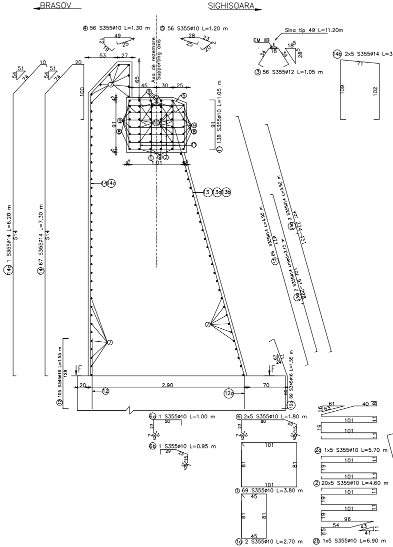
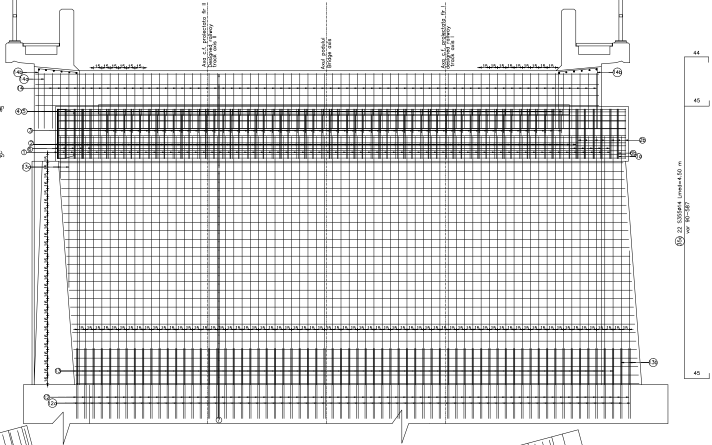
SECTIUNE TRANSVERSALA B–B
B–B SECTION CROSS SECTION
Scara/Scale 1:25

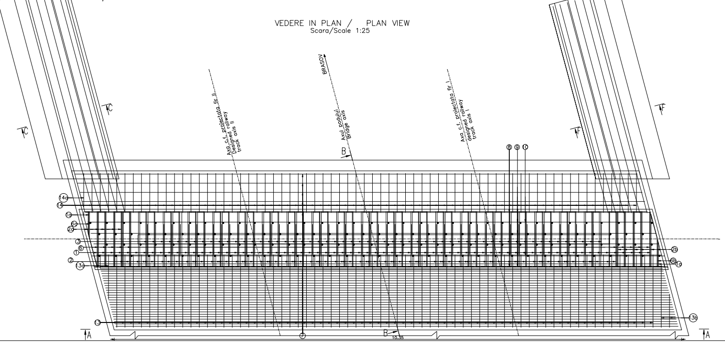

BRASOV
SIGHISOARA
④ 56 S355ø10 L=1.30 m
⑤ 56 S355ø10 L=1.20 m
Axa de rezemare
Supporting axis
EM IIB
Sina tip 49 L=11.20m
③ 56 S355ø12 L=1.05 m
⑭b 2x5 S355ø14 L=3.05 m
⑪ 138 S355ø10 L=1.05 m
⑭a 1 S355ø14 L=6.20 m
⑭ 67 S355ø14 L=7.30 m
⑬ 66 S355ø14 L=4.95 m
⑬a 2 S355ø14 Lmed=2.15 m var 91–298
⑬b 2 S355ø14 L=3.50 m var 224–431
⑫ 105 S345ø16 L=1.55 m
⑫a 69 S345ø16 L=1.55 m
2.90
1.01
⑥a 1 S355ø10 L=1.00 m
⑥b 1 S355ø10 L=0.95 m
⑥ 2x5 S355ø10 L=1.80 m
① 69 S355ø10 L=3.80 m
①a 2 S355ø10 L=2.70 m
②a 1x5 S355ø10 L=5.70 m
② 20x5 S355ø10 L=4.60 m
②b 1x5 S355ø10 L=6.90 m

Beton: Concrete:	– C30/37 suprastructura/superstructure
Tipul grinzilor: Beams type:	– grinzi metalice sudate/steel welded girders
Otel pentru grinzi: Steel for the beams:	– (OL 37–EP) $S275J_3G_3$ (EN 10025/2004)
Armatura: Reinforcement:	– S355;S345
Strat de acoperire: Concrete cover	– min. 4cm expunere in aer/air exposed

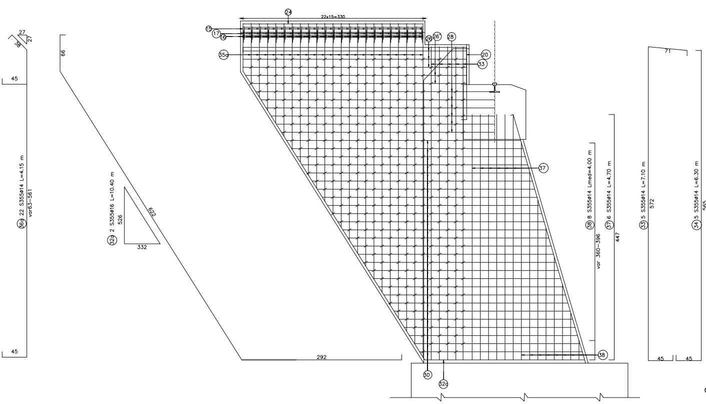
ELEVATIE A–A/ A–A ELEVATION
Scara/Scale 1:25

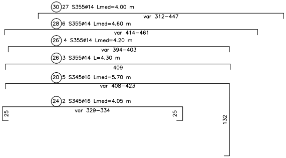

Axa c.f. proiectata fir II
Designed railway track axis II
Axul podului
Bridge axis
Axa c.f. proiectata fir I
designed railway track axis I
④⑤ 2x4 S355ø14 L=1.70 m
㉟a 22 S355ø14 Lmed=4.50 m var 90–587
44
45
45

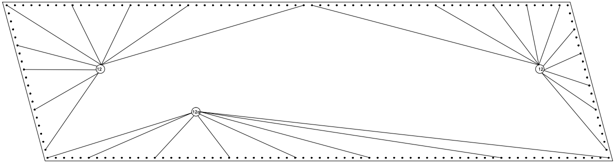
VEDERE IN PLAN / PLAN VIEW
Scara/Scale 1:25


BRASOV
Axa c.f. proiectata fir II
Designed railway track axis II
Axul podului
Bridge axis
Axa c.f. proiectata fir I
designed railway track axis I
B
A
C
F
10.35

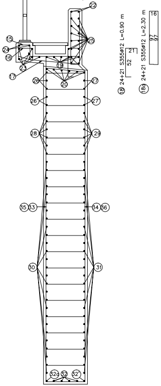
VEDERE D–D/ D–D VIEW
Scara/Scale 1:25

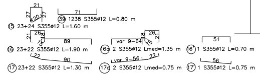

24
22x15=330
15
17
16
26
26'
28
35a
20
33
37
38
30
32a
27
38
27
66
45
36a 22 S355ø14 L=4.15 m
var63–561
45
32a 2 S355ø16 L=10.40 m
526
332
622
292
38 8 S355ø14 Lmed=4.00 m
var 360–396
37 6 S355ø14 L=4.70 m
447
33 5 S355ø14 L=7.10 m
572
71
45
34 5 S355ø14 L=6.30 m
565
45


30 27 S355ø14 Lmed=4.00 m
var 312–447
28 6 S355ø14 Lmed=4.60 m
var 414–461
26' 4 S355ø14 Lmed=4.20 m
var 394–403
26 3 S355ø14 L=4.30 m
409
20 5 S345ø16 Lmed=5.70 m
var 408–423
132
24 2 S345ø16 Lmed=4.05 m
var 329–334
25
25

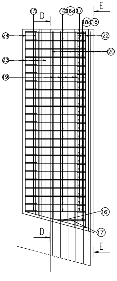


SECTIUNE C–C/ C–C SECTION
Scara/Scale 1:25


22
25
15
24
16
23
17
19
20
26
27
26'
27'
28
29
35 33
34 36
30
31
32a 32 32'
18 24+21 S355ø12 L=0.90 m
21
52
18a 24+21 S355ø12 L=2.30 m
16
97
37

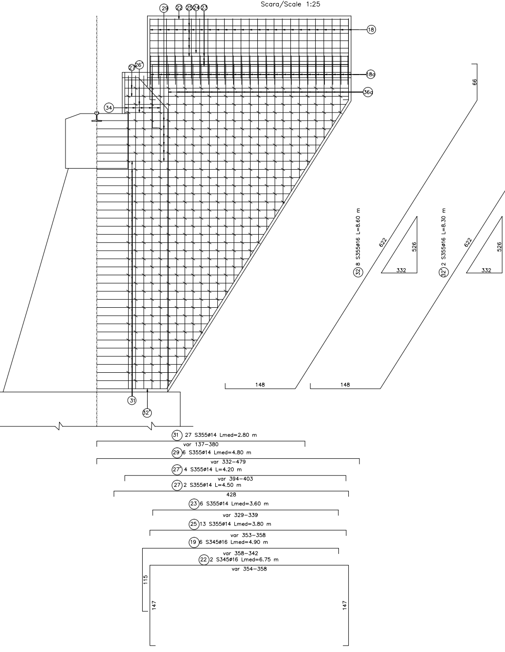

21
27
20
27
15 23+24 S355ø12 L=1.60 m
71
39 1238 S355ø12 L=0.80 m
26
21
18
16 23+22 S355ø12 L=1.90 m
89
var 9–64
26
18
16a 2 S355ø12 Lmed=1.35 m
51
16' 1 S355ø12 L=0.70 m
22
90
17 23+22 S355ø12 L=1.30 m
var 9–56
27
17a 2 S355ø12 Lmed=0.75 m
56
17' 1 S355ø12 L=0.75 m

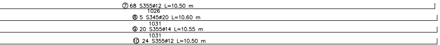
SECTIUNE C1–C1/ C1–C1 SECTION
Scara/Scale 1:25


15
D
16 16a 17
E
18a 18
24
22
20
23
19
16'
17'
D
E

VEDERE E-E/ E-E VIEW

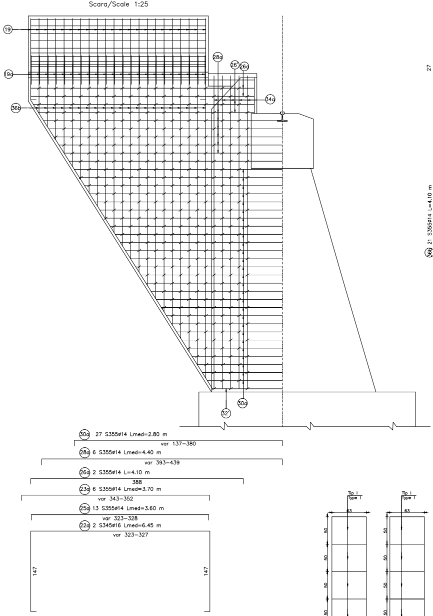
Scara/Scale 1:25


㉙
㉒
㉕
㉔
㉓
⑱
(18a)
(36a)
(27')
(26')
㉞
㉛
(32')
66
37
(32) 8 S355ø16 L=8.60 m
(32') 2 S355ø16 L=8.30 m
622
526
332
622
526
332
148
148
㉛ 27 S355ø14 Lmed=2.80 m
var 137-380
㉙ 6 S355ø14 Lmed=4.80 m
var 332-479
(27') 4 S355ø14 L=4.20 m
var 394-403
㉗ 2 S355ø14 L=4.50 m
428
㉓ 6 S355ø14 Lmed=3.60 m
var 329-339
㉕ 13 S355ø14 Lmed=3.80 m
var 353-358
⑲ 6 S345ø16 Lmed=4.90 m
var 358-342
㉒ 2 S345ø16 Lmed=6.75 m
var 354-358
115
147
147


⑦ 68 S355ø12 L=10.50 m
1026
⑧ 5 S345ø20 L=10.60 m
1031
⑨ 20 S355ø14 L=10.55 m
1031
⑩ 24 S355ø12 L=10.50 m
1031

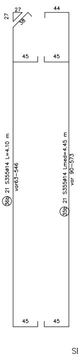
VEDERE G-G/ G-G VIEW

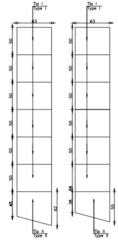
Scara/Scale 1:25


⑲
(19a)
(36b)
(28a)
(26')
(26a)
(34a)
(32')
(30a)
(30a) 27 S355ø14 Lmed=2.80 m
var 137-380
(28a) 6 S355ø14 Lmed=4.40 m
var 393-439
(26a) 2 S355ø14 L=4.10 m
388
(23a) 6 S355ø14 Lmed=3.70 m
var 343-352
(25a) 13 S355ø14 Lmed=3.60 m
var 323-328
(22a) 2 S345ø16 Lmed=6.45 m
var 323-327
147
147

SECTIUNE

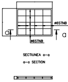
Scara


27
27
38
44
45
45
45
45
45
45
(36b) 21 S355ø14 L=4.10 m
var63-546
(35b) 21 S355ø14 Lmed=4.45 m
var 90-573
SE


Tip I
Type I
63
50
50
50
50
50
50
45
62
Tip II
Type II
Tip I
Type I
63
50
50
50
50
50
88
38
55
Tip II
Type II

ARMARE DALA PREFABRICATA DIN

CONCRETE PREFAB SLABS REINFOR


a
a
ø6STNB
ø6STNB

SECTIUNEA a-a

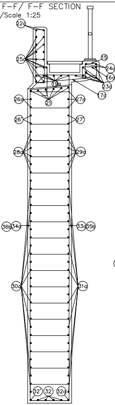
a-a SECTION

EXTRAS DE ARMATURA STNB

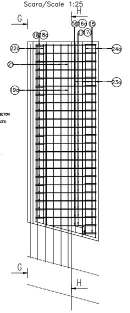
REIFORCEMENT TABLE STNB

TIP/TYPE	TIP ARMATURA TYEPE REINFOCEMENT	Nr. BUC. No. PIECE	kg/m	m/buc. m/piece	kg
TIP 1	STNB 6 G.Q.283	12	0.222	6.15	16.38
TIP2	STNB 6 G.Q.283	2	0.222	4.30	1.90

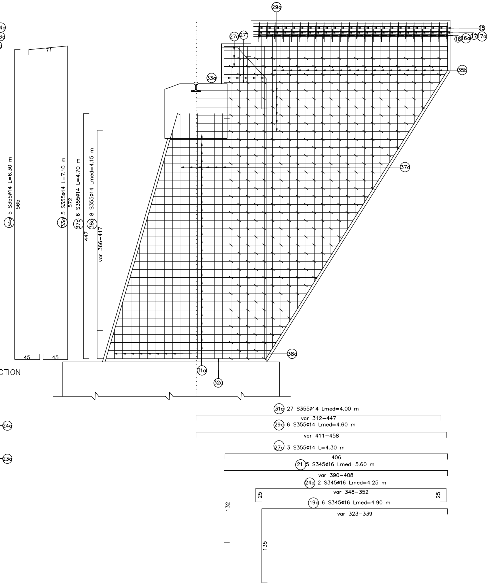
F–F/ F–F SECTION
/Scale 1:25


22a
25a
15
24a
16a
23a
17a
19a
21
26a
27a
26'
27'
28a
29a
36b
34a
33a
35b
30a
31a
32'
32
32a

ECTIUNE F1–F1/ F1–F1 SECTION
Scara/Scale 1:25


G
H
16
16a
15
18
18a
17
17a
22a
24a
21
23a
19a
BETON
CED
G
H

VEDERE H–H/ H–H VIEW
Scara/Scale 1:25


29a
27a
27'
15
16
16a
17
17a
33a
35b
37a
38a
31a
32a
71
34a 5 S355ø14 L=6.30 m
565
33a 5 S355ø14 L=7.10 m
572
37a 6 S355ø14 L=4.70 m
447
38a 8 S355ø14 Lmed=4.15 m
var 366–417
45
45
31a 27 S355ø14 Lmed=4.00 m
var 312–447
29a 6 S355ø14 Lmed=4.60 m
var 411–458
27a 3 S355ø14 L=4.30 m
406
21 5 S345ø16 Lmed=5.60 m
var 390–408
132
24a 2 S345ø16 Lmed=4.25 m
25
var 348–352
25
19a 6 S345ø16 Lmed=4.90 m
var 323–339
135

TOTAL POD (2 CULEI): 2 x 6450.00kg=12900.00.kg
TOTAL BRIDGE (2 ABUTMENTS): 2 x 6450.00kg=12900.00kg

EXTRAS DE ARMATURA PENTRU O CULEE
REINFORCEMENT FOR ONE ABUTMENT

Marca	Diametru	Lung./buc.[m]	Nr.buc.	S355			S345	S345
				Φ10	Φ12	Φ14	Φ16	Φ20
1	10	3.80	69	262.20				
1a	10	2.70	2	5.40				
2	10	4.60	100	460.00				
2a	10	5.70	5	28.50				
2b	10	6.90	5	34.50				
3	12	1.05	56		58.80			
4	10	1.30	56	72.80				
5	10	1.20	56	67.20				
6	10	1.80	10	18.00				
6a	10	1.00	1	1.00				
6b	10	0.95	1	0.95				
7	12	10.50	68		714.00			
8	20	10.60	5					53.00
9	14	10.55	20			211.00		
10	12	10.50	24		252.00			
11	10	1.05	138	144.90				
12	12	1.55	105		162.75			
12a	14	1.55	69			106.95		
13a	14	2.15	2			4.30		
13b	14	3.50	2			7.00		
13	14	4.95	66			326.70		
14	14	7.30	67			489.10		
14a	14	6.20	1			6.20		
14b	14	3.05	10			30.50		
15	12	1.60	47		75.20			
16	12	1.90	45		85.50			
16a	12	1.65	2		3.30			
16'	12	0.70	1		0.70			
17	12	1.30	45		58.50			
17a	12	0.75	2		1.50			
17'	12	0.75	1		0.75			
18	12	0.90	45		40.50			
18a	12	2.30	45		103.50			
19	16	4.90	6				29.40	
19a	16	4.90	6				29.40	
20	16	5.70	5				28.50	
21	16	5.60	5				28.00	
22	16	6.75	2				13.50	
22a	16	6.45	2				12.90	
23	14	3.60	6			21.60		
23a	14	3.70	6			22.20		
24	16	4.05	2				8.10	
24a	16	4.25	2				8.50	
25	14	3.80	13			49.40		
25a	14	3.60	13			46.80		
26	14	4.30	3			12.90		
26a	14	4.10	3			12.30		
26'	14	4.20	4			16.80		
27	14	4.50	3			13.50		
27a	14	4.30	3			12.90		
27'	14	4.20	4			16.80		
28	14	4.60	6			27.60		
28a	14	4.40	6			26.40		
29	14	4.80	6			28.80		
29a	14	4.60	6			27.60		
30	14	4.00	27			108.00		
30a	14	2.80	27			75.60		
31	14	2.80	27			75.60		
31a	14	4.00	27			108.00		
32	16	8.60	8				68.80	
32a	16	10.40	2				20.80	
32'	16	8.30	2				16.60	
33	14	7.10	5			35.50		
33a	14	7.10	5			35.50		
34	14	6.30	5			31.50		
34a	14	6.30	5			31.50		
35	14	7.05	1			7.05		
35a	14	4.50	22			99.00		
35b	14	4.45	21			93.45		
36	14	6.90	1			6.90		
36a	14	4.15	22			91.30		
36b	14	4.10	21			86.10		
37a	14	4.70	6			28.20		
37	14	4.70	6			28.20		
38	14	4.00	8			32.00		
38a	14	4.15	8			33.20		
39	12	0.80	619		495.20			
40	14	1.70	8			13.60		
Lungimi totale pe diametre			(m)	1095.45	2052.20	2537.55	264.50	53.00
Masa pe metru liniar			(kg/ml)	0.617	0.888	1.208	1.578	2.466
Masa pe diametre			(kg)	675.39	1821.97	3066.41	417.47	130.71
Masa pe tip otel			(kg)	5564.00			548.18	
Masa totala culee			(kg)	6115.00				
Pierderi 5%			(kg)	305.75				
Masa totala culee			(kg)	6450.00				

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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 FINANŢAT 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	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 COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Secu Razvan	02.2012	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Brasov - Sighisoara
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

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

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

Denumire desen / Drawing Title :
INTERVAL /SECTION ARCHITA –VANATORI
POD Km 270+362.572 D=16.00m/PLAN ARMARE CULEI (POD CALE DUBLA)
BRIDGE Km270+362.572 D=16.00m/ABUTMENTS REINFORCEMENT PLAN

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

E A 5 1 | 0 1 | E | 1 6 | B C | P V | 0 4 | 3 | 2 | 0 1 0 | 0