	
Întocmit Elaborated	Proiectant Designer	D. Matei	12.2011	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Braşov - Sighişoara
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 : Braşov - Sighişoara

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

Faza / Phase:
D.E. / E.D.

Denumire desen / Drawing Title :

Tablou electric etaj T.E. - Centru operațional de comandă;
Operational command center - T.E. first floor electric board

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr. / No 01 / 01

E A 5 1 0 1 E 0 1 B X I E 0 0 1 9 0 1 7 1

A3(297x2520)