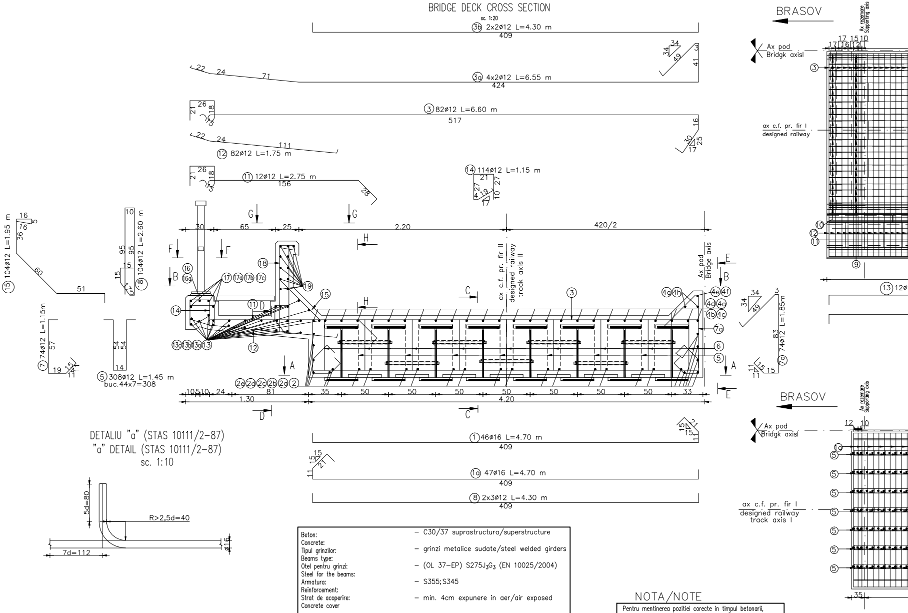
SECTIUNE TRANSVERSALA TABLIER POD
BRIDGE DECK CROSS SECTION
sc. 1:20


③b 2x2ø12 L=4.30 m
409
③a 4x2ø12 L=6.55 m
424
22
24
71
34
34
49
3
41
③ 82ø12 L=6.60 m
517
26
21
18
16
30
25
17
⑫ 82ø12 L=1.75 m
22
24
111
⑪ 12ø12 L=2.75 m
156
28
⑭ 114ø12 L=1.15 m
21
27
27
19
10
4
17
⑮ 104ø12 L=1.95 m
16
16
5
36
60
51
⑱ 104ø12 L=2.60 m
10
95
95
15
5
⑦ 74ø12 L=1.15m
57
19
15
11
⑤ 308ø12 L=1.45 m
buc.44x7=308
54
54
14
30
65
25
2.20
420/2
G
F
B
H
C
D
A
E
⑯
⑯a
⑰ ⑰a ⑰b ⑰c
⑱
⑲
⑮
⑭
⑪
⑫
⑬c ⑬b ⑬a ⑬
③
④g ④h
④e ④f
④d ④a
④b ④c
⑦a
⑥
⑤
②e ②d ②c ②b ②a ②
ax c.f. pr. fir II
designed railway track axis II
Ax pod
Bridge axis
10 5 10
24
81
1.30
35
50
50
50
50
50
50
50
33
4.20
⑦g 74ø12 L=1.85m
34
49
3
83
15
15
11
① 46ø16 L=4.70 m
409
15
15
2
①a 47ø16 L=4.70 m
409
15
15
21
11
⑧ 2x3ø12 L=4.30 m
409
BRASOV
Ax rezemare
Supporting axis
Ax pod
Bridgk axisl
17 15 10
17 16 12
③
ax c.f. pr. fir I
designed railway
⑩
⑫
⑪
⑨
⑬ 12ø
BRASOV
Ax rezemare
Supporting axis
Ax pod
Bridgk axisl
12 10
①a
⑤
⑤
⑤
⑤
⑤
⑤
⑤
ax c.f. pr. fir I
designed railway
track axis I
35
5d=80
R>2,5d=40
ø16
7d=112

DETALIU "a" (STAS 10111/2-87)
"a" DETAIL (STAS 10111/2-87)
sc. 1:10

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

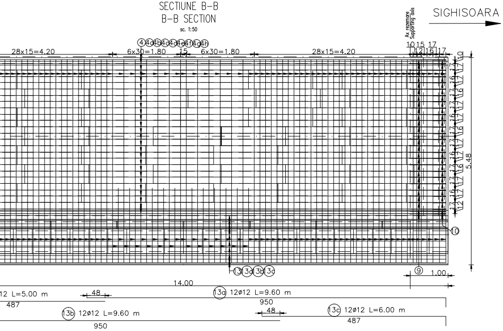
NOTA/NOTE

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.

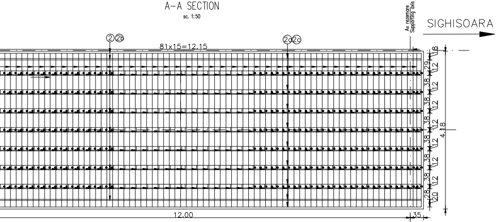
SECTIUNE B-B
B-B SECTION

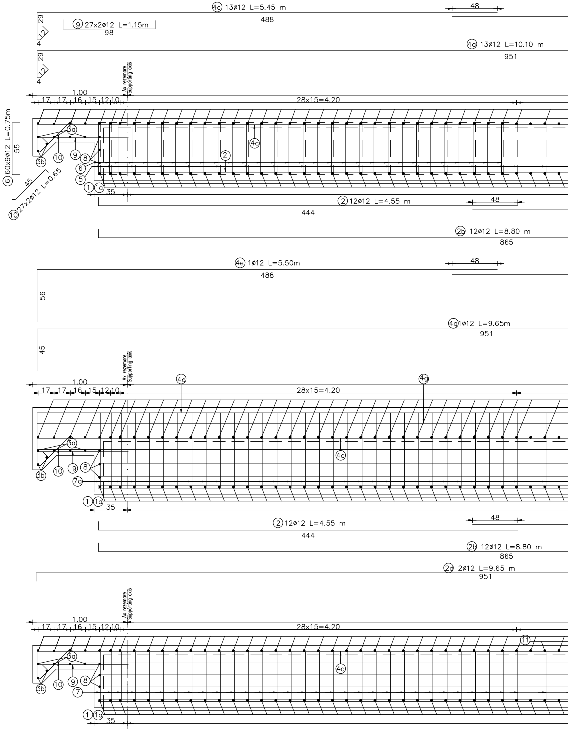
sc. 1:50


SIGHISOARA
Ax rezemare Supporting axis
④④ⓐ④ⓑ④ⓒ④ⓓ④ⓔ④ⓕ④ⓖ④ⓗ
28x15=4.20
6x30=1.80
15
6x30=1.80
28x15=4.20
10 15 17
12 16 17
10
17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 12
5.48
⑩
⑬⑬ⓐ⑬ⓑ⑬ⓒ
⑨
1.00
14.00
12 L=5.00 m
487
48
⑬ⓐ 12ø12 L=9.60 m
950
⑬ⓑ 12ø12 L=9.60 m
950
48
⑬ⓒ 12ø12 L=6.00 m
487

SECTIUNE A-A
A-A SECTION

sc. 1:50


SIGHISOARA
Ax rezemare Supporting axis
②②ⓑ
81x15=12.15
②ⓒ②ⓒ
8
29
12
38
12
38
12
38
12
4.18
38
12
38
12
38
12
28
20
12.00
35


④ⓒ 13ø12 L=5.45 m
488
48
29
12
4
⑨ 27x2ø12 L=1.15m
98
④ⓐ 13ø12 L=10.10 m
951
29
12
4
Ax rezemare Supporting axis
1.00
17 17 16 15 12 10
28x15=4.20
⑥ 60x9ø12 L=0.75m
55
45
⑩ 27x2ø12 L=0.65
③ⓐ
③ⓑ
⑩
⑨
⑧
⑥
⑤
①①ⓐ
35
②
④ⓒ
② 12ø12 L=4.55 m
444
48
②ⓑ 12ø12 L=8.80 m
865
④ⓔ 1ø12 L=5.50m
488
48
56
④ⓖ 1ø12 L=9.65m
951
45
Ax rezemare Supporting axis
1.00
17 17 16 15 12 10
28x15=4.20
④ⓔ
④ⓖ
③ⓐ
④ⓒ
③ⓑ
⑩
⑨
⑧
⑦ⓐ
①①ⓐ
35
② 12ø12 L=4.55 m
444
48
②ⓑ 12ø12 L=8.80 m
865
②ⓒ 2ø12 L=9.65 m
951
Ax rezemare Supporting axis
1.00
17 17 16 15 12 10
28x15=4.20
⑪
③ⓐ
④ⓒ
③ⓑ
⑩
⑨
⑧
⑦
①①ⓐ
35

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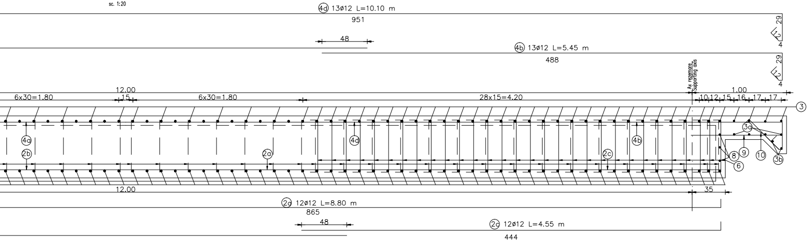
SECTIUNE C-C/C-C SECTION

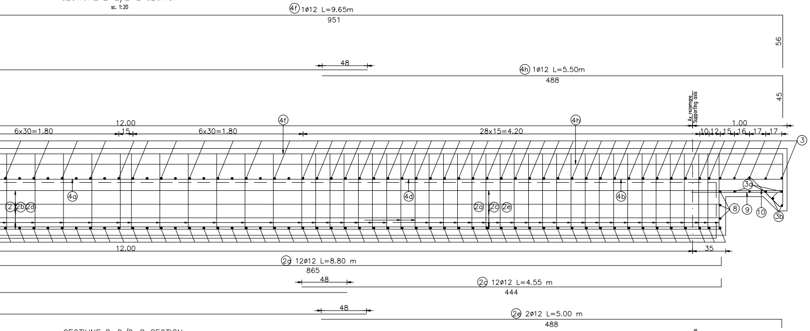
sc. 1:20



4d 13ø12 L=10.10 m
951
48
29
12
4
4b 13ø12 L=5.45 m
488
29
12
4
Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
28x15=4.20
1.00
10 12 15 16 17 17
3
4a
2b
4d
2a
2c
4b
3a
8
9
10
6
3b
12.00
35
2a 12ø12 L=8.80 m
865
48
2c 12ø12 L=4.55 m
444

SECTIUNE E-E/E-E SECTION

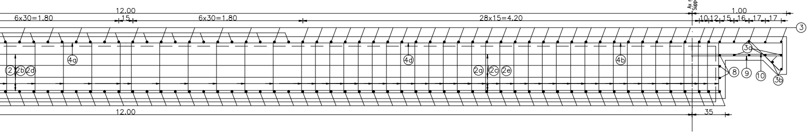
sc. 1:20



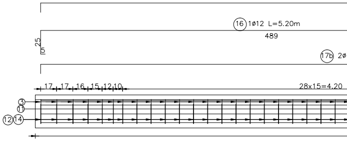
4f 1ø12 L=9.65m
951
56
48
4h 1ø12 L=5.50m
488
45
Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
4f
28x15=4.20
4h
1.00
10 12 15 16 17 17
3
4a
2 2b 2d
4d
2a 2c 2e
4b
3a
8
9
10
3b
12.00
35
2a 12ø12 L=8.80 m
865
48
2c 12ø12 L=4.55 m
444
48
2e 2ø12 L=5.00 m
488

SECTIUNE D-D/D-D SECTION

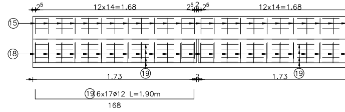
sc. 1:20



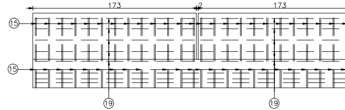
Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
28x15=4.20
1.00
10 12 15 16 17 17
3
4a
2 2b 2d
4d
2a 2c 2e
4b
3a
8
9
10
3b
12.00
35



16 1ø12 L=5.20m
489
25
5
17b 2ø
17 17 16 15 12 10
28x15=4.20
3
1
12 14



2 5
12x14=1.68
2 5 2 2 5
12x14=1.68
15
18
1.73
19
2
1.73
19
19 6x17ø12 L=1.90m
168

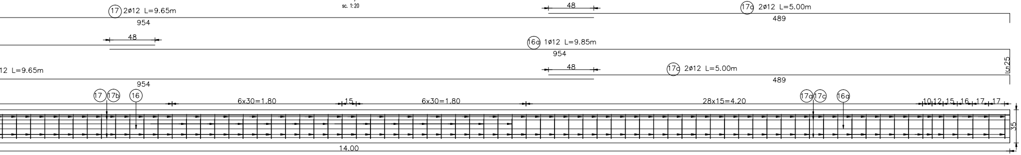


173
2
173
15
15
19
19

EXTRAS DE ARMATURA TABLIER TABLE FOR REINFORCEMENTS FOR SINGLE RAIWAY					
				S355	S345
Marca	Diametru	Lung. / [m]	Nr. buc	ø 12	ø 16
1	16	4.70	46		216.20
1a	16	4.70	47		220.90
2	12	4.55	12	54.60	
2a	12	8.80	12	105.60	
2b	12	8.80	12	105.60	
2c	12	4.55	12	54.60	
2d	12	9.65	2	19.30	
2e	12	5.00	2	10.00	
3	12	6.6	82	541.20	
3a	12	6.55	8	52.40	
3b	12	4.30	4	17.20	
4a	12	10.10	13	131.30	
4b	12	5.45	13	70.85	
4c	12	5.45	13	70.85	
4d	12	10.10	13	131.30	
4e	12	5.50	1	5.50	
4f	12	9.65	1	9.65	
4g	12	9.65	1	9.65	
4h	12	5.50	1	5.50	
5	12	1.45	308	446.60	
6	12	0.75	540	405.00	
7	12	1.15	74	85.10	
7a	12	1.85	74	136.90	
8	12	4.30	6	25.80	
9	12	1.15	54	62.10	

VEDERE F-F/VIEW F-F

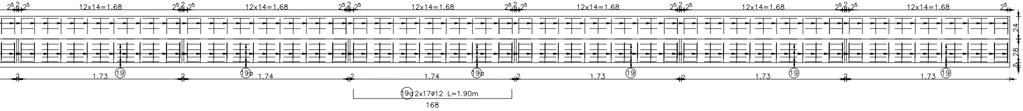
sc. 1:20



17 2ø12 L=9.65m
954
48
17a 2ø12 L=5.00m
489
16a 1ø12 L=9.85m
954
48
12 L=9.65m
954
17a 2ø12 L=5.00m
489
25
17
17b
16
6x30=1.80
15
6x30=1.80
28x15=4.20
17a
17c
16a
10 12 15 16 17 17
35
14.00

VEDERE G-G/VIEW G-G

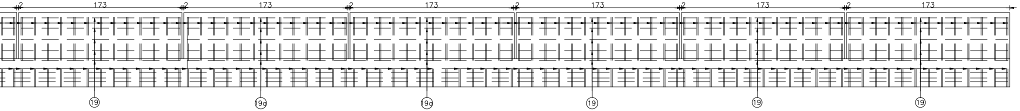
sc. 1:20



2⁵ 2 2⁵
12x14=1.68
24
28
5
19
19a
19a
19
19
19
2
1.73
1.74
1.74
1.73
1.73
1.73
19a 2x17ø12 L=1.90m
168

VEDERE H-H/VIEW H-H

sc. 1:20



2
173
19
19a
19a
19
19
19

EXTRAS DE ARMATURA TABLIER

TABLE FOR REINFORCEMENTS FOR SINGLE RAIWAY

Marca	Diametru	Lung. / [m]	Nr. buc	S355 ø12	S345 ø16
10	12	0.65	54	35.10	
11	12	1.75	12	21.00	
12	12	1.75	82	143.50	
13	12	5.00	12	60.00	
13a	12	9.60	12	115.20	
13b	12	9.60	12	115.20	
13c	12	5.00	12	60.00	
14	12	1.15	94	108.10	
15	12	1.95	104	202.80	
16	12	5.20	1	5.20	
16a	12	9.85	1	9.85	
17	12	9.65	2	19.30	
17a	12	5.00	2	10.00	
17b	12	5.00	2	10.00	
17c	12	9.65	2	19.30	
18	12	2.60	104	270.40	
19	12	1.90	66	125.40	
19a	12	1.90	22	41.80	
Lungimi totale pe diametre (m)				3928.75	437.10
Masa pe metru liniar (kg/ml)				0.888	1.578
Masa pe diametre (Kg)				3488.73	689.7438
Masa pe tip de otel (Kg)				3488.73	689.7438
Masa totala tablier (Kg)				4178.47	
Spor 5%				208.92	
				TOTAL 4400 Kg	

TOTAL POD (2 TABLIERE): 2 x 4400.00kg=8800.0kg
TOTAL BRIDGE (2 DECKS): 2 x 4400.00kg=8800.0kg

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 FINANŢAT 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 COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Mihai Ady Nicolae	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:
D.E. / E.D.

Denumire desen / Drawing Title :

POD Km.198+511.930 L=12.00m
ARMARE SUPRASTRUCTURA

BRIDGE Km.198+511.930 L=12.00m
SUPERSTRUCTURE REINFORCEMENT

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

E A 5 1 0 1 E 0 8 B C P V 0 1 2 3 0 0 8 0

420x2445