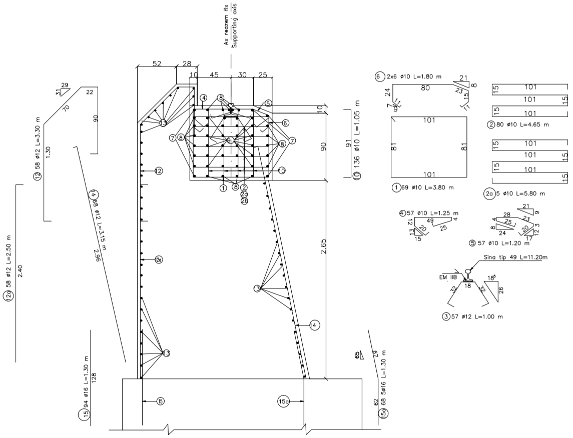
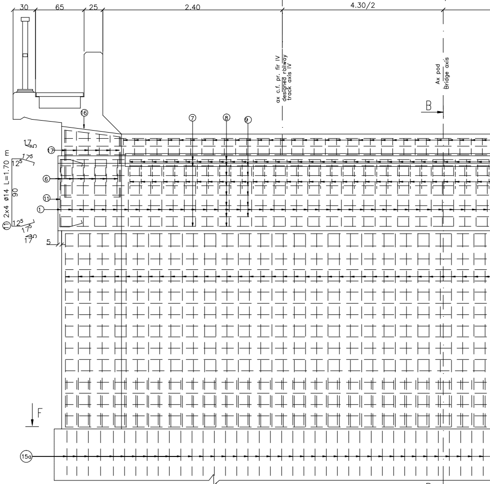
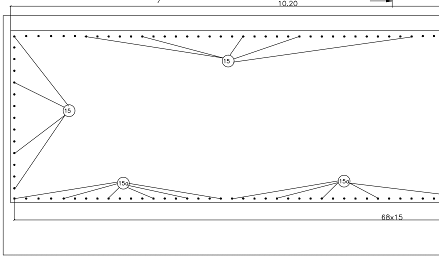
SECTIUNE TRANSVERSALA B–B
B–B CROSS SECTION


Ax reazem fix
Supporting axis
52
28
10
45
30
25
10
90
91
2.65
⑩ 136 ø10 L=1.05 m
29
31
70
22
90
⑫ 58 ø12 L=3.30 m
1.30
⑫a 58 ø12 L=2.50 m
2.40
⑭ 68 ø12 L=3.15 m
2.96
⑮ 94 ø16 L=1.30 m
128
65
67
⑮a 68 5ø16 L=1.30 m
62
① ② ②a ②b ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑫ ⑫a ⑬ ⑭ ⑮ ⑮a
⑥ 2x6 ø10 L=1.80 m
80
24
21
8
23
15
11
7
9
101
81
① 69 ø10 L=3.80 m
101
15
② 80 ø10 L=4.65 m
②a 5 ø10 L=5.80 m
④ 57 ø10 L=1.25 m
49
12
13
20
25
4
15
28
25
21
9
23
3
20
12
17
8
24
⑤ 57 ø10 L=1.20 m
Sina tip 49 L=11.20m
EM IIB
18
32
18⁵
26
③ 57 ø12 L=1.00 m

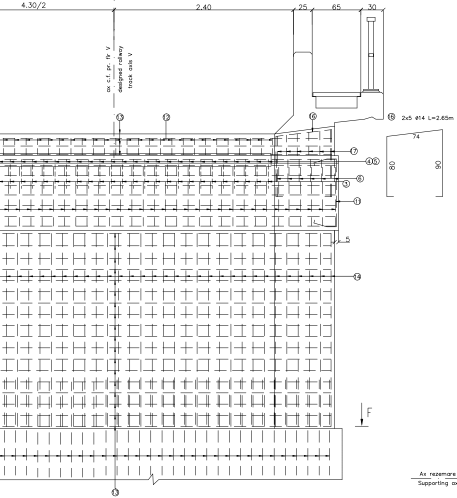
ELEVATIE A–A / A–A

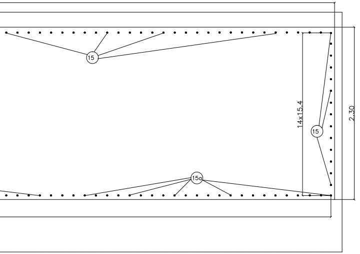

30
65
25
2.40
4.30/2
ax c.f. pr. fir IV
designed railway
track axis IV
Ax pod
Bridge axis
B
⑯
⑦
⑧
⑨
⑰
17
5
17⁵
12⁵
⑪ 2x4 ø14 L=1.70 m
90
⑥
⑪
①
12⁵
17⁵
17
5
F
⑮a
B

VEDERE F–F / F–F VIEW

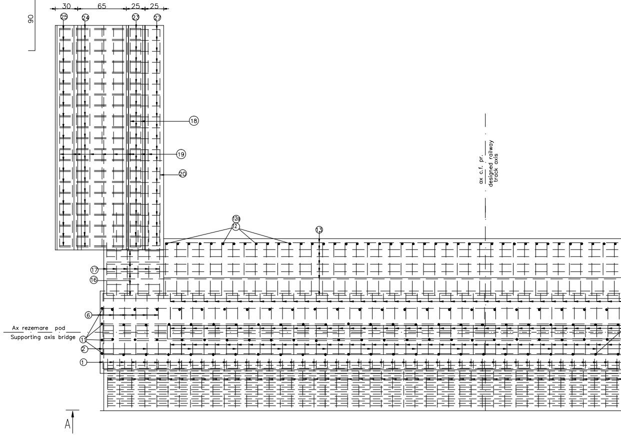

10.20
⑮
⑮
⑮a
⑮a
68x15

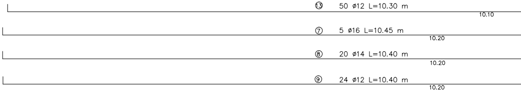
ELEVATION

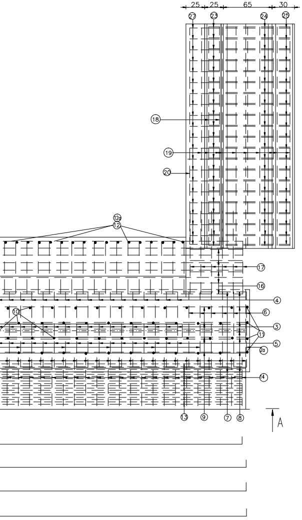

4.30/2
2.40
25
65
30
ax c.f. pr. fir V
designed railway track axis V
⑬
⑫
⑯
⑯ 2x5 ø14 L=2.65m
74
80
90
⑰
④⑤
⑥
③
⑪
5
⑭
F
⑬


15
14x15.4
2.30
15
15a

VEDERE IN PLAN / PLAN VIEW

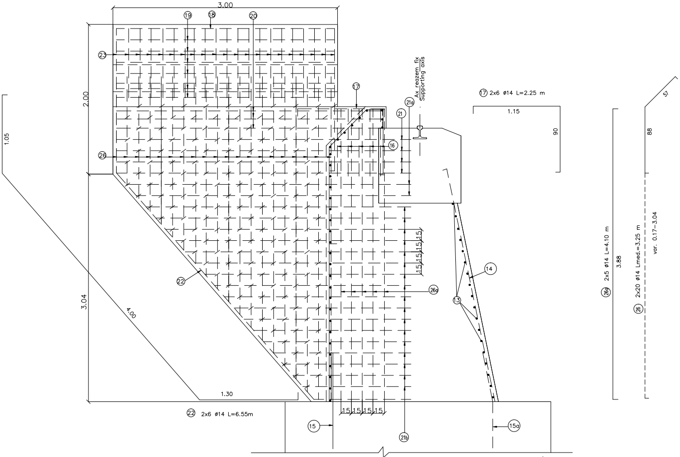

30
65
25
25
㉕
㉔
㉓
㉗
⑱
⑲
⑳
ax c.f. pr.
designed railway track axis
12a
⑫
⑬
⑰
⑯
⑥
Ax rezemare pod
Supporting axis bridge
⑪
②
①
A


⑬ 50 ø12 L=10.30 m
10.10
⑦ 5 ø16 L=10.45 m
10.20
⑧ 20 ø14 L=10.40 m
10.20
⑨ 24 ø12 L=10.40 m
10.20

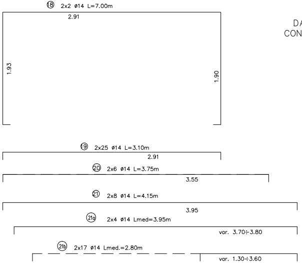


25
25
65
30
27
23
24
25
18
19
20
12a
12
17
16
4
6
3
5
2a
10
11
14
13
9
7
8
A

VEDERE C-C/ C-C VIEW



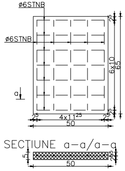
3.00
19
18
20
23
26
2.00
1.05
3.04
4.00
22
1.30
17
21a
21
16
Ax reazem fix
Supporting axis
15
15
15
15
15
15
15
15
26a
14
13
15
15a
21b
⑰ 2x6 ø14 L=2.25 m
1.15
90
57
88
㉖a 2x5 ø14 L=4.10 m
3.88
㉖ 2x20 ø14 Lmed.=3.25 m
var. 0.17–3.04
㉒ 2x6 ø14 L=6.55m



⑱ 2x2 ø14 L=7.00m
2.91
1.93
1.90
⑲ 2x25 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

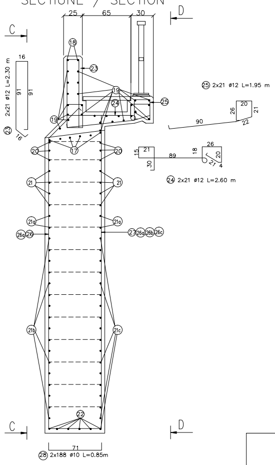
DALE PREFABRICATE DIN BETON ARMATE CU S.T.N.B.
CONCRETE PREFAB SLABS REINFORCED WITH S.T.N.B.

Sc. 1:10
TIP 1/TYPE 1
(6X2 buc. pentru trotuar/6X2 piece for sidewalk)

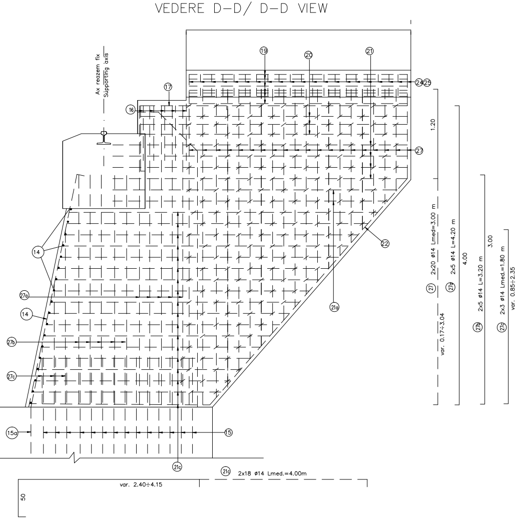


ø6STNB
ø6STNB
2.5
6x10
65
2.5
a
a
2.5
4x11.25
2.5
50
SECTIUNE a–a/a–a SECTION
5
2.5
50

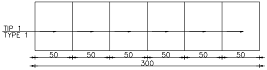
SECTIUNE / SECTION


C
D
25
65
30
18
23
19
24
25
16
91
91
2x21 ø12 L=2.30 m
23
16
25 2x21 ø12 L=1.95 m
20
26
21
90
22
21
15
30
89
18
26
20
4
24 2x21 ø12 L=2.60 m
17
20
21
21a
26a 26
27 26a 26b 26c
21b
21c
22
71
28 2x188 ø10 L=0.85m

VEDERE D–D/ D–D VIEW


Ax reazem fix
Supporting axis
19
20
21
24 25
17
16
27
22
14
27a
27b
27c
21a
1.20
2x20 ø14 Lmed=3.00 m
27
2x5 ø14 L=4.20 m
27a
4.00
2x5 ø14 L=3.20 m
27b
3.00
2x3 ø14 Lmed.=1.80 m
27c
var. 0.85÷2.35
var. 0.17÷3.04
15a
15
21c
21c 2x18 ø14 Lmed.=4.00m
var. 2.40÷4.15
50

DALE PREFABRICATE DIN BETON
CONCRETE PREFAB SLABS
Sc. 1:20


TIP 1
TYPE 1
50
50
50
50
50
50
300

EXTRAS DE ARMATURA STNB PENTRU O CULEE DE CALE FERATA
TABLE FOR REINFORCEMENTS STNB FOR SINGLE ABUTMENT

TIP/TYPE	TIP ARMATURA TYEPE REINFOCEMENT	Nr. BUC. No. PIECE	kg/m	m/buc. m/piece	kg
TIP 1 TYPE 1	STNB 6 G.Q.283	12	0.222	6.15	16,40
				TOTAL	17.00kg

TOTAL POD (2 CULEI) /TOTAL BRIDGE (2 ABUTMENTS): 2 x 17kg=34kg

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.

EXTRAS DE ARMATURA PENTRU O CULEE
REINFORCEMENT FOR ONE ABUTMENT

Marca	Ø	Buc	Lung/buc(m)	S355			S345
				Ø10	Ø12	Ø14	Ø16
1	10	69	3,80	262,20			
2	10	80	4,65	372,00			
2a	10	5	5,80	29,00			
3	12	57	1,00		57,00		
4	10	57	1,25	71,25	0,00		
5	10	57	1,20	68,40			
6	10	12	1,80	21,60			
7	16	5	10,45				52,25
8	14	20	10,40			208,00	
9	12	24	10,40		249,60		
10	10	136	1,05	142,80			
11	14	8	1,70			13,60	
12	12	58	3,30		191,40		
12a	12	58	2,50		145,00		
13	12	50	10,30		515,00		
14	12	68	3,15		214,20		
15	16	94	1,30				122,20
15a	16	68	1,30				88,40
16	14	10	2,65			26,50	
17	14	12	2,25			27,00	
18	14	4	7,00			28,00	
19	14	50	3,10			155,00	
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	6,55			78,60	
23	12	42	2,30		96,60		
24	12	42	2,60		109,20		
25	12	42	1,95		81,90		
26	14	40	Lmed=3,25			130,00	
26a	14	10	4,10			41,00	
27	14	40	Lmed=3,00			120,00	
27a	14	10	4,20			42.00	
27b	14	10	3,20			32,00	
27c	14	6	Lmed=1,80			10,80	
28	10	380	0,85	323,00			
LUNGIMI/Ø (m)				1290,25	1659,90	1294,70	262,85
GREUTATI/ML (kg)				0,617	0,888	1,208	1,578
GREUTATI/Ø				797	1474	1564	415
GREUTATI PE TIP DE OTEL (kg)				3835			415
PIERDERI 5% (kg)				215			
GREUTATE TOTALA CULEE (kg)				4465			

TOTAL 2 CULEI /TOTAL 2 ABUTMENTS : 2 x 4465kg=8930kg

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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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 EURO
EUROPEAN UNION FINANCED P

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

SUBCONTRACTANT / SUBCONTRACTOR

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 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 :

STATIA / STATION: FELDIOARA
POD/BRIDGE Km.192+526.157 L=10.00m
PLAN ARMARE CULEI TABLIER 3

ABUTMENTS REINFORCEMENT DECK 3 PLAN

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

EA51 01 E 07 BC PV 00 7 2 014 0