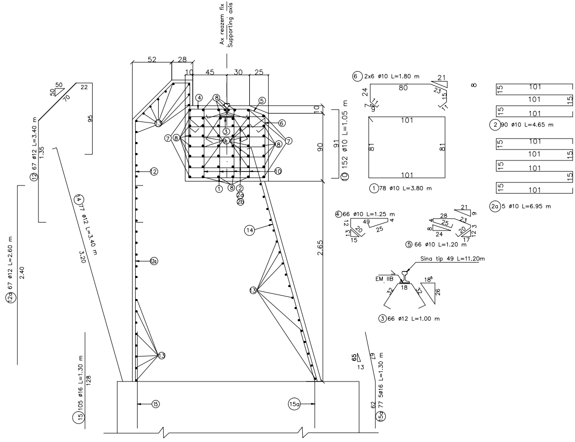
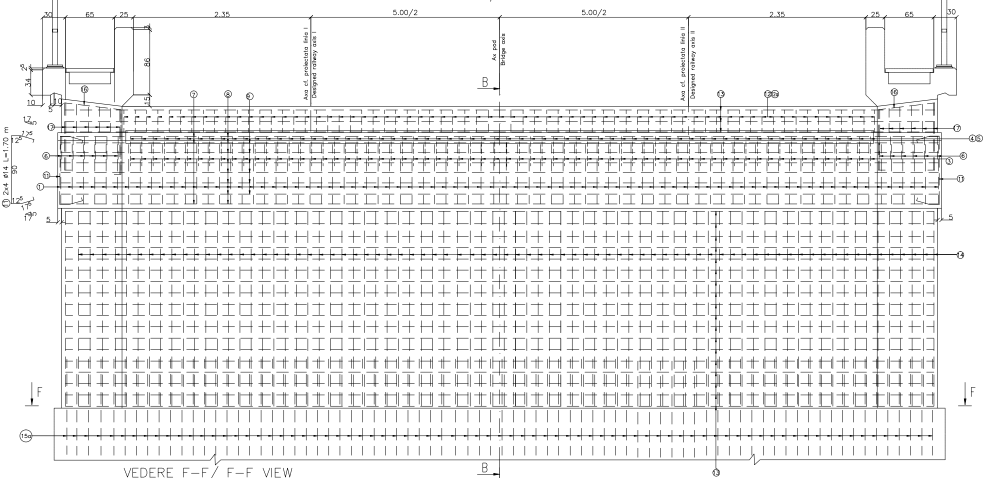
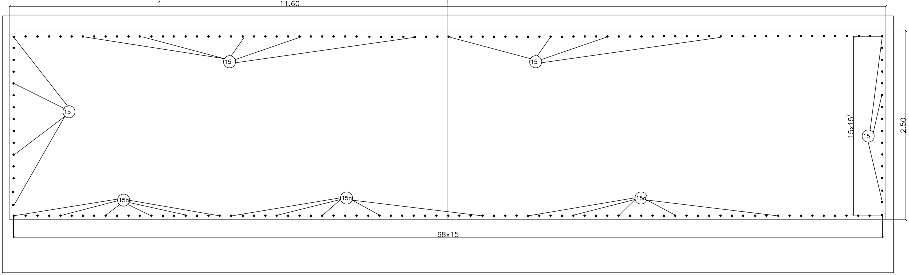
SECTIUNE TRANSVERSALA B–B
B–B CROSS SECTION


Ax reazem fix
Supporting axis
52
28
10
45
30
25
10
90
91
2.65
⑩ 152 ø10 L=1.05 m
⑥ 2x6 ø10 L=1.80 m
① 78 ø10 L=3.80 m
② 90 ø10 L=4.65 m
②a 5 ø10 L=6.95 m
④ 66 ø10 L=1.25 m
⑤ 66 ø10 L=1.20 m
Sina tip 49 L=11.20m
EM IIB
③ 66 ø12 L=1.00 m
⑫ 67 ø12 L=3.40 m
1.35
⑫a 67 ø12 L=2.60 m
2.40
⑭ 77 ø12 L=3.40 m
3.20
⑮ 105 ø16 L=1.30 m
128
⑮a 77 5ø16 L=1.30 m
62
67
65
13
⑬
⑮
⑮a
⑭
⑫
②a
⑦
⑧
⑨
②b
80
24
21
23
15
11
7
9
101
81
50
70
22
95
49
25
20
12
13
4
28
8
24
17
3
18
32
26
18⁵

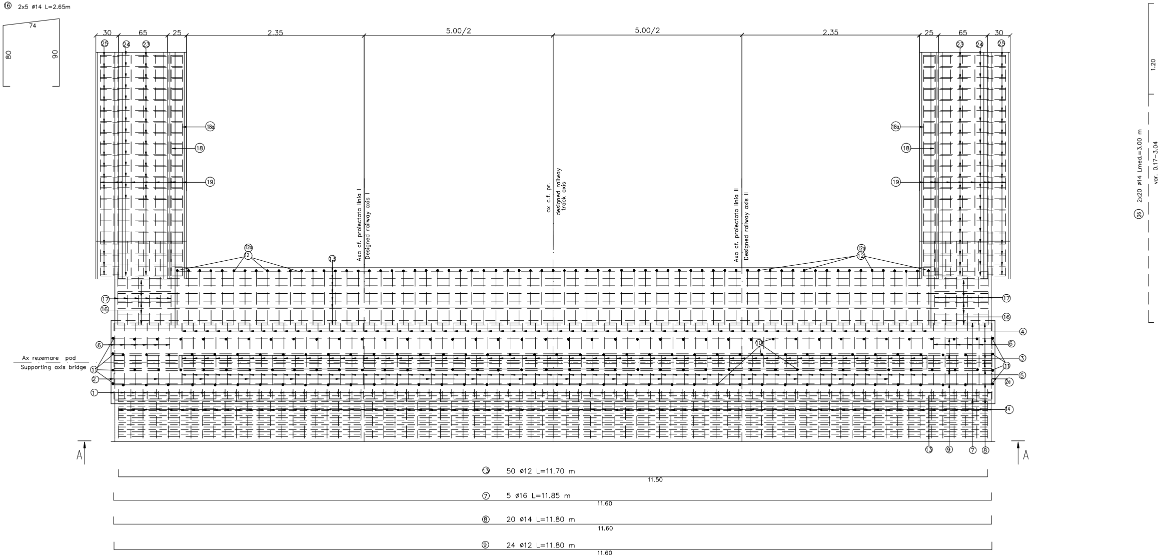
ELEVATIE A–A / A–A ELEVATION


30
65
25
2.35
5.00/2
5.00/2
2.35
25
65
30
86
15
2⁵
34
10
10
5
Axa cf. proiectata linia I
Designed railway axis I
Ax pod
Bridge axis
Axa cf. proiectata linia II
Designed railway axis II
B
16
7
8
9
13
12 12a
16
17
17
4 5
6
6
3
11
11
1
1
17⁵
12⁵
17⁵
12⁵
17⁵
17⁵
5
5
11 2x4 ø14 L=1.70 m
90
14
15a
13
B
F
F

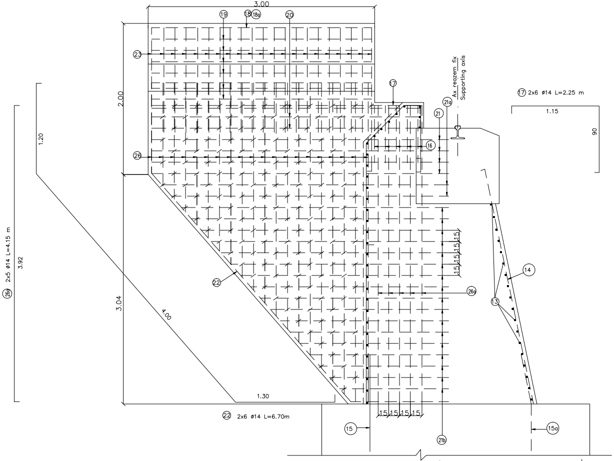
VEDERE F–F/ F–F VIEW


11.60
15
15
15
15
15x15⁷
2.50
15a
15a
15a
68x15

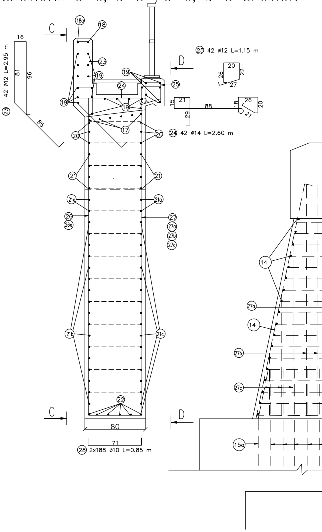
VEDERE IN PLAN / PLAN VIEW

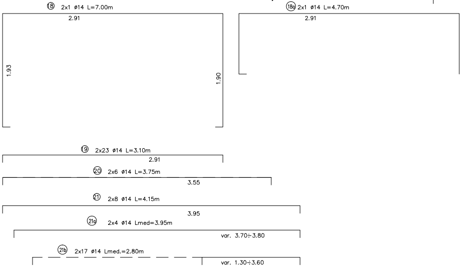

⑯ 2x5 ø14 L=2.65m
74
80
90
30
65
25
2.35
5.00/2
5.00/2
2.35
25
65
30
㉕
㉔
㉓
18a
18
19
12a
12
13
Axa cf. proiectata linia I
Designed railway axis I
ax c.f. pr.
designed railway track axis
Axa cf. proiectata linia II
Designed railway axis II
17
16
6
Ax rezemare pod
Supporting axis bridge
11
2
1
4
10
3
5
2a
14
⑬
⑨
⑦
⑧
A
A
1.20
㉖ 2x20 ø14 Lmed.=3.00 m
var. 0.17–3.04
⑬ 50 ø12 L=11.70 m
11.50
⑦ 5 ø16 L=11.85 m
11.60
⑧ 20 ø14 L=11.80 m
11.60
⑨ 24 ø12 L=11.80 m
11.60

VEDERE C–C/ C–C VIEW

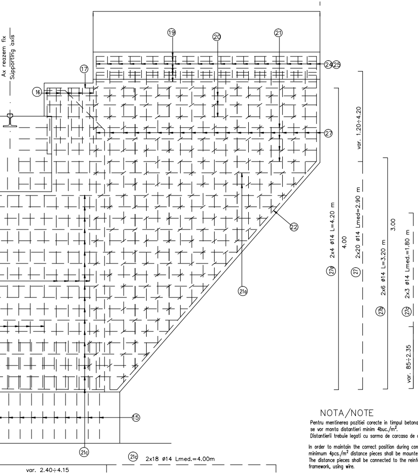

3.00
19
18 18a
20
23
2.00
1.20
26
26a 2x5 ø14 L=4.15 m
3.92
3.04
4.00
22
1.30
17
21a
21
Ax reazem fix
Supporting axis
16
15
15
15
15
26a
14
13
15 15 15 15
15
21b
15a
17 2x6 ø14 L=2.25 m
1.15
90
22 2x6 ø14 L=6.70m

SECTIUNE C–C, D–D /C–C, D–D SECTION


C
C
D
D
18a
18
16
23 42 ø12 L=2.95 m
81
96
85
23
19
19
19
24
19
25
19
17
20
20
21
21
21a
21a
26
26a
27
27a
27b
27c
21b
21c
22
80
71
28 2x188 ø10 L=0.85 m
25 42 ø12 L=1.15 m
20
26
22
27
15
21
29
88
18
26
20
21
24 42 ø14 L=2.60 m
14
27a
14
27b
27c
15a


18 2x1 ø14 L=7.00m
2.91
1.93
1.90
18a 2x1 ø14 L=4.70m
2.91
19 2x23 ø14 L=3.10m
2.91
20 2x6 ø14 L=3.75m
3.55
21 2x8 ø14 L=4.15m
3.95
21a 2x4 ø14 Lmed=3.95m
var. 3.70÷3.80
21b 2x17 ø14 Lmed.=2.80m
var. 1.30÷3.60

VEDERE D-D/ D-D VIEW


Ax reazem fix
Supporting axis
19
20
21
17
16
24
25
27
22
21a
21c
15
var. 1.20÷4.20
2x4 ø14 L=4.20 m
27a
4.00
2x20 ø14 Lmed=2.90 m
27
2x6 ø14 L=3.20 m
27b
3.00
2x3 ø14 Lmed.=1.80 m
27c
var. 85÷2.35
2x18 ø14 Lmed.=4.00m
var. 2.40÷4.15

NOTA/NOTE

Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m².
Distantierii trebuie legati cu sarma de carcasa de armatura.

In order to maintain the correct position during concreting, minimum 4pcs./m² distance pieces shall be mounted.
The distance pieces shall be connected to the reinforcing framework, using wire.

EXTRAS DE ARMATURA PENTRU O CULEE
REINFORCEMENT FOR ONE ABUTMENT

Marca	Ø	Buc	Lung/buc(m)	S355			S345
				Ø10	Ø12	Ø14	Ø16
1	10	78	3,80	296,40			
2	10	90	4,65	418,50			
2a	10	5	5,80	29,00			
3	12	66	1,00		66,00		
4	10	66	1,25	82,50	0,00		
5	10	66	1,20	79,20			
6	10	12	1,80	21,60			
7	16	5	11,85				59,25
8	14	20	11,80			236,00	
9	12	24	11,80		283,20		
10	10	152	1,05	159,60			
11	14	8	1,70			13,60	
12	12	67	3,40		227,80		
12a	12	67	6,50		174,20		
13	12	50	11,70		585,00		
14	12	77	3,40		261,80		
15	16	105	1,30				136,50
15a	16	77	1,30				100,10
16	14	10	2,65			26,50	
17	14	12	2,25			27,00	
18	14	2	7,00			14,00	
18a	14	2	4,70			9,40	
19	14	46	3,10			142,60	
20	14	12	3,75			45,00	
21	14	16	4,15			66,40	
21a	14	8	Lmed=3,95			31,60	
21b	14	34	Lmed=2,80			95,20	
21c	14	36	Lmed=4,00			144,00	
22	14	12	6,70			80,40	
23	12	42	2,95		123,90		
24	12	42	2,55		107,10		
25	12	42	1,15		48,30		
26	14	40	Lmed=3,00			120,00	
26a	14	10	4,15			41,50	
27	14	40	Lmed=2,90			116,00	
27a	14	8	4,20			33,60	
27b	14	12	3,20			38,40	
27c	14	6	Lmed=1,80			10,80	
28	10	380	0,85	323,00			
LUNGIMI/Ø (m)				1409,80	1877,30	1292,00	295,85
GREUTATI/ML (kg)				0,617	0,888	1,208	1,578
GREUTATI/Ø				870	1667	1561	467
GREUTATI PE TIP DE OTEL (kg)				4098			467
PIERDERI 5% (kg)				230			
GREUTATE TOTALA CULEE (kg)				4795 rot. 4800			

TOTAL 2 CULEI /TOTAL 2 ABUTMENTS : 2 x 4800kg=9600kg

Beton armat/Reinforced concrete:	- C35/45 bancheta, zid de garda/ bench,wall guard - C25/30 elevatie, ziduri intoarse/ elevation, reverted walls
Armatura / reinforcement:	-S355 (PC 52; ø10-ø14) -S345 (PC 52; ø16)
Strat de acoperire/concrete cover	- min. 4cm expunere in aer/air exposed

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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 EURO
EUROPEAN UNION FINANCED PR

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 Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

AREX Lider COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	01.2012	
Întocmit Elaborated	Proiectant Designer	Mihai Ady Nicolae	01.2012	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia 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 :

STATIA / STATION: FELDIOARA
POD/BRIDGE Km.192+526.157 L=10.00m
PLAN ARMARE CULEI TABLIER 2
ABUTMENTS REINFORCEMENT DECK 2 PLAN

Codificare / Codification System	Scara / Scale 1:25	LOT / LOT	Nr. / No 01 / 01

EA51 01 E 07 BC PV 00 7 2 013 0