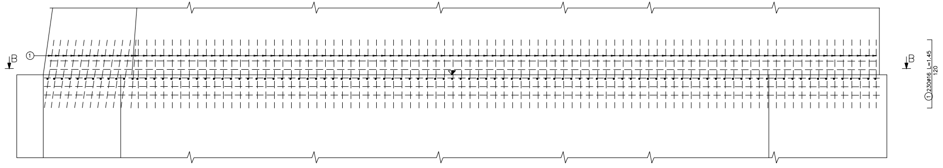
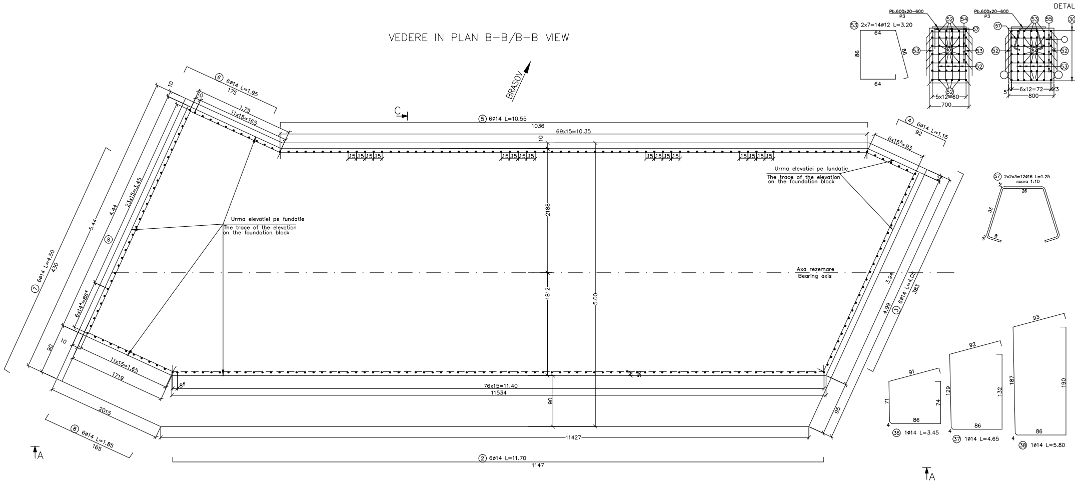
# ARMAREA ROSTULUI ELEVATIE FUNDATIE/REINFORCEMENT RAFT ELEVATION FOUNDATION

## VEDERE DIN FATA A–A CULEEA BRASOV (BUCURESTI)
## BRASOV (BUCURESTI) ABUTMENT A–A VIEW



B
①
B
① 230ø16 L=1.45
120

## VEDERE IN PLAN B–B/B–B VIEW



BRASOV
C
⑥ 6ø14 L=1.95
175
10
1.75
11x15=165
⑤ 6ø14 L=10.55
1036
69x15=10.35
10
15 15 15 15
15 15 15 15
15 15 15 15
15 15 15 15
④ 6ø14 L=1.15
92
6x15⁵=93
Urma elevatiei pe fundatie
The trace of the elevation on the foundation block
⑦ 6ø14 L=4.50
430
5.44
4.44
23x15=3.45
⑧
10
Urma elevatiei pe fundatie
The trace of the elevation on the foundation block
2188
1812
5.00
Axa rezemare
Bearing axis
3.94
4.99
③ 6ø14 L=4.05
383
6x14⁴=86⁴
90
10
11x15=1.65
1719
8⁵
76x15=11.40
11534
55
90
95
2015
⑧ 6ø14 L=1.85
165
11427
② 6ø14 L=11.70
1147
A
A
DETAL
53 2x7=14ø12 L=3.20
64
86
86
64
Pb.600x20-600
P3
52
54
57
53
55
53
52
52
5x12=60
700
Pb.600x20-600
P3
57
53
55
30
52
52
54
53
5
6x12=72
3
800
57 2x2x3=12ø16 L=1.25
scara 1:10
26
33
3⁵
8
91
71
74
86
4
36 1ø14 L=3.45
92
129
132
86
4
37 1ø14 L=4.65
93
187
190
86
4
38 1ø14 L=5.80

# ARMAREA CUZINETILOR SI A BANCHETEI CUZINETILOR/REINFORCEMENT RAFT ELEVATION FOUNDATION

## SECTIUNE E – E
## SECTION E – E

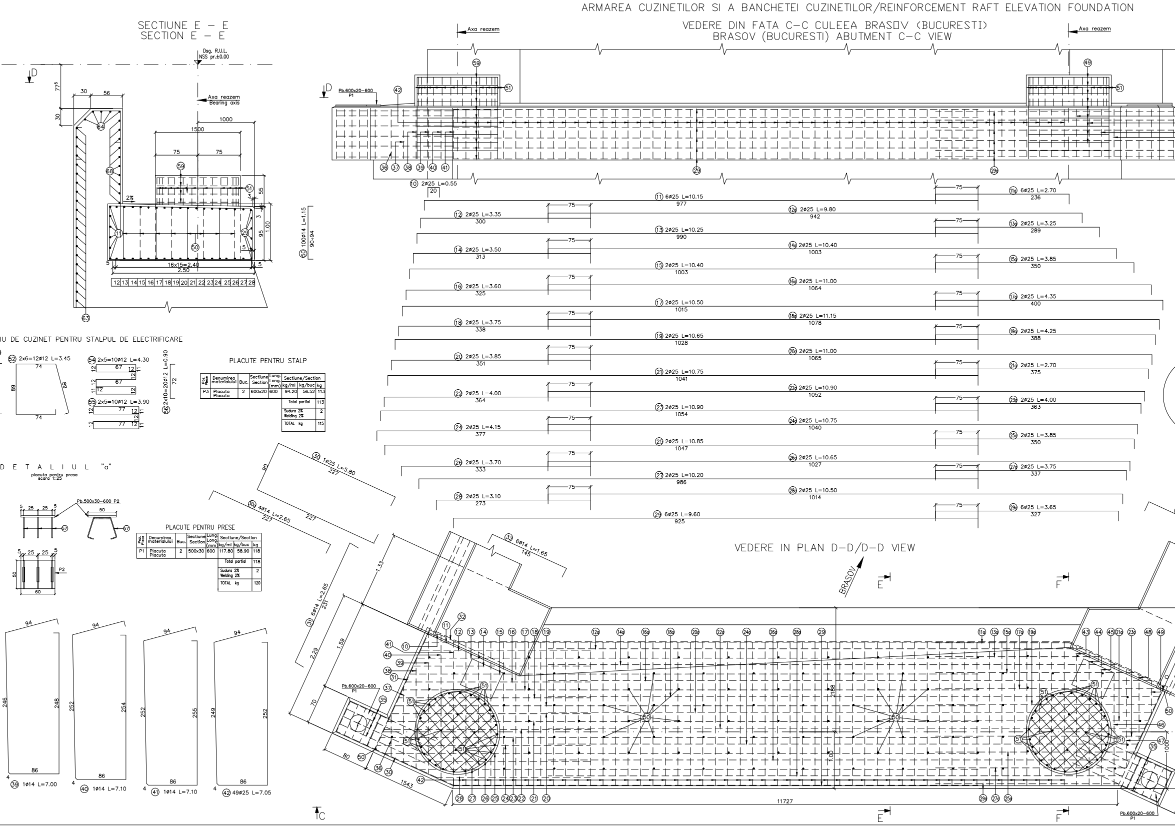
## VEDERE DIN FATA C–C CULEEA BRASOV (BUCURESTI)
## BRASOV (BUCURESTI) ABUTMENT C–C VIEW

## VEDERE IN PLAN D–D/D–D VIEW

IU DE CUZINET PENTRU STALPUL DE ELECTRIFICARE

D E T A L I U L "a"

placuta pentru presa
scara 1:25


Dsg. R.U.L.
NSS pr.±0.00
Axa reazem
Bearing axis
D
77⁵
30
30
56
1000
1500
75
75
59
64
68
2%
51
55
3
3
1.00
95
11
29
50
5
5
5
16x15=2.40
2.50
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
63
50 100ø14 L=1.15
90÷94
Axa reazem
Pb.600x20–600
P1
42
59
51
49
36 37 38 39 40 41
29
29a
10 2ø25 L=0.55
20
11 6ø25 L=10.15
977
11a 6ø25 L=2.70
236
12 2ø25 L=3.35
300
12a 2ø25 L=9.80
942
13 2ø25 L=10.25
990
13a 2ø25 L=3.25
289
14 2ø25 L=3.50
313
14a 2ø25 L=10.40
1003
15 2ø25 L=10.40
1003
15a 2ø25 L=3.85
350
16 2ø25 L=3.60
325
16a 2ø25 L=11.00
1064
17 2ø25 L=10.50
1015
17a 2ø25 L=4.35
400
18 2ø25 L=3.75
338
18a 2ø25 L=11.15
1078
19 2ø25 L=10.65
1028
19a 2ø25 L=4.25
388
20 2ø25 L=3.85
351
20a 2ø25 L=11.00
1065
21 2ø25 L=10.75
1041
21a 2ø25 L=2.70
375
22 2ø25 L=4.00
364
22a 2ø25 L=10.90
1052
23 2ø25 L=10.90
1054
23a 2ø25 L=4.00
363
24 2ø25 L=4.15
377
24a 2ø25 L=10.75
1040
25 2ø25 L=10.85
1047
25a 2ø25 L=3.85
350
26 2ø25 L=3.70
333
26a 2ø25 L=10.65
1027
27 2ø25 L=10.20
986
27a 2ø25 L=3.75
337
28 2ø25 L=3.10
273
28a 2ø25 L=10.50
1014
29 6ø25 L=9.60
925
29a 6ø25 L=3.65
327
75
52 2x6=12ø12 L=3.45
74
89
68
74
54 2x5=10ø12 L=4.30
67
12
11
55 2x5=10ø12 L=3.90
77
56 2x10=20ø12 L=0.90
72
30 1ø25 L=5.80
227
90
30a 4ø14 L=2.65
227
227
32 6ø14 L=1.65
145
31 6ø14 L=2.65
231
1.33
1.59
2.29
70
80
1543
Pb.500x30–600 P2
5 25 25 5
50
57
P2
60
94
246
248
86
39 1ø14 L=7.00
252
254
40 1ø14 L=7.10
255
41 1ø14 L=7.10
249
42 49ø25 L=7.05
4
BRASOV
E
F
C
2.88
1.00
11727
Pb.600x20–600
P1
10 11 12 13 14 15 16 17 18 19
12a 14a 16a 18a 20a 22a 24a 26a 28a 29
11a 13a 15a 17a 19a
43 44 45 21a 23a 48 49
35 36 37 38 39 40 41 42
46 47
50
51
28 27 26 25 24 23 22 21 20
29a 27a 25a

PLACUTE PENTRU STALP

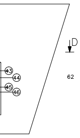
| Poz. Piece | Denumirea materialului | Buc. | Sectiune Section | Lung. Long. (mm) | Sectiune/Section kg/ml | kg/buc | kg |
|---|---|---|---|---|---|---|---|
| P3 | Placuta<br>Placuta | 2 | 600x20 | 600 | 94.20 | 56.52 | 113 |
| | | | | | Total partial | | 113 |
| | | | | | Sudura 2%<br>Welding 2% | | 2 |
| | | | | | TOTAL kg | | 115 |

PLACUTE PENTRU PRESE

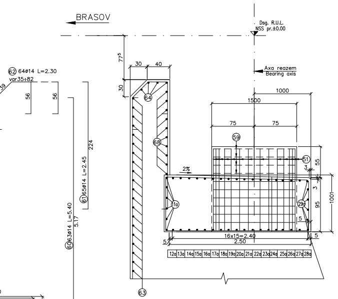
| Poz. Piece | Denumirea materialului | Buc. | Sectiune Section | Lung. Long. (mm) | Sectiune/Section kg/ml | kg/buc | kg |
|---|---|---|---|---|---|---|---|
| P1 | Placuta<br>Placuta | 2 | 500x30 | 600 | 117.80 | 58.90 | 118 |
| | | | | | Total partial | | 118 |
| | | | | | Sudura 2%<br>Welding 2% | | 2 |
| | | | | | TOTAL kg | | 120 |

# ARMAREA CUZINETILOR SI A BANCHETEI CUZINETILOR/RE

## VEDERE DIN FATA G–G CULEEA BRAS
## BRASOV (BUCURESTI) ABUTMENT


D
43
44
45
46
62

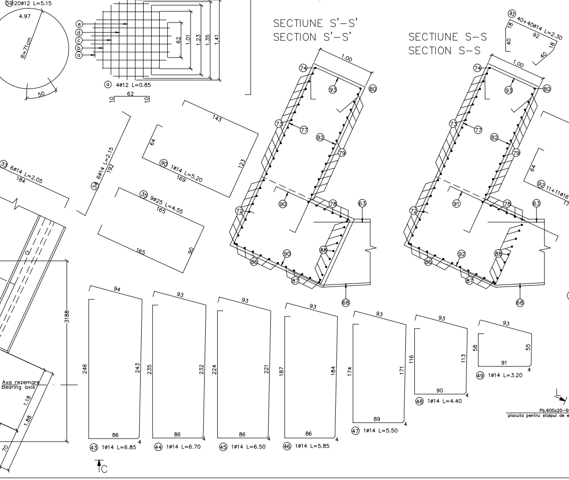
## SECTIUNE F – F
## SECTION F – F

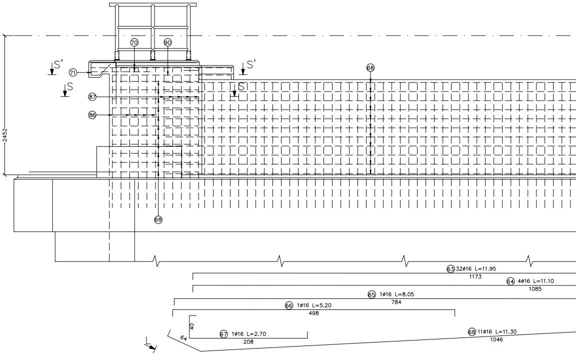

BRASOV
Dsg. R.U.L.
NSS pr.±0.00
Axa reazem
Bearing axis
62 64ø14 L=2.30
var35÷82
39
56
56
56
61 65ø14 L=2.45
224
60 63ø14 L=5.40
5.17
51 2x31=62ø14 L=1.65
1.44
77⁵
30
40
30
64
68
63
1000
1500
75
75
59
51
2%
55
3
3
95
1001
11a
29a
5
5
16x15=2.40
2.50
5
12a 13a 14a 15a 16a 17a 18a 19a 20a 21a 22a 23a 24a 25a 26a 27a 28a

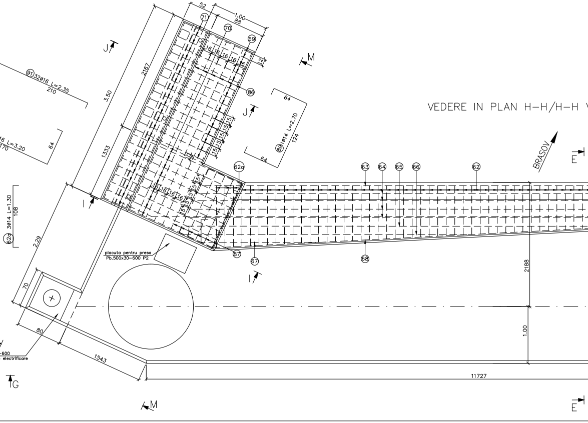
## EXTRAS DE ARMATURA PENTRU O PLASA

| MARCA | DIAMETRU | BUC. ASEMENEA | LUNGIME PE BUCATA | LUNGIME/ø S355 ø12 |
|---|---|---|---|---|
| a | 12 | 4 | 0.85 | 3.40 |
| b | 12 | 4 | 1.20 | 4.80 |
| c | 12 | 4 | 1.45 | 5.80 |
| d | 12 | 4 | 1.55 | 6.20 |
| d | 12 | 4 | 1.60 | 6.40 |
| LUNGIMI PE DIAMETRU (m) | | | | 26.60 |

58 Plasa 2x10=20ø12 L=26.60


59 20ø12 L=5.15
4.97
R=71cm
50
e
d
c
b
a
62
1.01
1.23
1.35
1.41
a 4ø12 L=0.85
62
10
10
SECTIUNE S'–S'
SECTION S'–S'
SECTIUNE S–S
SECTION S–S
1.00
74
80
93
73
77
82
79
72
90
78
63
86
87
88
68
91
92
93 40+40ø14 L=2.30
92
18
18
40
40
143
90 1ø14 L=5.20
169
64
123
91 32ø16 L=2.35
210
92 11+11ø16 L=3.20
170
64
64
33 6ø14 L=2.05
184
34 6ø14 L=2.15
192
35 9ø25 L=4.55
165
165
90
62a 3ø14 L=1.30
108
3188
Axa rezemare
Bearing axis
1.18
1.88
70
C
94
246
243
86
43 1ø14 L=6.85
4
93
235
232
86
44 1ø14 L=6.70
4
93
224
221
86
45 1ø14 L=6.50
4
93
187
184
86
46 1ø14 L=5.85
4
93
174
171
89
47 1ø14 L=5.50
4
93
116
113
90
48 1ø14 L=4.40
4
93
58
55
91
49 1ø14 L=3.20
4
Pb.600x20–600
placuta pentru stalpul de electrificare
L
G

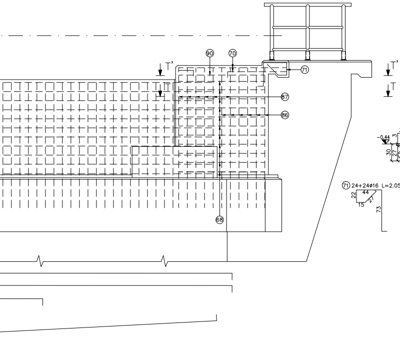

H
70
90
S'
S'
71
S
S
87
86
68
2452
68
63 32ø16 L=11.95
1173
64 4ø16 L=11.10
1085
65 1ø16 L=8.05
784
66 1ø16 L=5.20
498
40
64
67 1ø16 L=2.70
208
68 11ø16 L=11.30
1046


VEDERE IN PLAN H–H/H–H V
L
J
J
M
M
I
I
E
E
BRASOV
3.50
2167
1333
52
1.00
88
71
70
69
16
16
16
16
12
86
15
15
15
15
64
89 1ø14 L=2.70
124
64
62a
63
64
65
66
62
16
16
16
15
15
15
15
87
67
68
2.29
placuta pentru presa
Pb.500x30–600 P2
70
80
1543
2188
1.00
11727

INFORCEMENT RAFT ELEVATION FOUNDATION

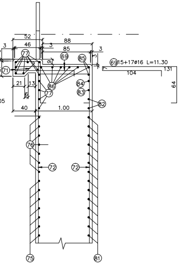
OV (BUCURESTI)

G-G VIEW

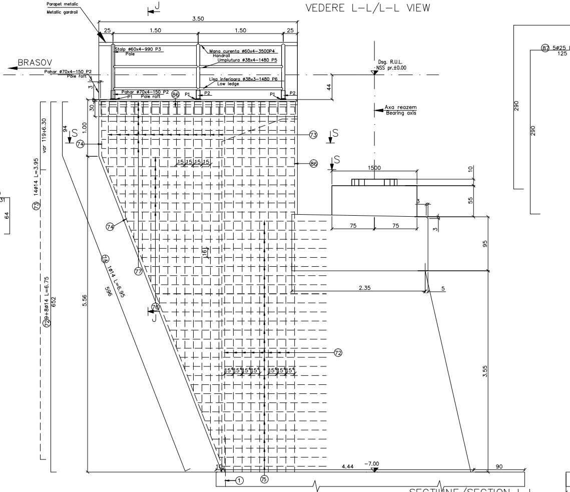

H
T'
T
90
70
71
87
86
68
71 24+24ø16 L=2.05
44
22
15
27
73

SECTIUNE J-J

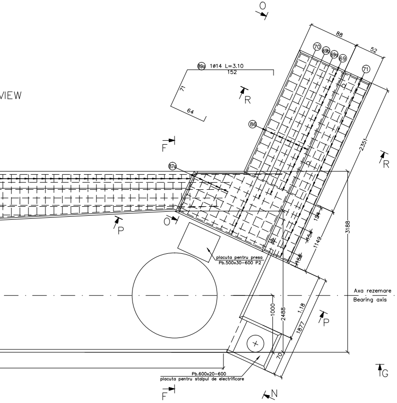
SECTION J-J


52
46
88
85
3
-0.44
77
69
85
30
27
71
86
84
83
21
13
6
77
40
1.00
82
76
72
72
75
81
69 15+17ø16 L=11.30
104
131
64

VEDERE L-L/L-L VIEW

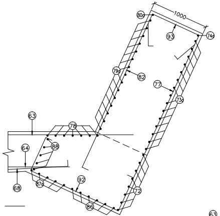

Parapet metalic
Metallic gardrail
J
3.50
25
1.50
1.50
25
Stalp ø60x4-990 P3
Pole
Mana curenta ø60x4-3500P4
Handrail
Umplutura ø38x4-1480 P5
Lisa inferioara ø38x3-1480 P6
Low ledge
BRASOV
Pahar ø70x4-150 P2
Pole raft
Pahar ø70x4-150 P2
P1 Pole raft
86
P1
P2
Dsg. R.U.L.
NSS pr.±0.00
44
Axa reazem
Bearing axis
73 14ø14 L=3.95
var 119÷6.30
72 9+8ø14 L=6.75
652
94
S
74
1.00
30
3
73
86
S
S
1500
10
55
3
75
75
15 15 15 15
16
74
77
74 1ø14 L=6.95
596
5.56
2.35
5
95
76
J
72
3.55
15 15 15 15 15 15 15
10
4.44
-7.00
90
1
75
290
290
87 5ø25
125

VIEW


O
88
52
70
69a
69a
69
71
89a 1ø14 L=3.10
152
71
64
R
86
2351
R
F
87a
3188
P
O
134
1149
15
placuta pentru presa
Pb.500x30-600 P2
Axa rezemare
Bearing axis
1000
2488
1.18
1877
P
70
Pb.600x20-600
placuta pentru stalpul de electrificare
G
F
N

SECTIUNE T-T

SECTION T-T


80a
1000
93
74a
79a
82
77
73a
63
78
64
88
68
87a
92
72
86

75 28ø16 L=2.90

var 183÷351

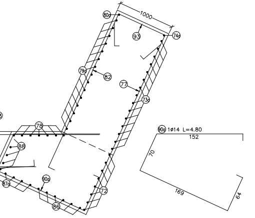
76 7ø16 L=3.50

var 312÷338

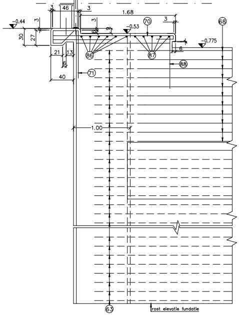
77 12+12ø16 L=3.65

SECTIUNE T'-T'

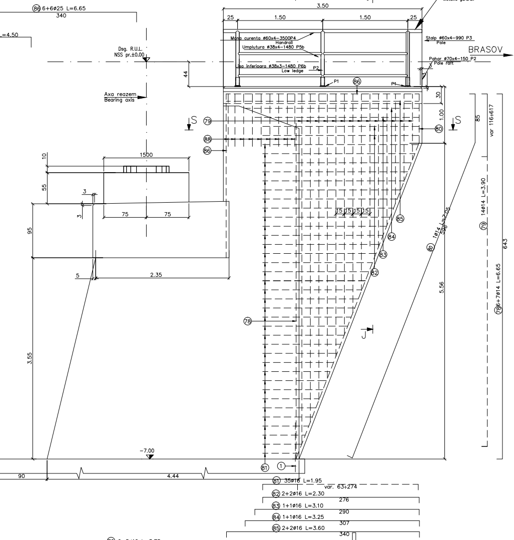
SECTION T'-T'

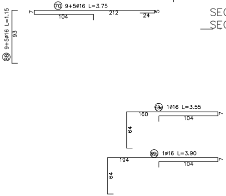

80a
1000
93
74a
79a
82
77
73a
63
78
64
88
68
87a
80a
72
86
90a 1ø14 L=4.80
152
70
169
64

SECTIUNE/SECTION I-I

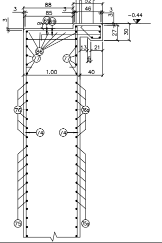

-0.44
3
46
3
1.68
3
30
27
-0.53
70
3
68
86
87
6
-0.775
21
13
6
40
71
88
1.00
63
rost elevatie fundatie

## VEDERE M-M/M-M VIEW

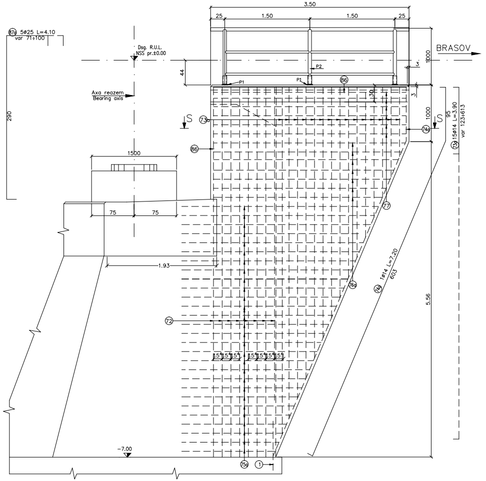

Parapet metalic
Metallic gardrail
3.50
25
1.50
1.50
25
86 6+6ø25 L=6.65
340
L=4.50
Mana curenta ø60x4-3500P4
Handrail
Umplutura ø38x4-1480 P5b
Lisa inferioara ø38x3-1480 P6b
Low ledge
Stalp ø60x4-990 P3
Pole
Pahar ø70x4-150 P2
Pole raft
P1
P2
Dsg. R.U.L.
NSS pr.±0.00
BRASOV
Axa reazem
Bearing axis
44
30
1.00
85
S
79
80
88
86
1500
10
55
3
75
95
3
5
2.35
15 15 15 15
85
84
83
82
78
J
3.55
5.56
-7.00
81
1
90
4.44
80 1ø14 L=7.05
596
79 14ø14 L=3.90
var 116÷617
78 6+7ø14 L=6.65
643
81 35ø16 L=1.95
var. 63÷274
82 2+2ø16 L=2.30
276
83 1+1ø16 L=3.10
290
84 1+1ø16 L=3.25
307
85 2+2ø16 L=3.60
340

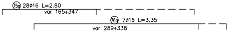

70 9+5ø16 L=3.75
7
104
212
24
5
88 9+5ø16 L=1.15
93
69a 1ø16 L=3.55
160
104
64
69b 1ø16 L=3.90
194
104
64

## SECTIUNE R-R
## SECTION R-R

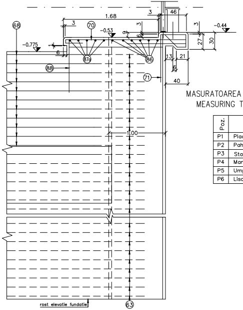

88
85
52
46
3
3
3
3
-0.44
68
69
86
77
77
13
21
27
30
6
1.00
40
76
76a
74
74
75
75a

## VEDERE N-N/N-N VIEW


3.50
25
1.50
1.50
25
87a 5ø25 L=4.10
var 71÷100
Dsg. R.U.L.
NSS pr.±0.00
BRASOV
P1
P2
86
44
1000
3
30
Axa reazem
Bearing axis
290
S
73a
74a
73a 15ø14 L=3.90
var 123÷613
95
86
1500
75
75
1.93
77
76a
74a 1ø14 L=7.20
603
72
15 15 15 15 15 15
5.56
-7.00
75a
1


75a 28ø16 L=2.80
var 165÷347
76a 7ø16 L=3.35
var 289÷338

## SECTIUNE/SECTION P-P

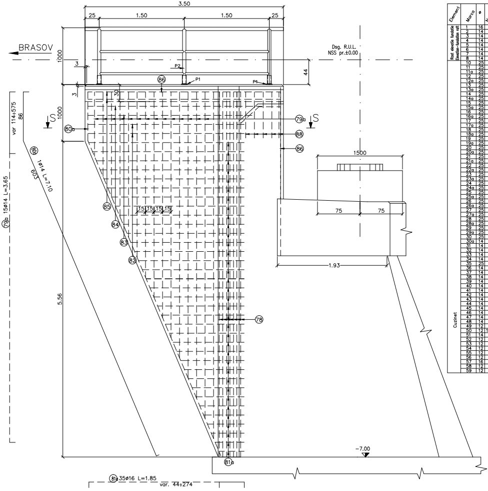

68
1.68
3
46
3
70
-0.53
-0.775
6
9
5
-0.44
27
30
87a
86
13
21
6
40
88
71
1.00
rost elevatie fundatie
63

### MASURATOAREA MATERIALULUI METALIC NECESAR PENTRU PARAPETUL UNEI CULEI
### MEASURING THE METALLIC MATERIAL FOR PARAPET OF ONE ABUTMENT

| Poz. | Denumirea materialului<br>Piece denomination | Buc.<br>Pcs. | Sectiune<br>Section | Lung.<br>Length.<br>(mm) | Greutati – Weight | | |
|---|---|---|---|---|---|---|---|
| | | | | | kg/ml | kg/buc | kg |
| P1 | Placuta prindere pahar – Polate plate | 6 | 100x10 | 150 | 7.85 | 1.18 | 7 |
| P2 | Pahar stalp parapet – Pole raft | 6 | 70x4 | 150 | 6.51 | 0.98 | 6 |
| P3 | Stalp parapet – Pole | 6 | 60x4 | 990 | 5.52 | 5.45 | 33 |
| P4 | Mana curenta – Handrail | 2 | 60x4 | 3500 | 5.52 | 19.32 | 40 |
| P5 | Umplutura | 4 | 38x4 | 1480 | 3.35 | 4.95 | 20 |
| P6 | Lisa inferioara – Low ledge | 4 | 38x4 | 1480 | 3.35 | 4.95 | 20 |
| | | | | | Total partial<br>Partial total | | 126 |
| | | | | | Sudura 2%<br>Welding 2% | | 4 |
| | | | | | TOTAL (kg) | | 130 |

TOTAL PENTRU AMBELE CULEI (kg) 2X130=260 kg
TOTAL FOR TWO ABUTMENTS (kg) 2X130=260 kg

### VEDERE O-O/O-O VIEW


3.50
25
1.50
1.50
25
BRASOV
1000
3
P2
P1
P1
86
Dsg. R.U.L.
NSS pr.±0.00
44
3
30
S
S
1000
var 114÷575
86
80a
79a
88
86
80a
1ø14 L=7.10
603
15ø14 L=3.65
79a
1500
75
75
1.93
15 15 15 15
85
84
83
82
5.56
78
-7.00
81a
81a 35ø16 L=1.85
var. 44÷274

## EXTRAS DE ARMATURA PENTRU O CULEE
## MEASURING OF THE REINFORCEMENTS FOR A ABUTMENT

| Element | Marca | ø | Nr. Buc. | Lung/buc. | LUNGIME/ø | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | S355 | | S345 | |
| | | | | | ø12 | ø14 | ø16 | ø25 |
| Rost elevatie fundatie Elevation-fundation raft | 1 | 16 | 230 | 1.45 | | | 333.50 | |
| | 2 | 14 | 6 | 11.70 | | 70.20 | | |
| | 3 | 14 | 6 | 4.05 | | 24.30 | | |
| | 4 | 14 | 6 | 1.15 | | 6.90 | | |
| | 5 | 14 | 6 | 10.55 | | 63.30 | | |
| | 6 | 14 | 6 | 1.95 | | 11.70 | | |
| | 7 | 14 | 6 | 4.50 | | 27.00 | | |
| | 8 | 14 | 6 | 1.85 | | 11.10 | | |
| Cuzinet | 10 | 25 | 2 | 0.55 | | | | 1.10 |
| | 11 | 25 | 6 | 10.15 | | | | 60.90 |
| | 11a | 25 | 6 | 2.70 | | | | 5.40 |
| | 12 | 25 | 2 | 3.35 | | | | 6.70 |
| | 12a | 25 | 2 | 9.80 | | | | 19.60 |
| | 13 | 25 | 2 | 10.25 | | | | 20.50 |
| | 13a | 25 | 2 | 3.25 | | | | 6.50 |
| | 14 | 25 | 2 | 3.50 | | | | 7.00 |
| | 14a | 25 | 2 | 10.40 | | | | 20.80 |
| | 15 | 25 | 2 | 10.40 | | | | 20.80 |
| | 15a | 25 | 2 | 3.85 | | | | 7.70 |
| | 16 | 25 | 2 | 3.60 | | | | 7.20 |
| | 16a | 25 | 2 | 11.00 | | | | 22.00 |
| | 17 | 25 | 2 | 10.50 | | | | 21.00 |
| | 17a | 25 | 2 | 4.35 | | | | 8.70 |
| | 18 | 25 | 2 | 3.75 | | | | 7.50 |
| | 18a | 25 | 2 | 11.15 | | | | 22.30 |
| | 19 | 25 | 2 | 10.65 | | | | 21.30 |
| | 19a | 25 | 2 | 4.25 | | | | 8.50 |
| | 20 | 25 | 2 | 3.85 | | | | 7.70 |
| | 20a | 25 | 2 | 11.00 | | | | 22.00 |
| | 21 | 25 | 2 | 10.75 | | | | 21.50 |
| | 21a | 25 | 2 | 2.70 | | | | 5.40 |
| | 22 | 25 | 2 | 4.00 | | | | 8.00 |
| | 22a | 25 | 2 | 10.90 | | | | 21.80 |
| | 23 | 25 | 2 | 10.90 | | | | 21.80 |
| | 23a | 25 | 2 | 4.00 | | | | 8.00 |
| | 24 | 25 | 2 | 4.15 | | | | 8.30 |
| | 24a | 25 | 2 | 10.75 | | | | 21.50 |
| | 25 | 25 | 2 | 10.85 | | | | 21.70 |
| | 25a | 25 | 2 | 3.85 | | | | 7.70 |
| | 26 | 25 | 2 | 3.70 | | | | 7.40 |
| | 26a | 25 | 2 | 10.65 | | | | 21.30 |
| | 27 | 25 | 2 | 10.20 | | | | 20.40 |
| | 27a | 25 | 2 | 3.75 | | | | 7.50 |
| | 28 | 25 | 2 | 3.10 | | | | 6.20 |
| | 28a | 25 | 2 | 10.50 | | | | 21.00 |
| | 29 | 25 | 6 | 9.60 | | | | 57.60 |
| | 29a | 25 | 6 | 3.65 | | | | 21.90 |
| | 30 | 25 | 1 | 5.80 | | | | 5.80 |
| | 30a | 14 | 4 | 2.65 | | 10.60 | | |
| | 31 | 14 | 6 | 2.65 | | 15.90 | | |
| | 32 | 14 | 6 | 1.65 | | 9.90 | | |
| | 33 | 14 | 6 | 2.05 | | 12.30 | | |
| | 34 | 14 | 6 | 2.15 | | 12.90 | | |
| | 35 | 25 | 9 | 4.55 | | | | 40.95 |
| | 36 | 14 | 1 | 3.45 | | 3.45 | | |
| | 37 | 14 | 1 | 4.65 | | 4.65 | | |
| | 38 | 14 | 1 | 5.80 | | 5.80 | | |
| | 39 | 14 | 1 | 7.00 | | 7.00 | | |
| | 40 | 14 | 1 | 7.10 | | 7.10 | | |
| | 41 | 14 | 1 | 7.10 | | 7.10 | | |
| | 42 | 14 | 4 | 7.05 | | 28.20 | | |
| | 43 | 14 | 1 | 6.85 | | 6.85 | | |
| | 44 | 14 | 1 | 6.70 | | 6.70 | | |
| | 45 | 14 | 1 | 6.50 | | 6.50 | | |
| | 46 | 14 | 1 | 5.85 | | 5.85 | | |
| | 47 | 14 | 1 | 5.50 | | 5.50 | | |
| | 48 | 14 | 1 | 4.40 | | 4.40 | | |
| | 49 | 12 | 1 | 3.20 | | 3.20 | | |
| | 50 | 12 | 100 | 1.15 | | 115.00 | | |
| | 51 | 14 | 62 | 1.65 | | 102.30 | | |
| | 52 | 12 | 12 | 3.45 | | 41.40 | | |
| | 53 | 12 | 14 | 3.20 | | 44.80 | | |
| | 54 | 12 | 10 | 4.30 | | 43.00 | | |
| | 55 | 12 | 10 | 3.90 | | 39.00 | | |
| | 56 | 12 | 20 | 0.90 | | 18.00 | | |
| | 57 | 16 | 12 | 1.25 | | 15.00 | | |
| | 58 | 12 | 20 | 26.60 | 532.00 | | | |
| | 59 | 12 | 20 | 5.15 | 103.00 | | | |

| Element | Marca | ø | Nr. Buc. | Lung/buc. | LUNGIME/ø | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | S355 | | S345 | |
| | | | | | ø12 | ø14 | ø16 | ø25 |
| Zid de garda | 60 | 14 | 63 | 5.40 | | 340.20 | | |
| | 61 | 14 | 65 | 2.45 | | 159.25 | | |
| | 62 | 14 | 64 | 2.30 | | 147.20 | | |
| | 62a | 14 | 3 | 1.30 | | 3.90 | | |
| | 63 | 16 | 32 | 11.95 | | | 382.40 | |
| | 64 | 16 | 4 | 11.10 | | | 44.40 | |
| | 65 | 16 | 1 | 8.05 | | | 8.05 | |
| | 66 | 16 | 1 | 5.20 | | | 5.20 | |
| | 67 | 16 | 1 | 2.70 | | | 2.70 | |
| | 68 | 16 | 11 | 11.30 | | | 124.30 | |
| Zid intors stanga | 69 | 16 | 15 | 3.25 | | | 48.75 | |
| | 70 | 16 | 9 | 3.75 | | | 33.75 | |
| | 71 | 16 | 24 | 2.05 | | | 49.20 | |
| | 72 | 14 | 9 | 6.75 | | 60.75 | | |
| | 73 | 14 | 14 | 3.95 | | 55.30 | | |
| | 74 | 14 | 1 | 6.95 | | 6.95 | | |
| | 75 | 16 | 28 | 2.90 | | | 81.20 | |
| | 76 | 16 | 7 | 3.50 | | | 24.50 | |
| | 77 | 16 | 12 | 3.65 | | | 43.80 | |
| | 78 | 16 | 6 | 6.65 | | | 39.90 | |
| | 79 | 14 | 14 | 3.90 | | 54.50 | | |
| | 80 | 14 | 1 | 7.05 | | 7.05 | | |
| | 81 | 16 | 35 | 1.95 | | | 68.25 | |
| | 82 | 16 | 2 | 2.30 | | | 4.60 | |
| | 83 | 16 | 1 | 3.10 | | | 3.10 | |
| | 84 | 16 | 1 | 3.25 | | | 3.25 | |
| | 85 | 16 | 2 | 3.60 | | | 7.20 | |
| | 86 | 25 | 6 | 6.65 | | | | 39.90 |
| | 87 | 25 | 5 | 4.50 | | | | 22.50 |
| | 88 | 16 | 9 | 1.15 | | | 10.35 | |
| | 89 | 14 | 1 | 2.70 | | 2.70 | | |
| | 90 | 14 | 1 | 5.20 | | 5.20 | | |
| | 91 | 16 | 32 | 2.35 | | | 75.20 | |
| | 92 | 16 | 11 | 3.20 | | | 35.20 | |
| | 93 | 14 | 40 | 2.30 | | 92.00 | | |
| Zid intors dreapta | 69 | 16 | 17 | 3.25 | | | 55.25 | |
| | 69a | 16 | 1 | 3.55 | | | 3.55 | |
| | 69b | 16 | 1 | 3.90 | | | 3.90 | |
| | 70 | 16 | 5 | 3.75 | | | 18.75 | |
| | 71 | 16 | 24 | 2.05 | | | 49.20 | |
| | 72 | 14 | 8 | 6.75 | | 54.00 | | |
| | 73a | 14 | 15 | 3.90 | | 58.50 | | |
| | 74a | 14 | 1 | 7.20 | | 7.20 | | |
| | 75a | 16 | 28 | 2.80 | | | 78.40 | |
| | 76a | 16 | 7 | 3.35 | | | 23.45 | |
| | 77 | 16 | 12 | 3.65 | | | 43.80 | |
| | 78 | 16 | 7 | 5.65 | | | 39.55 | |
| | 79a | 14 | 15 | 3.65 | | 54.75 | | |
| | 80a | 14 | 1 | 7.10 | | 7.10 | | |
| | 81a | 16 | 35 | 1.85 | | | 64.75 | |
| | 82 | 16 | 2 | 2.30 | | | 4.60 | |
| | 83 | 16 | 1 | 3.10 | | | 3.10 | |
| | 84 | 16 | 1 | 3.25 | | | 3.25 | |
| | 85 | 16 | 2 | 3.60 | | | 7.20 | |
| | 86 | 25 | 6 | 6.65 | | | | 39.90 |
| | 87a | 25 | 5 | 4.10 | | | | 20.50 |
| | 88 | 16 | 5 | 1.15 | | | 5.75 | |
| | 89a | 14 | 1 | 4.30 | | 4.30 | | |
| | 90 | 14 | 1 | 4.80 | | 4.80 | | |
| | 92 | 16 | 11 | 3.20 | | | 35.20 | |
| | 93 | 14 | 40 | 2.30 | | 92.00 | | |
| | | | | | | | | |
| | | | | | | | | |
| | Lungimi/ø | | | | 635.00 | 2014.55 | 1455.80 | 803.35 |
| | Greutati/ml | | | | 0.888 | 1.208 | 1.578 | 3.853 |
| | Greutati/ø | | | | 565 | 2435 | 2300 | 3100 |
| | TOTAL | | | | 8400Kg | | | |
| | Pierderi 5% | | | | 420Kg | | | |
| TOTAL 1 CULEE | | | | | 8620Kg | | | |
| TOTAL 2 CULEI | | | | | 2X8620=17240Kg | | | |

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Beton:
Concrete:
- C20/25 Beton armat in cuzineti si in bancheta cuzinetilor /
Reinforced concrete in the cushions and cushions bench;
- C20/25 Beton armat in elevatie si in zidurile intoarse/
Reinforced concrete in the elevation infrastructure and reverted walls;
-C16/20 Beton simplu in fundatii/Plain concrete in abutments foundations;

Armatura:
Reinforcement:
- S355; S345

Strat de acoperire:
Concrete cover
- min. 4 cm expunere in aer/air exposed
- min. 5 cm expunere in pamant/gravel exposed

## ATENTIE/ATENTION

Aprovizionarea aparatelor de reazem se va face inaintea executarii cuzinetilor si a banchetei acestora. In cazul in care inaltimea aparatelor de reazem aprovizionate difera fata de cea considerata in proiect se vor modifica inaltimile pe reazem corespunzator cu noile aparate.

The bearing blocks shall be supplied before building the bearings and their seats. In case the height of the supplied bearing blocks differs from that given in the project, the heights on the seats shall be adjusted so as to comply with the new devices.

| Indice<br>Index | Data<br>Date | Modificare<br>Modification/Revision | Proiectant<br>Designer | Aprobat Consultant<br>Approved Consultant | Aprobat CFR<br>Approved CFR |
|---|---|---|---|---|---|
| D | | | | | |
| C | | | | | |
| B | | | | | |
| A | 12.2011 | Revizia 1<br>1 Revision | Dinu Andreea | | |

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EURO
EUROPEAN UNION FINANCED PR

C.N.C.F. "C.F.R." - S.A.

**CLIENT / CLIENT**

GRUPPO FERROVIE DELLO STATO
*Joint Venture leader*

**CONSULTANT / CONSULTANT**

| | | | Data<br>Date | Semnătură<br>Signature |
|---|---|---|---|---|
| Aprobat<br>Approved | Şef proiect<br>Project manager | R. Liuzza | | |
| Aprobat<br>Approved | Coordonator Secţiune 1<br>Section 1 Coordinator | C. Gambelli | | |
| Verificat<br>Checked | Expert Cheie<br>Checking Expert | V.Kallidromitis | | |

**SUBCONTRACTANT / SUBCONTRACTOR**

| | | | | |
|---|---|---|---|---|
| Aprobat<br>Approved | Responsabil Subconsultant<br>Subconsultant Responsible | A. Dinulescu Stanciu | 12.2011 | |
| Întocmit<br>Elaborated | Proiectant<br>Designer | Dinu Andreea | 12.2011 | |

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 :

**INTERVAL / SECTION BOD - FELDIOARA**
**Pod Km 184+837.54 - D=45.00m - PLAN ARMARE CULEI**
**Bridge Km 184+837.54 - REINFORCEMENT ABUTMENTS PLANE**

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

EA51 01 E 06 BC PV 00 3 2 006 1