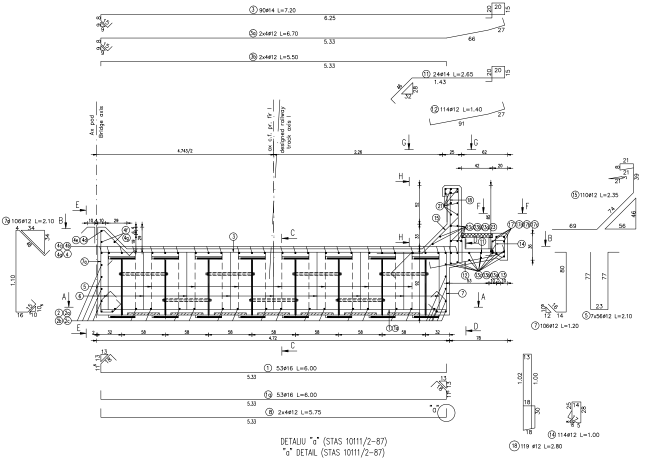
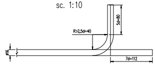
SECTIUNE TRANSVERSALA TABLIER POD
BRIDGE DECK CROSS SECTION

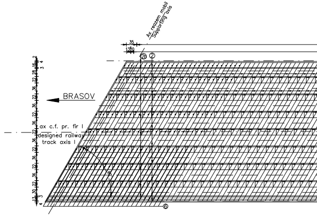
sc. 1:20

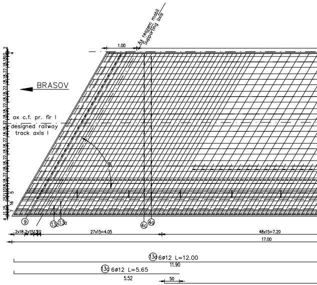

③ 90ø14 L=7.20
6.25
③a 2x4ø12 L=6.70
5.33
66
③b 2x4ø12 L=5.50
5.33
⑪ 24ø14 L=2.65
1.43
⑫ 114ø12 L=1.40
91
Ax pod
Bridge axis
ax c.f. pr. fir I
designed railway track axis I
4.743/2
2.26
25
62
42
20
⑦a 106ø12 L=2.10
1.10
⑮ 110ø12 L=2.35
69
56
46
74
39
⑤ 7x56ø12 L=2.10
⑦ 106ø12 L=1.20
4.72
78
① 53ø16 L=6.00
5.33
①a 53ø16 L=6.00
5.33
⑧ 2x4ø12 L=5.75
5.33
"a"
⑭ 114ø12 L=1.00
⑱ 119 ø12 L=2.80
1.02
1.00
A
B
C
D
E
F
G
H

DETALIU "a" (STAS 10111/2-87)
"a" DETAIL (STAS 10111/2-87)

sc. 1:10

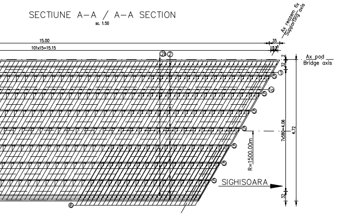

R>2,5d=40
5d=80
ø16
7d=112


Ax reazem mobil
Supporting axis
BRASOV
ax c.f. pr. fir I
designed railway track axis I


Ax reazem mobil
Supporting axis
1.00
BRASOV
ax c.f. pr. fir I
designed railway track axis I
27x15=4.05
48x15=7.20
17.00
⑬a 6ø12 L=12.00
11.90
⑬a 6ø12 L=5.65
5.52
50

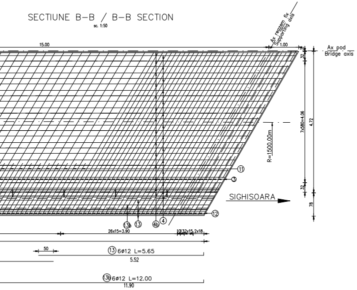
SECTIUNE A–A / A–A SECTION

sc. 1:50


15.00
101x15=15.15
35
10
15
32
2
Ax reazem fix
Supporting axis
Ax pod
Bridge axis
2b
2
1
1a
5
7x580=4.06
4.72
R=1500.00m
SIGHISOARA
6
32

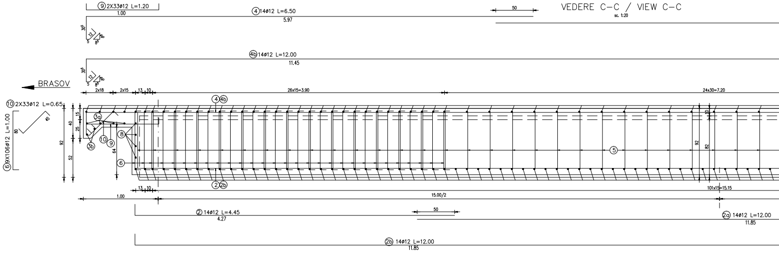
SECTIUNE B–B / B–B SECTION

sc. 1:50


15.00
1.00
Ax reazem fix
Supporting axis
Ax pod
Bridge axis
32
7x580=4.06
4.72
R=1500.00m
11
3
32
78
SIGHISOARA
12
13b
13
4b
4
26x15=3.90
10
13
2x15
2x18
50
⑬ 6ø12 L=5.65
5.52
13b 6ø12 L=12.00
11.90

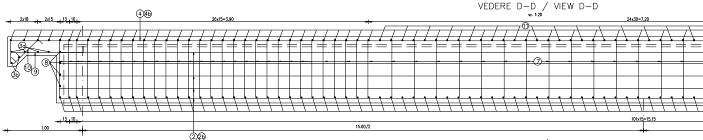
VEDERE C–C / VIEW C–C

sc. 1:20


⑨ 2X33ø12 L=1.20
1.00
30
12
5
8
④ 14ø12 L=6.50
5.97
50
4b 14ø12 L=12.00
11.45
BRASOV
2x18
2x15
13
10
26x15=3.90
24x30=7.20
⑩ 2X33ø12 L=0.65
45
80
⑥ 9X106ø12 L=1.00
④
4b
3a
3b
⑩
⑨
⑧
⑥
40
15
25
92
52
64
⑤
10
92
82
②
2b
101x15=15.15
1.00
15.00/2
② 14ø12 L=4.45
4.27
50
2a 14ø12 L=12.00
11.85
2b 14ø12 L=12.00
11.85

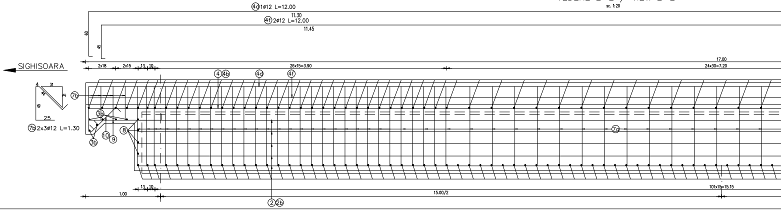
VEDERE D–D / VIEW D–D

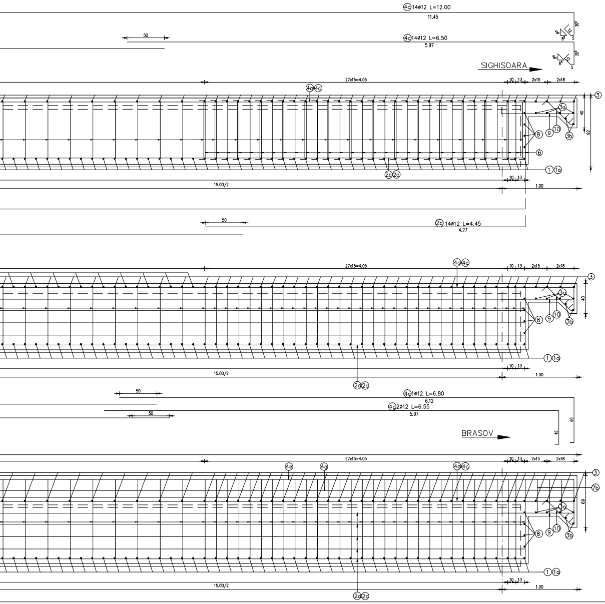
sc. 1:20


2x18
2x15
13
10
26x15=3.90
24x30=7.20
④
4b
⑪
3a
⑧
⑦
⑩
⑨
3b
101x15=15.15
1.00
15.00/2
②
2b

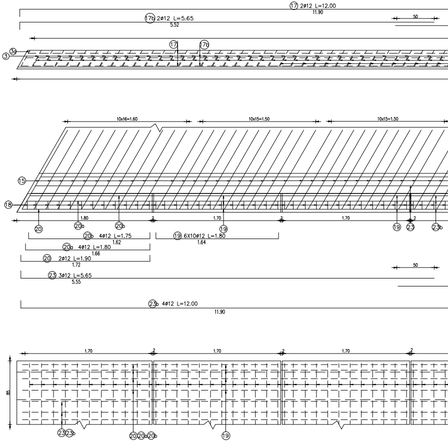
VEDERE E–E / VIEW E–E

sc. 1:20


4d 1ø12 L=12.00
11.30
4f 2ø12 L=12.00
11.45
60
45
17.00
2x18
2x15
13
10
26x15=3.90
24x30=7.20
SIGHISOARA
④
4b
4d
4f
7b
4
31
31
45
25
7b 2x3ø12 L=1.30
3a
3b
⑩
⑨
⑧
7a
101x15=15.15
1.00
15.00/2
②
2b



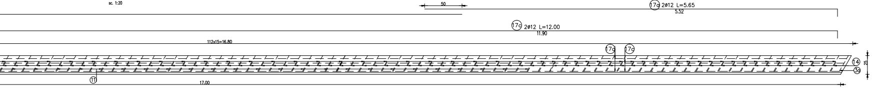
4a 14ø12 L=12.00
11.45
4c 14ø12 L=6.50
5.97
50
SIGHISOARA
27x15=4.05
10 13 2x15 2x18
4a 4c
3
3a
40
92
8 9 10 3b
6
1 1a
2a 2c
15.00/2
1.00
2c 14ø12 L=4.45
4.27
4a 4c
3
3a
40
8 9 10 3b
1 1a
2a 2c
15.00/2
1.00
4e 1ø12 L=6.80
6.12
4g 2ø12 L=6.55
5.97
60
45
BRASOV
4e 4g 4a 4c
3
7b
69
3a
8 9 10 3b
1 1a
15.00/2
1.00
2a 2c



17 2ø12 L=12.00
11.90
17b 2ø12 L=5.65
5.52
50
3a
3
17 17b
10x16=1.60
10x15=1.50
10x15=1.50
15
18
1.80
2
1.70
2
1.70
2
20 20a 20b 19 19 23 23b
20b 4ø12 L=1.75
1.62
19 6X10ø12 L=1.80
1.64
20a 4ø12 L=1.80
1.66
20 2ø12 L=1.90
1.72
23 3ø12 L=5.65
5.55
50
23b 4ø12 L=12.00
11.90
1.70
2
1.70
2
1.70
2
85
23 23b
20 20a 20b
19

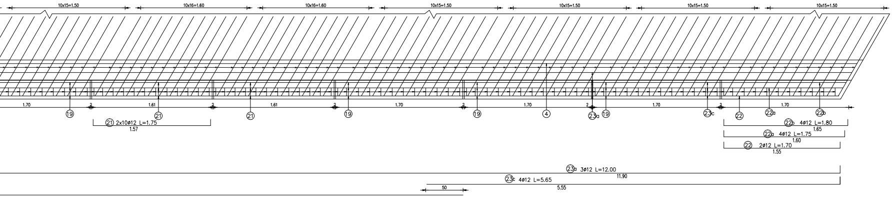
VEDERE F–F / VIEW F–F

sc. 1:20


50
17a 2ø12 L=5.65
5.52
17c 2ø12 L=12.00
11.90
112x15=16.80
17c
17c
14
3a
25
11
17.00

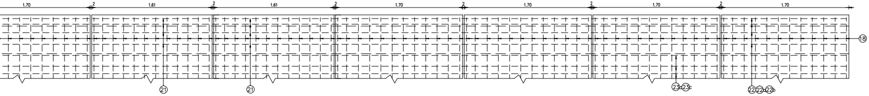
VEDERE G–G / VIEW G–G

sc. 1:20


10x15=1.50
10x16=1.60
10x16=1.60
10x15=1.50
10x15=1.50
10x15=1.50
10x15=1.50
1.70
2
1.61
2
1.61
2
1.70
2
1.70
2
1.70
2
1.70
19
21
21
19
19
4
23a
19
23c
22
22a
22b
21 2x10ø12 L=1.75
1.57
22b 4ø12 L=1.80
1.65
22a 4ø12 L=1.75
1.60
22 2ø12 L=1.70
1.55
23a 3ø12 L=12.00
11.90
23c 4ø12 L=5.65
5.55
50

VEDERE H–H/VIEW H–H

sc. 1:20


1.70
2
1.61
2
1.61
2
1.70
2
1.70
2
1.70
2
1.70
18
21
21
23a
23c
22
22a
22b

EXTRAS DE ARMATURA
TABLE FOR REINFORCEMENTS

M	ø	B	L(m)	PC52		
				ø12	ø14	ø16
1	16	53	6.00			318.00
1a	16	53	6.00			318.00
2	12	14	4.45	62.30		
2a	12	14	12.00	168.00		
2b	12	14	4.45	62.30		
2c	12	14	12.00	168.00		
3	14	90	7.20		648.00	
3a	12	8	6.70	53.60		
3b	12	4	5.50	22.00		
4	12	14	6.50	91.00		
4a	12	14	12.00	168.00		
4b	12	14	12.00	168.00		
4c	12	14	6.50	91.00		
4d	12	1	12.00	12.00		
4e	12	1	6.80	6.80		
4f	12	2	12.00	12.00		
4g	12	2	6.55	13.10		
5	12	392	2.10	823.20		
6	12	952	1.00	952.00		
7	12	106	1.20	127.20		
7a	12	106	2.10	222.60		
8	12	8	4.95	39.60		
9	12	66	1.20	79.20		
10	12	66	0.65	42.90		
11	14	24	2.65		63.60	
12	12	114	1.40	159.60		
13	12	6	5.65	33.90		
13a	12	6	12.00	72.00		
13b	12	6	12.00	72.00		
13c	12	6	5.65	33.90		
14	12	114	1.00	114.00		
15	12	110	2.35	258.50		
17	12	2	12.00	24.00		
17a	12	2	5.65	11.30		
17b	12	2	5.65	11.30		
17c	12	2	12.00	24.00		
18	12	119	2.70	321.30		
19	12	60	1.80	108.00		
20	12	2	1.90	3.80		
20a	12	4	1.80	7.20		
20b	12	4	1.75	7.00		
21	12	20	1.75	35.00		
22	12	2	1.70	3.40		
22a	12	4	1.75	7.00		
22b	12	4	1.80	7.20		
23	12	3	5.65	16.95		
23a	12	3	12.00	36.00		
23b	12	4	12.00	48.00		
23c	12	4	5.65	22.60		
LUNGIMI/ø				4711.20	711.60	636.00
GREUTATI/ML (kg)				0.888	1.208	1.578
GREUTATI/ø				4183.55	859.60	1003.60
GREUTATI PE TIP DE OTEL (kg)				6047kg		
PIERDERI 5% (kg)				302kg		
GREUTATI TOTALE (kg)				6350kg		

Beton:
Concrete: – C30/37 suprastructura/superstructure

Armatura:
Reinforcement: – S355; S345.

Strat de acoperire:
Concrete cover – min.4cm expunere in aer/4cm air exposed

NOTA/NOTE

Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m^2. Distantierii trebuie legati cu sarma de carcasa de armatura.

In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted. The distance pieces shall be connected to the reinforcing framework, using wire.

NOTA

1. Prezentul plan a fost intocmit pe baza:
    - Dispozitiei generale.
    - Plan cofraj suprastructura
2. La executie se vor respecta cu strictete prevederile din:
    -"Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat-Partea 1:Producerea betonului", indicativ NE 012/1-2007;
    -"Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 2:Executarea lucrarilor din beton ", indicativ NE 012-2010;
    -"Normativul pentru verificarea calitatii si receptia lucrarilor de constructii", indicativ C56-85;
    -Caietul de Sarcini.

NOTE

1. This Plan was drawn up based on the following data:
    - General Disposition.
    - Supersructure shuttering.
2. Durring execution the provisions in the following norms shall be respected:
    -"Norm for concrete production and works execution, reinforced concrete and pre-stressed concrete-Part 1:Concrete production", NE 012/1-2007;
    -"Norm for concrete production and works execution, reinforced concrete and pre-stressed concrete.Part 2 : The execution for concrete works." NE 012/2-2010;
    -"Practice code for acceptance of the construction works", C 56-85.
    -Specifications book.

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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

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	02.2012	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	02.2012	
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis	02.2012	

SUBCONTRACTANT / SUBCONTRACTOR AREX Lider COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Cristina Vasiliu	02.2012	

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:
P.Th. / T.D.
D.E. / E.D.

Denumire desen / Drawing Title : Interval Archita – Vanatori

POD / BRIDGE Km 270+941.472 L=15.00m
PLAN ARMARE SUPRASTRUCTURA LINIA I /
/ SUPERSTRUCTURE REINFORCEMENT PLAN, TRACK I

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01

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

420x3070