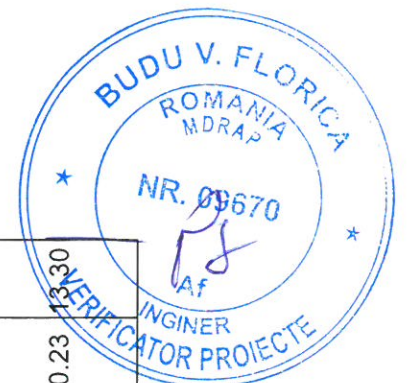
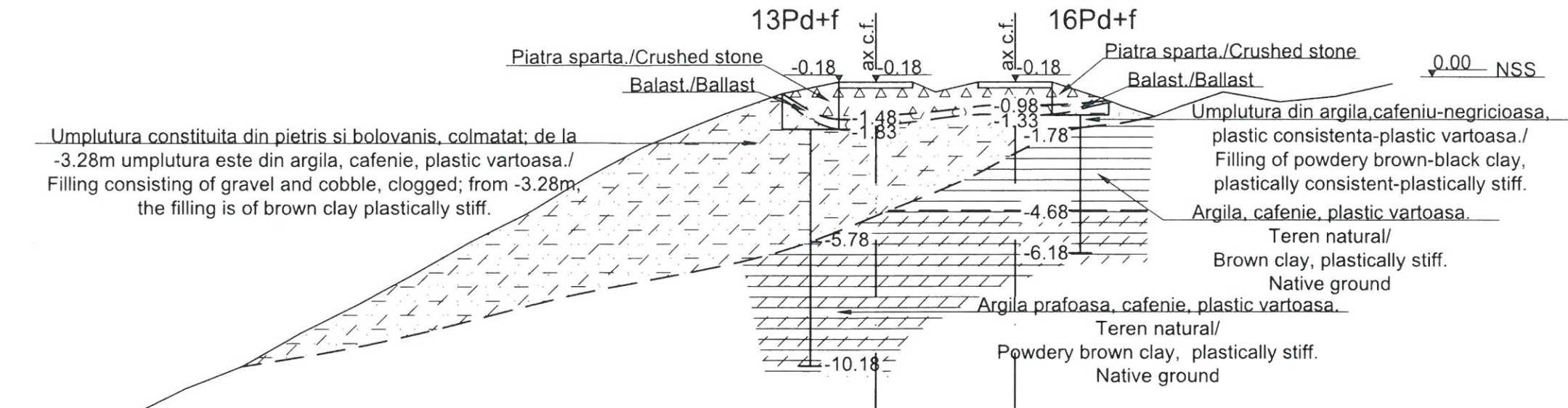


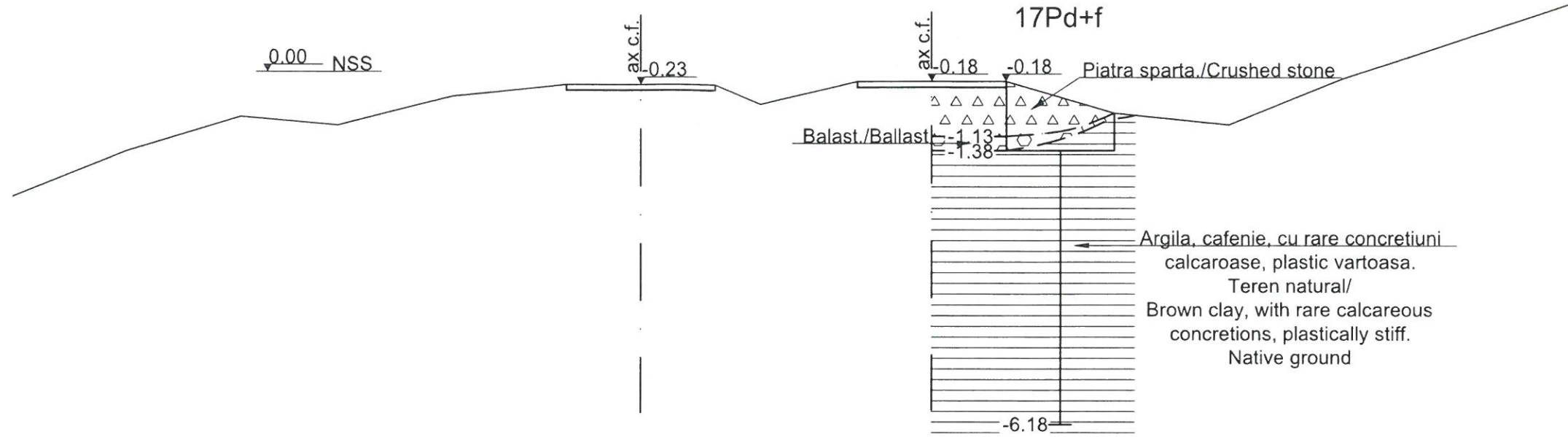
km 33+870



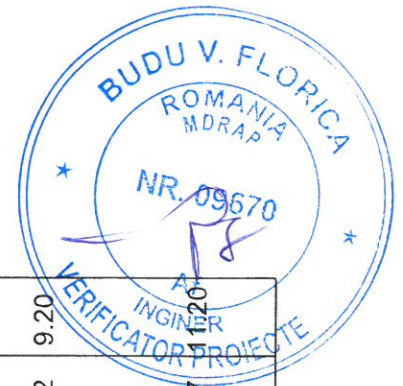
Teren	Distante	-15.18-35.20	-13.18-33.20	-11.98-31.20	-10.98-29.20	-10.18-27.20	-9.03-25.20	-8.03-23.20	-6.93-21.20	-5.78-19.20	-4.78-17.20	-3.58-15.20	-2.48-13.20	-1.68-11.20	-1.28-10.20	-0.58-8.20	-0.18-6.20	-0.18-4.90	-0.18-3.60	-0.53-2.80	-0.18-1.30	-0.18-0.00	-0.18-1.30	3.30	3.80	4.90	5.80	7.30	9.30	11.30	13.30
	Cote	-15.18	-13.18	-11.98	-10.98	-10.18	-9.03	-8.03	-6.93	-5.78	-4.78	-3.58	-2.48	-1.68	-1.28	-0.58	-0.18	-0.18	-0.18	-0.53	-0.18	-0.18	-0.18	-0.83	-1.03	-1.38	-1.03	-0.53	-0.88	-0.68	-0.23

	PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY		
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	& Ingenieria	DENUMIRE PROJECT/ DENUMIRE LUCRARE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: ing. Gh. Neata	SEMNTURA/ SIGNATURE: 	SPECIALITATE/ SPECIALITY:	STUDIU GEOTEHNIC Puncte periculoase	
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu		DENUMIRE PLAN/ DRAWING TITLE:	Profil transversal km 33+870	
MP/PM: ing. M. Baicu		EXEMPLAR NR./ EXEMPLARY NO.:	COD PLAN/ CODIFICATION SYSTEM:	
DATA/DATE: 03.2018	SCARA/SCALE: 1:100	1	SG 207 Lot 2 19 C01 01 00	

km 34+060

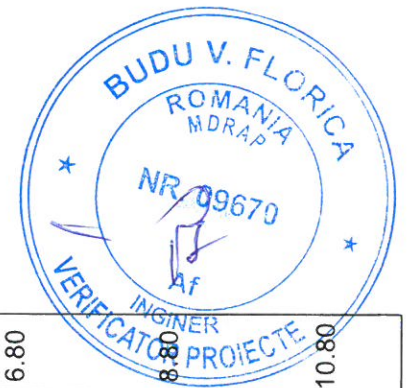
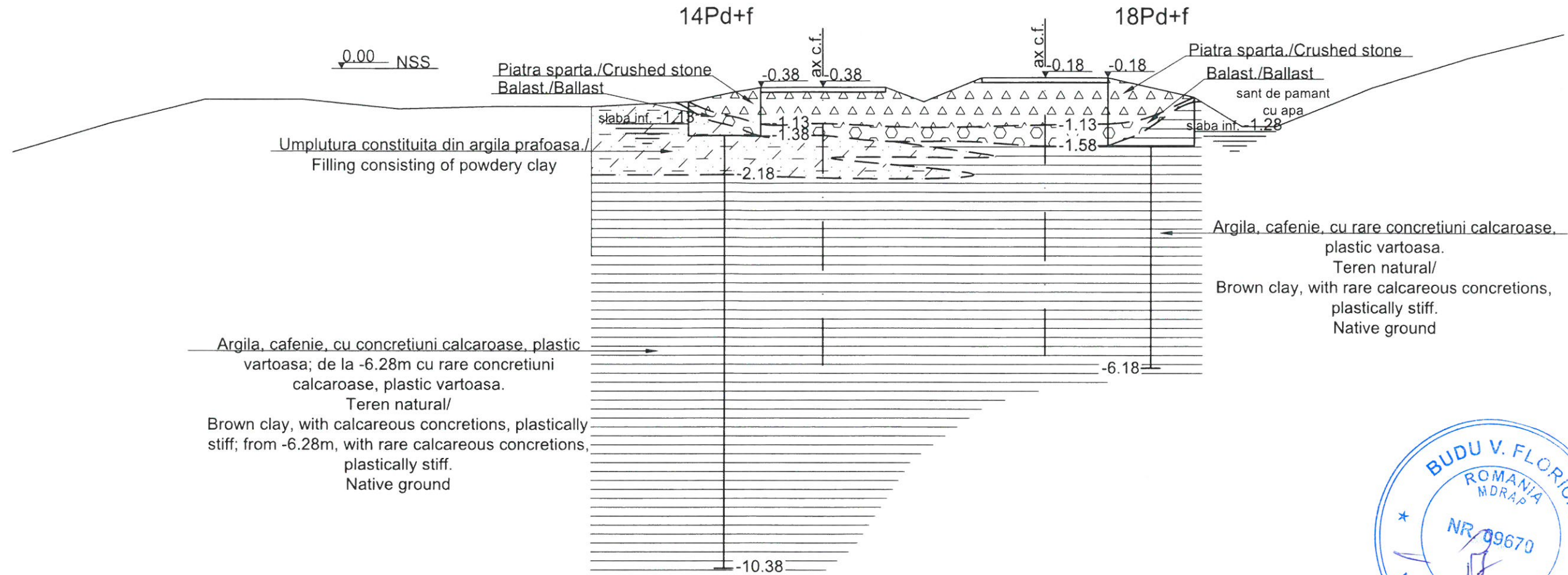


Teren	Distanțe	-16.10	-14.10	-12.10	-10.40	-8.40	-6.40	-5.10	-3.80	-3.00	-1.30	0.00	1.30	3.20	5.20	7.20	9.20	1.17
	Cote	-2.18	-1.38	-0.78	-0.73	-0.43	-0.23	-0.23	-0.23	-0.58	-0.18	-0.18	-0.18	-0.73	-0.93	-0.13	0.52	1.17



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR/BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/DESIGNER: & ASOCIEREA/JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		DENUMIRE PROIECT/DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/DESIGNER: ing. Gh. Neata EXPERT CHEIE/KEY EXPERT: ing. C. Grosu MP/PM: ing. M. Baicu		DENUMIRE PLAN/DRAWING TITLE: STUDIU GEOTEHNIC Puncte periculoase Profil transversal km 34+060	
DATA/DATE: 03.2018		SCARA/SCALE: 1:100	
EXEMPLAR NR./EXEMPLARY NO.: 1		COD PLAN/CODIFICATION SYSTEM: SG 207 Lot 2 19 C01 02 00	

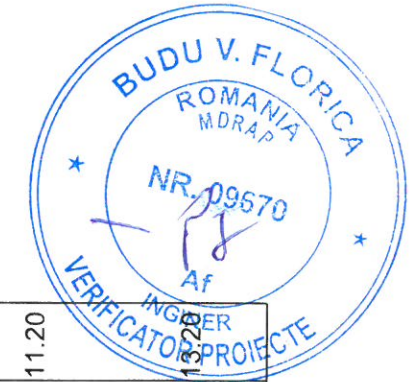
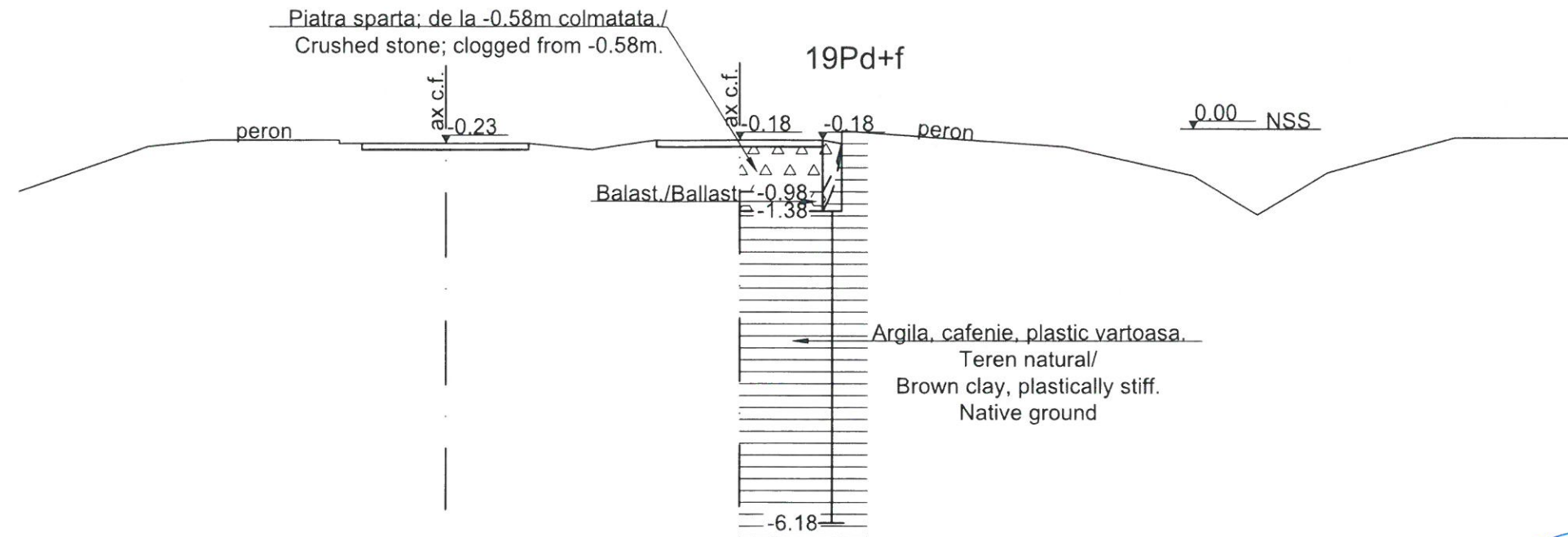
km 34+260



Teren	Distante	-21.40	-19.40	-17.40	-15.40	-13.40	-11.40	-9.40	-7.40	-5.90	-4.60	-3.30	-2.50	-1.30	0.00	1.30	3.10	4.10	4.80	6.80	8.80	10.80
	Cote	-1.73	-1.13	-0.63	-0.63	-0.83	-0.78	-0.78	-0.68	-0.38	-0.38	-0.38	-0.68	-0.18	-0.18	-0.18	-0.58	-1.18	-1.18	-0.38	0.22	0.72

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR / BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT / DESIGNER:	ASOCIEREA / JOINT VENTURE: &	DENUMIRE PROIECT / DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	PROJECT TITLE / WORKS TITLE:
SUBCONTRACTANT / GEO - SERV SRL SUBCONTRACTOR: JI40/12943/1994	J40/9877/2001 J40/20534/2004	PROIECTANT / DESIGNER: ing. Gh. Neata	SPECIALITATE / SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase
EXPERT CHEIE / KEY EXPERT: ing. C. Grosu	MP/PM: ing. M. Baicu	DENUMIRE PLAN / DRAWING TITLE: Profil transversal km 34+260	COD PLAN / CODIFICATION SYSTEM: SG 207 Lot 2 19 C01 03 00
DATA / DATE: 03.2018	SCARA / SCALE: 1:100	EXEMPLAR NR. / EXEMPLARY NO.: 1	

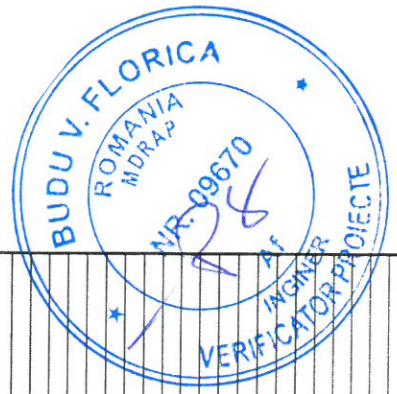
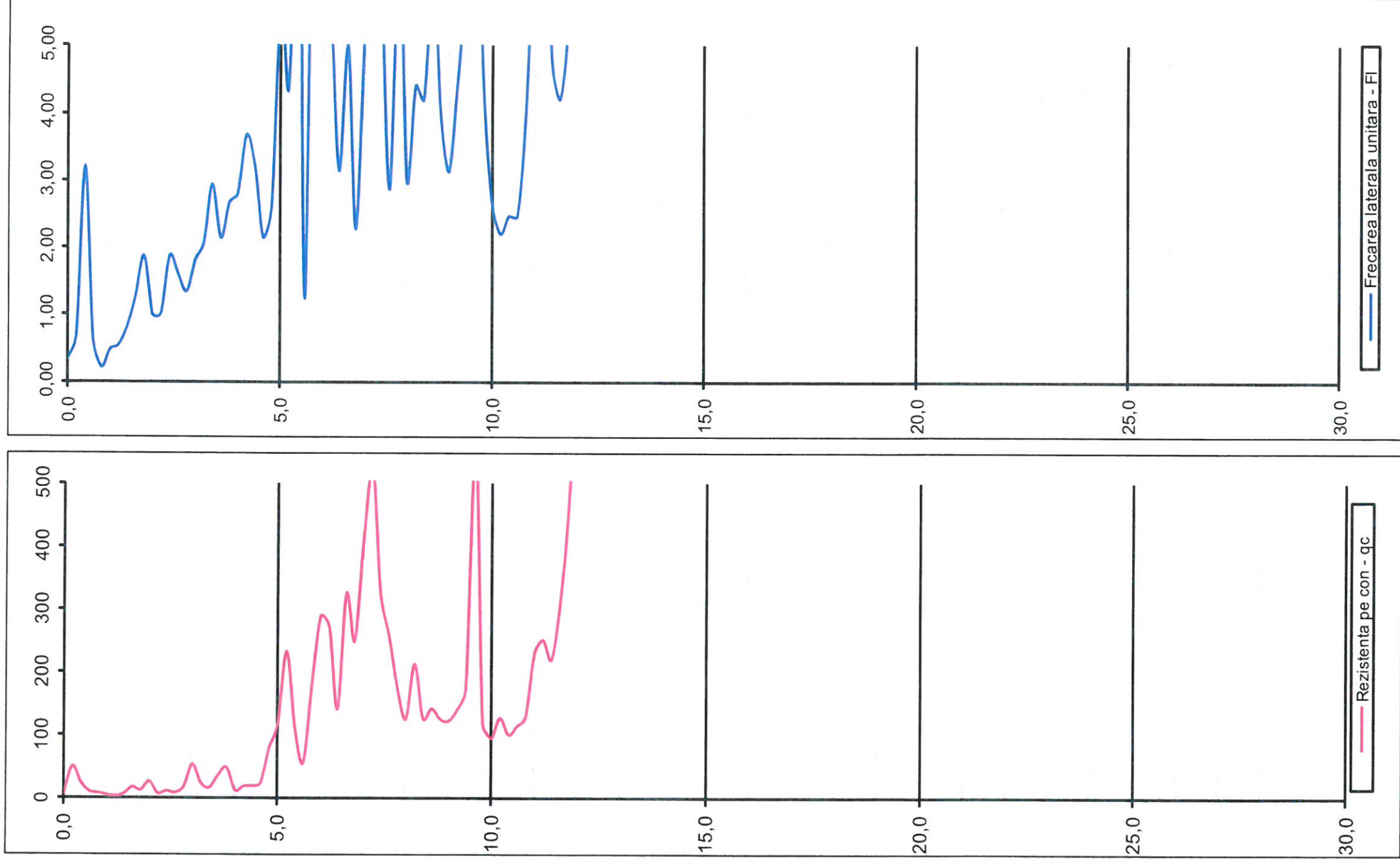
km 34+460



Teren	Distanțe	-11.25	-9.25	-8.25	-6.25	-5.90	-4.60	-3.30	-2.30	-1.30	0.00	1.30	1.60	3.60	5.10	7.10	8.10	9.20	11.20	-
	Cote	-0.98	-0.28	-0.18	-0.18	-0.23	-0.23	-0.23	-0.33	-0.18	-0.18	-0.18	-0.23	-0.03	-0.18	-0.28	-0.73	-1.33	-0.68	-0.13

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR/BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/DESIGNER: & ASOCIEREA/JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		DENUMIRE PROIECT/DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/DESIGNER: ing. Gh. Neata EXPERT CHEIE/KEY EXPERT: ing. C. Grosu MP/PM: ing. M. Baicu	SEMNATURA/SIGNATURE: SCARA/SCALE: 1:100	SPECIALITATE/SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase DENUMIRE PLAN/DRAWING TITLE: Profil transversal km 34+460	COD PLAN/CODIFICATION SYSTEM: SG 207 Lot 2 19 C01 04 00
DATA/DATE: 03.2018		EXEMPLAR NR./EXEMPLARY NO.: 1	

Adâncimea	qc-dgN/cm ²	Fr-dgN/cm ²
0,0	6	0,33
0,2	49	0,67
0,4	23	3,20
0,6	9	0,60
0,8	7	0,20
1,0	4	0,47
1,2	2	0,53
1,4	5	0,80
1,6	16	1,27
1,8	11	1,87
2,0	25	1,00
2,2	6	1,00
2,4	10	1,87
2,6	8	1,60
2,8	17	1,33
3,0	53	1,80
3,2	23	2,07
3,4	16	2,93
3,6	35	2,13
3,8	48	2,67
4,0	12	2,80
4,2	18	3,67
4,4	19	3,20
4,6	23	2,13
4,8	79	2,60
5,0	116	5,67
5,2	232	4,40
5,4	110	8,80
5,6	55	1,27
5,8	180	12,27
6,0	288	6,40
6,2	271	5,33
6,4	140	3,13
6,6	324	5,00
6,8	248	2,27
7,0	409	5,33
7,2	526	7,13
7,4	326	5,60
7,6	258	2,87
7,8	174	6,60
8,0	124	3,00
8,2	212	4,40
8,4	125	4,20
8,6	141	6,00
8,8	124	3,93
9,0	121	3,13
9,2	139	4,53
9,4	172	6,13
9,6	559	7,60
9,8	117	4,40
10,0	95	2,67
10,2	127	2,20
10,4	100	2,47
10,6	114	2,47
10,8	128	4,00
11,0	229	7,53
11,2	251	8,87
11,4	220	4,80
11,6	312	4,20
11,8	472	5,33
12,0	759	7,80
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PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

GUVERNUL ROMÂNIEI
GOVERNMENT OF ROMANIA

COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY

PROIECTANT/ DESIGNER: acciona Ingineria

ASOCIEREA/ JOINT VENTURE: B & acciona

SUBCONTRACTANT/ GEO - SERV SRL: 140/9877/2001

SUBCONTRACTANT/ J/40/12943/1994: 140/20534/2004

DENUMIRE PROIECT/ DENUMIRE LUCRARE: Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATE DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA

PROJECT TITLE/ WORKS TITLE: JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER

PROIECTANT/ DESIGNER: ing. Gh. Neata

EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu

IMP/PM: ing. M. Baicu

DATA/DATE: 03.2018

SPECIALITATE/ SPECIALITY: STUDIUL GEOTEHNIC

PUNCTE PERICULOASE: Puncte periculoase

SCARA/SCALE: 1:100

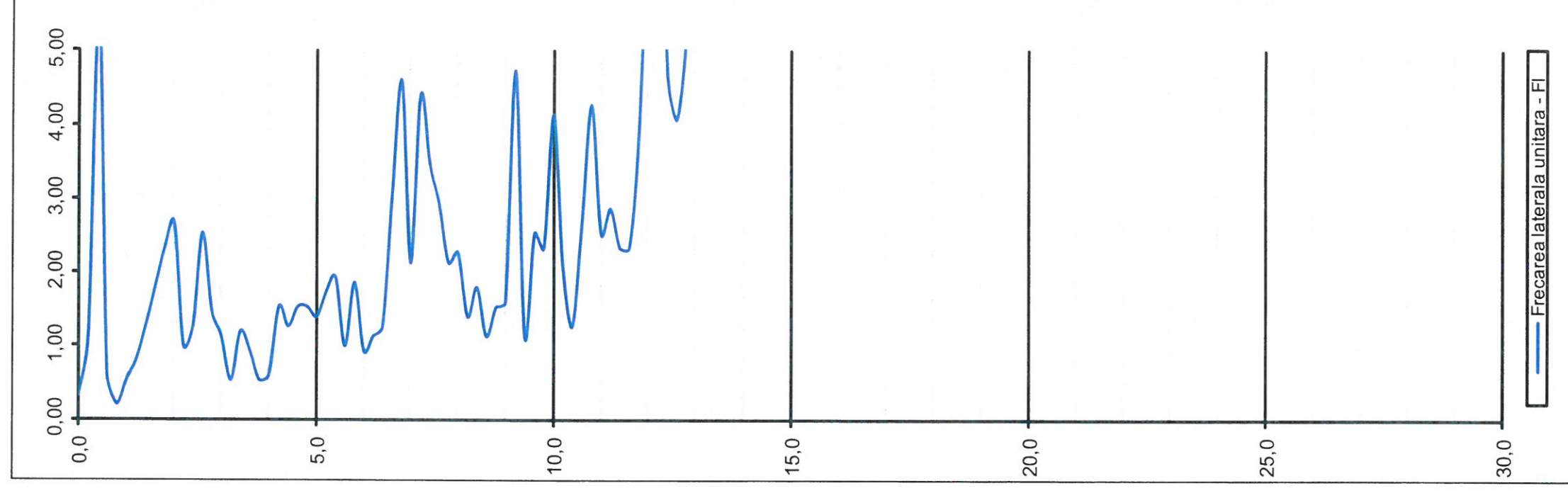
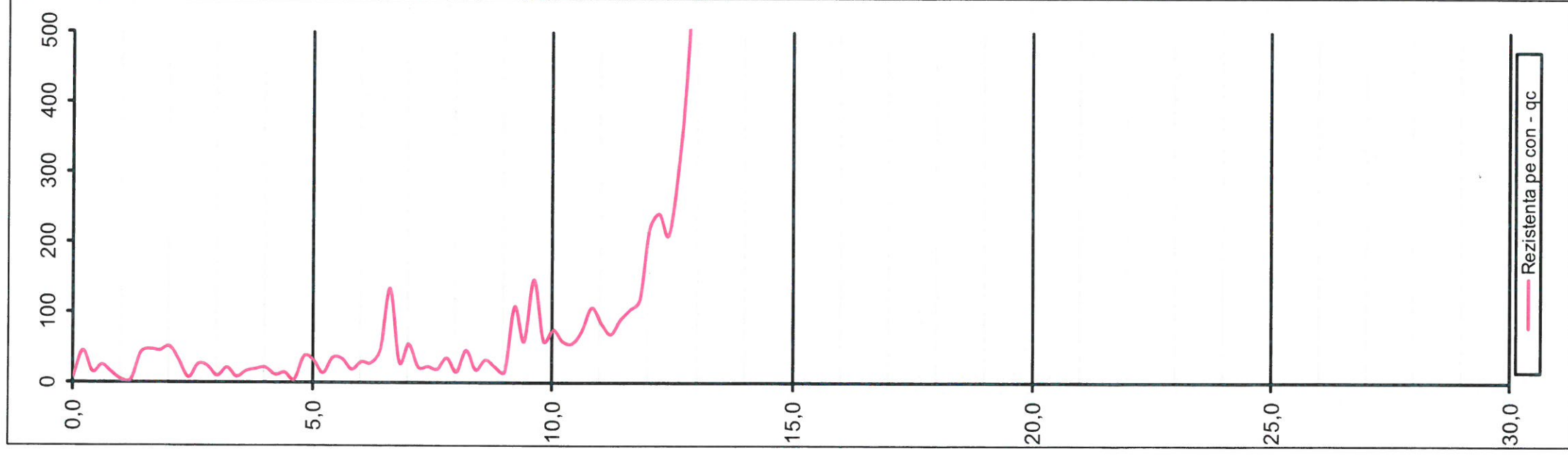
COD PLAN/ CODIFICATION SYSTEM: CPT 2 - km 34+076

COORDONATE: N44.139723", E26.129874"

UNIFORMITATE/ UNIFORMITY: 1

EXEMPLAR NR./ EXEMPLARY NO.: SG 207 Lot 2 19 C01 05 00

Adâncimea	qc-dan/cm ²	F _{1-dan} /cm ²
0,0	6	0,33
0,2	44	1,13
0,4	14	5,60
0,6	24	0,60
0,8	13	0,20
1,0	3	0,53
1,2	3	0,80
1,4	41	1,27
1,6	46	1,80
1,8	44	2,33
2,0	50	2,67
2,2	30	1,00
2,4	6	1,27
2,6	26	2,53
2,8	23	1,47
3,0	9	1,13
3,2	21	0,53
3,4	8	1,20
3,6	16	0,83
3,8	19	0,53
4,0	21	0,60
4,2	11	1,53
4,4	14	1,27
4,6	4	1,53
4,8	37	1,53
5,0	31	1,40
5,2	13	1,73
5,4	35	1,93
5,6	33	1,00
5,8	18	1,87
6,0	29	0,93
6,2	27	1,13
6,4	46	1,27
6,6	133	3,07
6,8	28	4,60
7,0	54	2,13
7,2	21	4,40
7,4	22	3,47
7,6	18	2,93
7,8	34	2,13
8,0	14	2,27
8,2	45	1,40
8,4	17	1,80
8,6	31	1,13
8,8	21	1,53
9,0	14	1,60
9,2	107	4,73
9,4	57	1,13
9,6	146	2,53
9,8	59	2,33
10,0	75	4,13
10,2	58	2,07
10,4	55	1,27
10,6	73	2,67
10,8	106	4,27
11,0	84	2,53
11,2	68	2,87
11,4	89	2,33
11,6	103	2,33
11,8	117	3,87
12,0	218	7,40
12,2	240	8,73
12,4	209	4,67
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PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT

GUVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA



BENEFICIAR
BENEFICIARY:
CFR

COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY

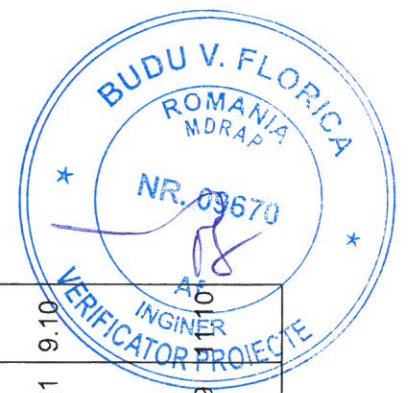
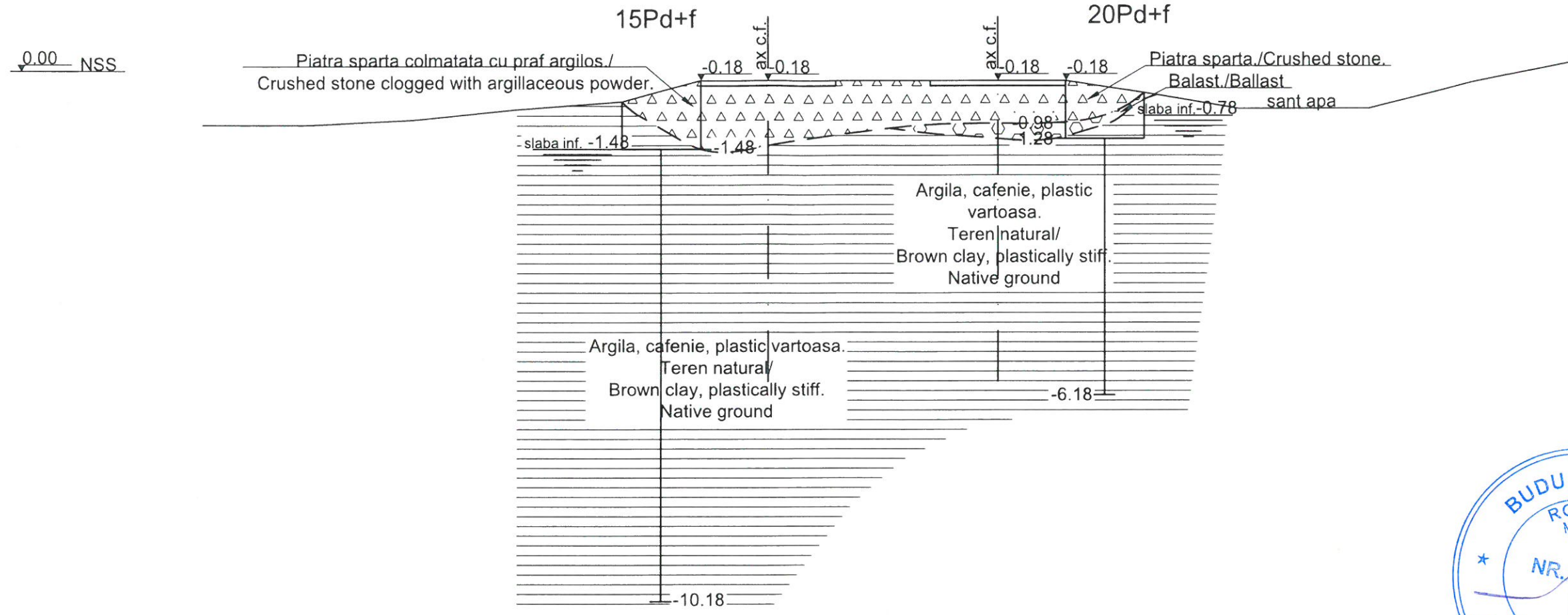
PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL

DENUMIRE
PROIECT/
DENUMIRE
LUCRARE:
PROJECT TITLE/
WORKS TITLE:

NUME/NOME
ing. Gh. Neata
ing. C. Grosu
ing. M. Balcu
DATA/DATE:
03.2018

SPECIALITATE/
SPECIALITY
STUDIU GEOTEHNIC
Puncte periculoase
DENUMIRE PLAN/
DRAWING TITLE
CPT 3 - km 34+460
coordonate N44.138131", E26.125544"
EXEMPLAR NR./
EXEMPLARY NO.
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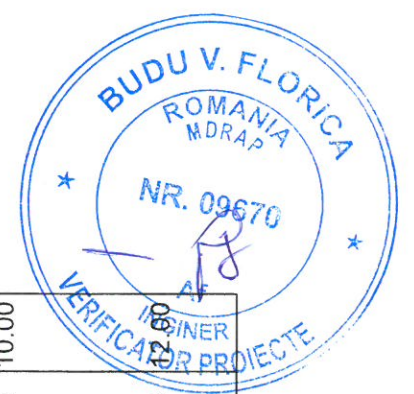
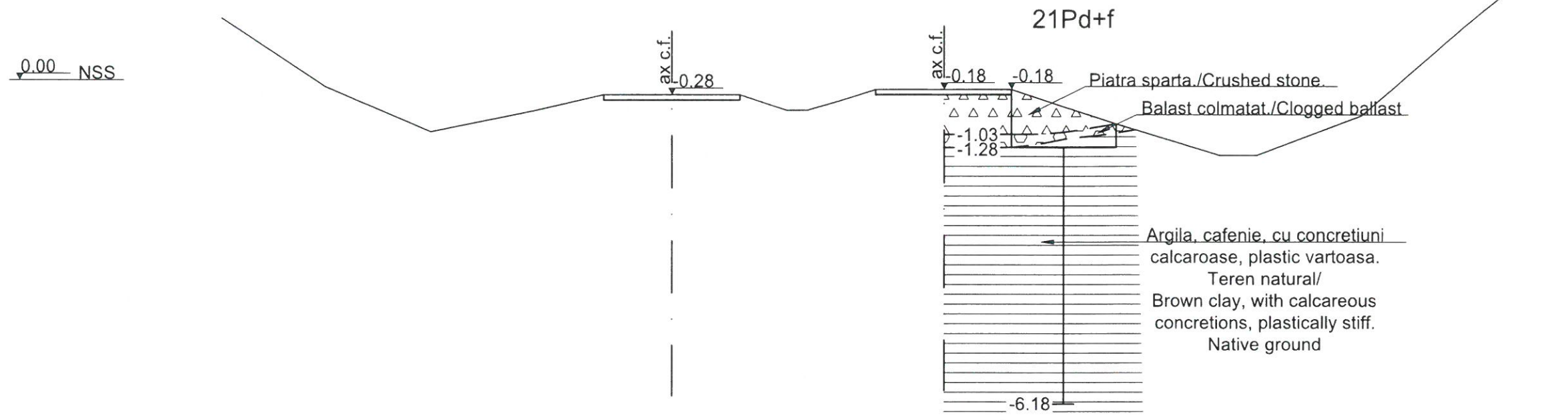
km 34+660



Teren	Distante	-15.20	-13.20	-11.20	-9.20	-7.20	-5.70	-4.40	-3.10	-1.30	0.00	1.30	2.80	4.60	7.10	9.10	10.10
	Cote	-1.03	-1.03	-0.93	-0.73	-0.58	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.41	-0.71	-0.71	-0.21	0.19

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: &		DENUMIRE PROIECT/ DENUMIRE LUCRARE:	
ASOCIEREA/ JOINT VENTURE: J40/9877/2001 & J40/20534/2004		"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J40/12943/1994		PROJECT TITLE/ WORKS TITLE:	
PROIECTANT/ DESIGNER:	NUME/NAME ing. Gh. Neata	SEMNATURA/ SIGNATURE 	SPECIALITATE/ SPECIALITY STUDIU GEOTEHNIC Puncte periculoase
EXPERT CHEIE/ KEY EXPERT:	ing. C. Grosu		Profil transversal km 34+660
MP/PM:	ing. M. Baicu		
DATA/DATE:	03.2018	SCARA/SCALE:	EXEMPLAR NR./ EXEMPLARY NO.:
		1:100	COD PLAN/ CODIFICATION SYSTEM:
			1
			SG 207 Lot 2 21 C01 01 00

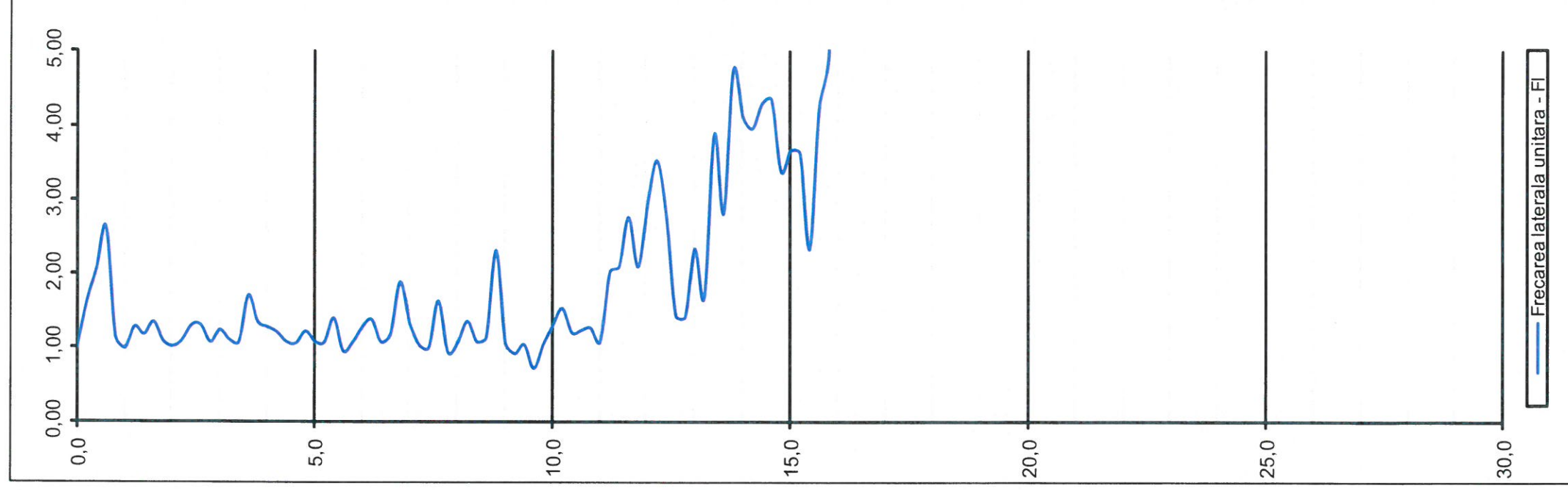
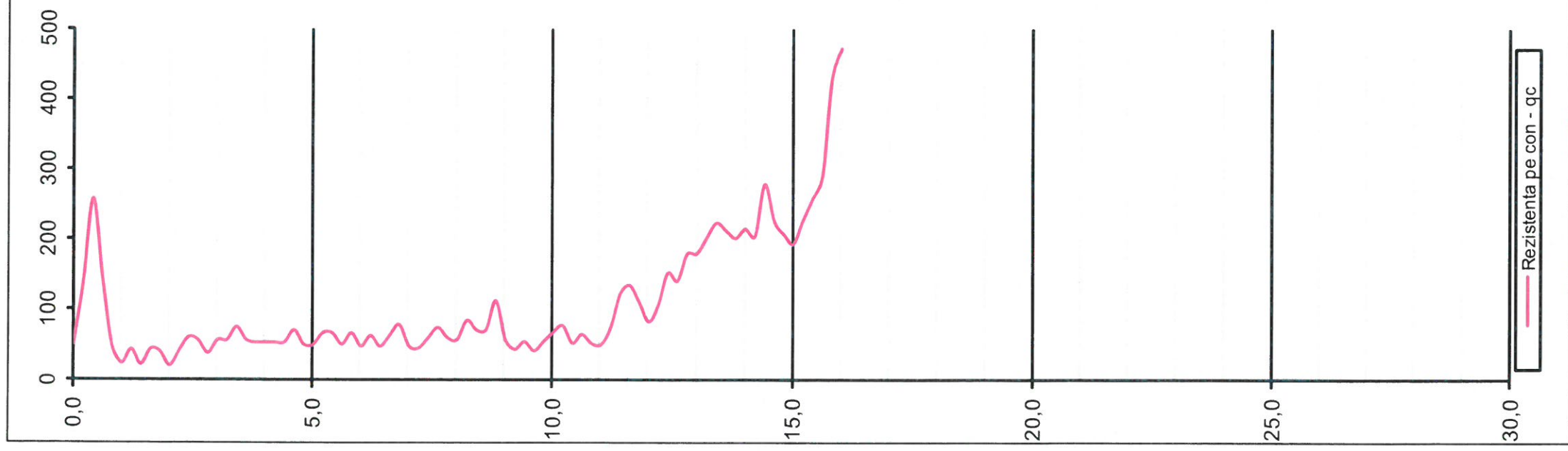
km 34+860



Teren	Distante	-13.80	-11.80	-9.80	-7.80	-6.50	-5.20	-3.90	-3.00	-2.60	-1.30	0.00	1.30	3.30	5.30	6.00	8.00	10.00	
	Cote	1.17	-0.13	-0.98	-0.58	-0.28	-0.28	-0.28	-0.28	-0.58	-0.58	-0.18	-0.18	-0.18	-0.83	-1.43	-1.43	-0.68	1.02

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: & ASOCIEREA/ JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		DENUMIRE PROIECT/ DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: ing. Gh. Neata EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu MP/PM: ing. M. Baicu		DENUMIRE PLAN/ DRAWING TITLE: STUDIU GEOTEHNIC Puncte periculoase Profil transversal km 34+860	
DATA/DATE: 03.2018		SCARA/SCALE: 1:100	
EXEMPLAR NR./ EXEMPLARY NO.: 1		COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 21 C01 02 00	

Adâncimea	qc-dal/cm ²	Fl-dal/cm ²
0,0	51	1,00
0,2	141	1,62
0,4	257	2,06
0,6	141	2,62
0,8	48	1,13
1,0	25	0,98
1,2	44	1,28
1,4	23	1,17
1,6	44	1,34
1,8	41	1,08
2,0	21	1,01
2,2	41	1,08
2,4	61	1,29
2,6	57	1,30
2,8	39	1,07
3,0	57	1,23
3,2	57	1,10
3,4	76	1,07
3,6	57	1,70
3,8	54	1,34
4,0	54	1,27
4,2	54	1,20
4,4	54	1,07
4,6	71	1,05
4,8	51	1,21
5,0	51	1,08
5,2	67	1,06
5,4	67	1,39
5,6	51	0,94
5,8	67	1,06
6,0	48	1,26
6,2	63	1,37
6,4	48	1,06
6,6	64	1,17
6,8	79	1,88
7,0	48	1,33
7,2	46	1,03
7,4	60	0,99
7,6	75	1,62
7,8	60	0,92
8,0	57	1,06
8,2	85	1,35
8,4	71	1,07
8,6	71	1,13
8,8	113	2,31
9,0	58	1,06
9,2	44	0,91
9,4	55	1,03
9,6	42	0,71
9,8	55	1,03
10,0	68	1,29
10,2	78	1,53
10,4	53	1,20
10,6	65	1,23
10,8	53	1,26
11,0	51	1,08
11,2	71	2,01
11,4	122	2,09
11,6	134	2,76
11,8	110	2,09
12,0	83	2,92
12,2	106	3,53
12,4	152	2,80
12,6	140	1,43
12,8	179	1,41
13,0	179	2,33
13,2	201	1,68
13,4	223	3,88
13,6	212	2,81
13,8	201	4,74
14,0	214	4,12
14,2	204	3,95
14,4	278	4,29
14,6	225	4,35
14,8	207	3,38
15,0	193	3,66
15,2	227	3,62
15,4	257	2,32
15,6	288	4,22
15,8	430	4,94
16,0	471	7,69
16,2		
16,4		
16,6		
16,8		
17,0		
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29,8		
30,0		



PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT



BENEFICIAR
BENEFICIARY:
COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY



PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994



GUVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA

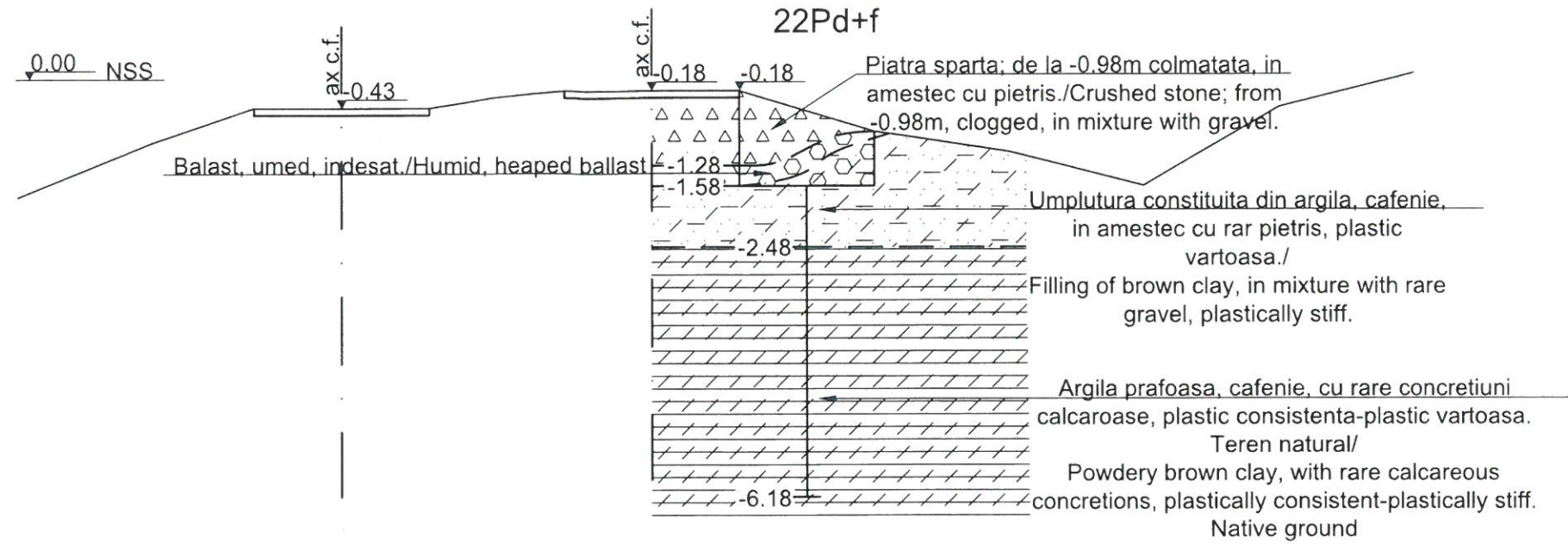


Instrumente Structurale
2014-2020

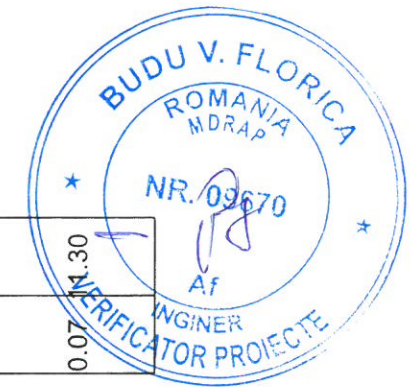
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	NUME/NOME ing. Gh. Neata ing. C. Grosu ing. M. Balcu	SEMNAȚURA/ SIGNATURE
DATA/DATE: 03.2018	SCARA/SCALE: -	

DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERA" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS
SPECIALITATE/ SPECIALITY	STUDIU GEOTEHNIC Puncte periculoase
DENUMIRE PLAN/ DRAWING TITLE EXEMPLAR NR. / EXEMPLARY NO.:	CPT 4 - km 34+860 coordonate N44.136248", E26.121196" COD PLAN/ CODIFICATION SYSTEM: 1

km 51+600

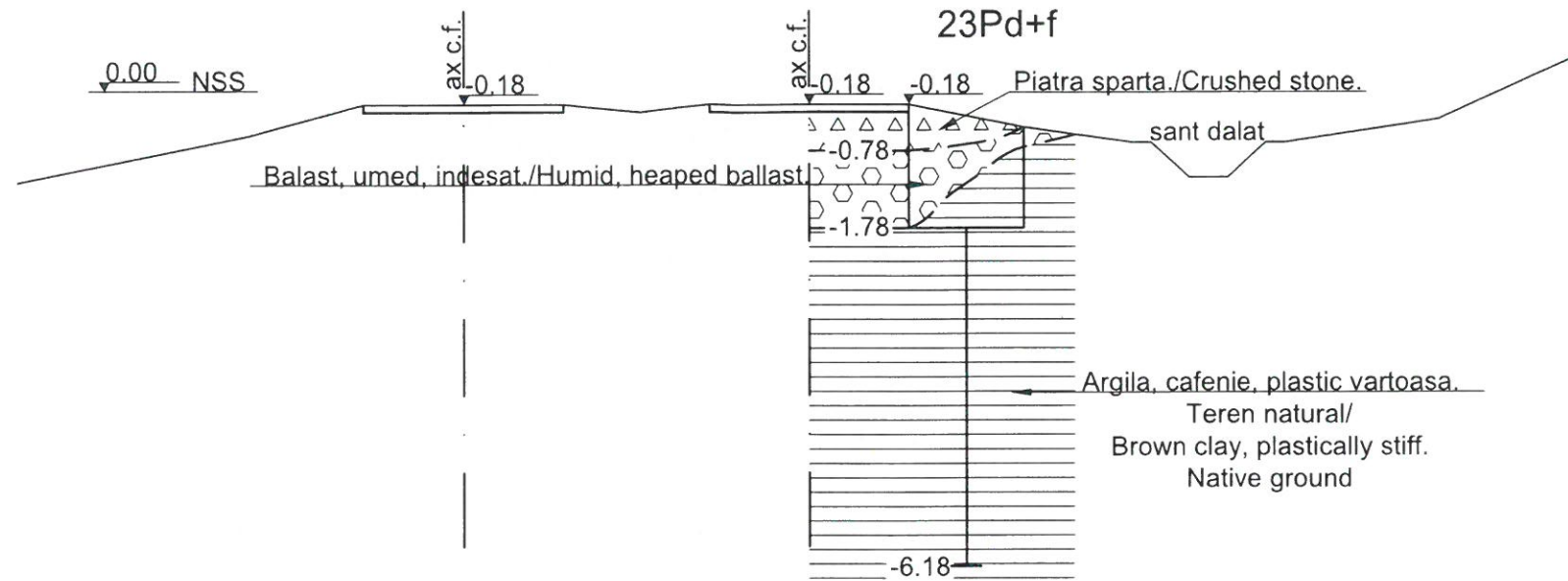


Teren	Distante	9.40	7.40	5.90	4.60	3.30	2.40	1.30	0.00	1.30	3.30	5.30	7.30	9.30	11.30
	Cote	-1.73	-0.93	-0.43	-0.43	-0.43	-0.28	-0.18	-0.18	-0.18	-0.18	-0.78	-1.08	-1.58	-0.43

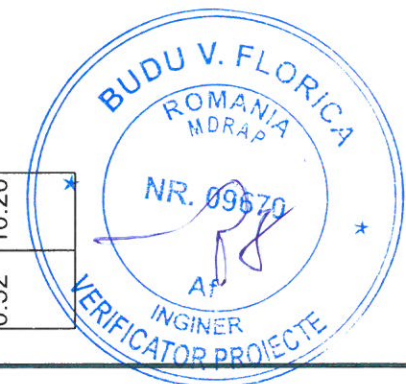


	PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY		
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	& J40/9877/2001 J40/20534/2004	DENUMIRE PROIECT/ DENUMIRE LUCRARE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: ing. Gh. Neata	SEMNTURA/ SIGNATURE	SPECIALITATE/ SPECIALITY	STUDIU GEOTEHNIC Puncte periculoase	
EXPERT CHEIE/ KEY EXPERT ing. C. Grosu				
MP/PM ing. M. Baicu		DENUMIRE PLAN/ DRAWING TITLE	Profil transversal km 51+600	
DATA/DATE: 03.2018	SCARA/SCALE: 1:100	EXEMPLAR NR./ EXEMPLARY NO. 1		
COD PLAN/ CODIFICATION SYSTEM:			SG 207 Lot 2 27 C01 01 00	

km 51+800

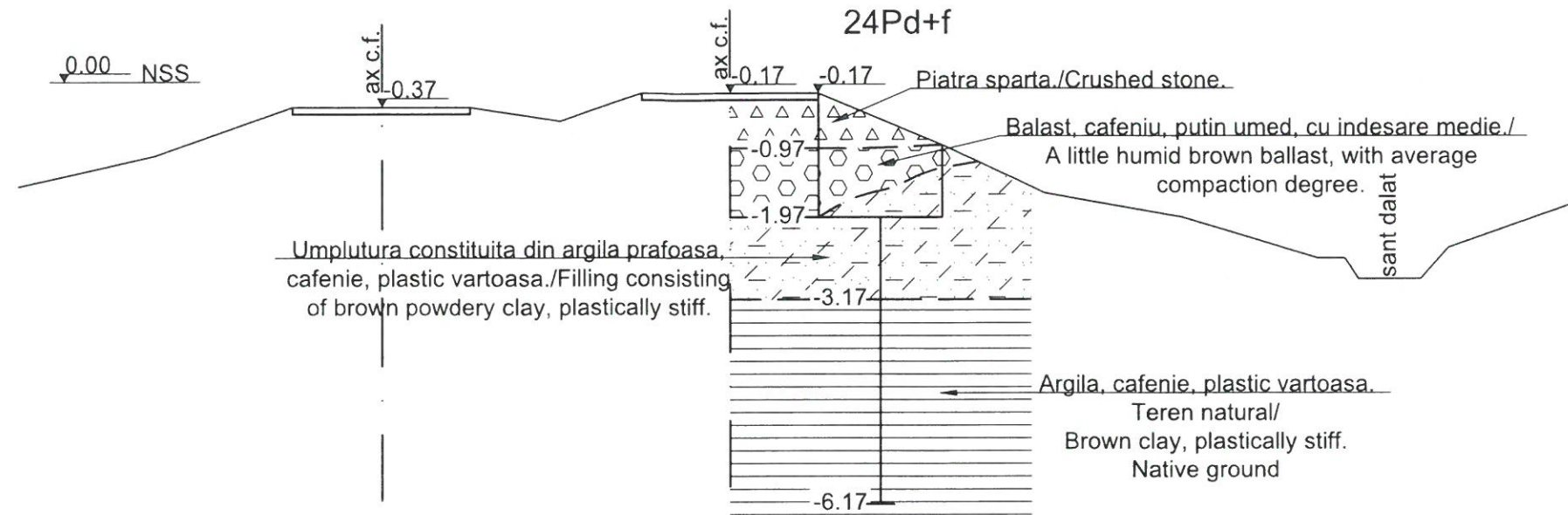


Teren	Distante	-10.30	-8.30	-7.30	-5.80	-4.50	-3.20	-2.20	-1.30	0.00	1.30	2.80	4.20	4.45	4.95	5.45	5.95	6.20	8.20	10.20
	Cote	-1.18	-0.78	-0.58	-0.18	-0.18	-0.18	-0.28	-0.18	-0.18	-0.18	-0.48	-0.68	-1.13	-1.13	-0.68	-0.38	0.52		

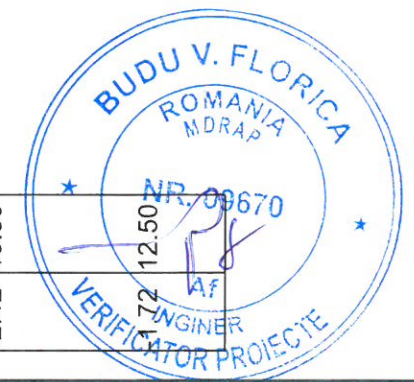


	PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CÂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY		
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	 	DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: EXPERT CHEIE/ KEY EXPERT MP/PM	NUME/NAME SEMNTURA/ SIGNATURE ing. Gh. Neata ing. C. Grosu ing. M. Baicu	SPECIALITATE/ SPECIALITY	STUDIU GEOTEHNIC Puncte periculoase	
DATA/DATE: 03.2018	SCARA/SCALE: 1:100	EXEMPLAR NR./ EXEMPLARY NO. 1	COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 27 C01 02 00	
		Profil transversal km 51+800		

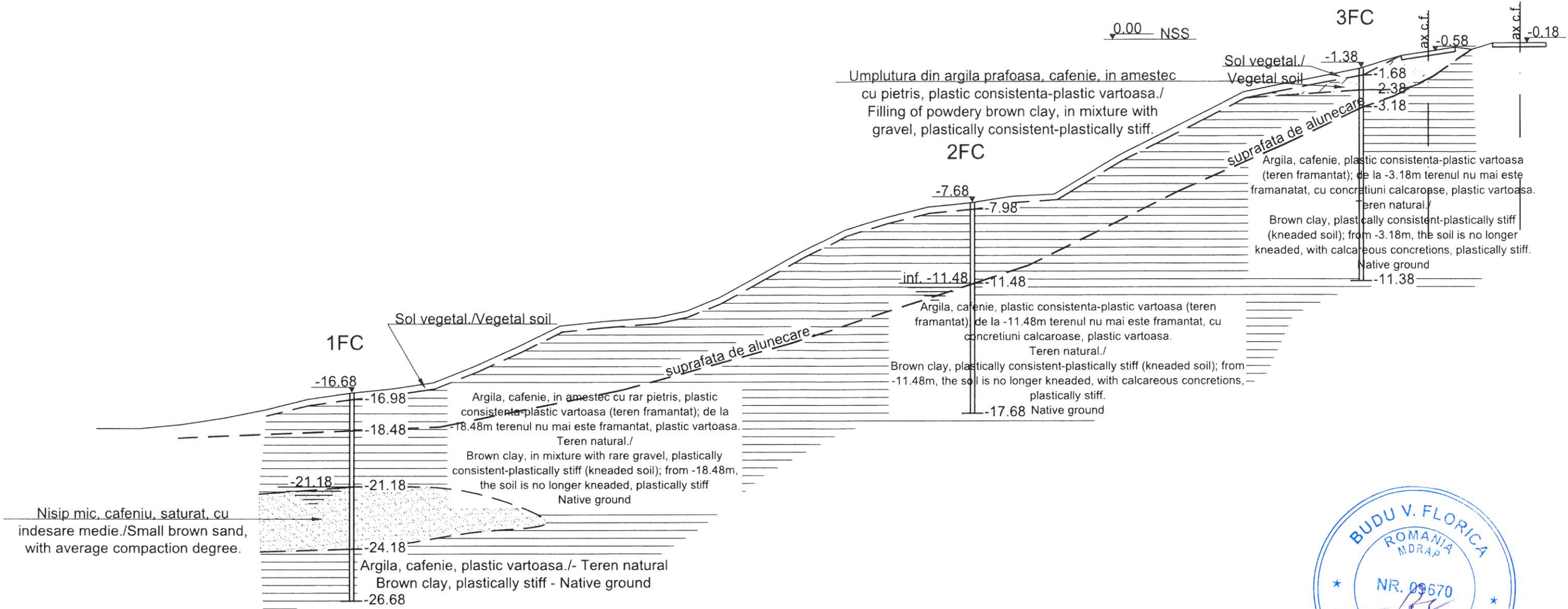
km 52+000



Teren	Distante	-10.40	-8.40	-6.40	-5.10	-3.80	-2.50	-1.30	0.00	1.30	3.10	4.60	6.60	8.60	9.20	10.10	10.50
	Cote	-1.52	-1.07	-0.37	-0.37	-0.37	-0.57	-0.17	-0.17	-0.17	-0.17	-0.92	-1.62	-1.97	-2.57	-2.87	-2.87



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: &		DENUMIRE PROIECT/ DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
ASOCIEREA/ JOINT VENTURE: J40/9877/2001 & J40/20534/2004		PROJECT TITLE/ WORKS TITLE:	
SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		SPECIALITATE/ SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase	
PROIECTANT/ DESIGNER: ing. Gh. Neata		SEMNATURA/ SIGNATURE:	
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu		DENUMIRE PLAN/ DRAWING TITLE: Profil transversal km 52+000	
MP/PM: ing. M. Baicu		COD PLAN/ CODIFICATION SYSTEM:	
DATA/DATE: 03.2018		SCARA/SCALE: 1:100	
EXEMPLAR NR/ EXEMPLARY NO: 1		SG 207 Lot 2 27 C01 03 00	

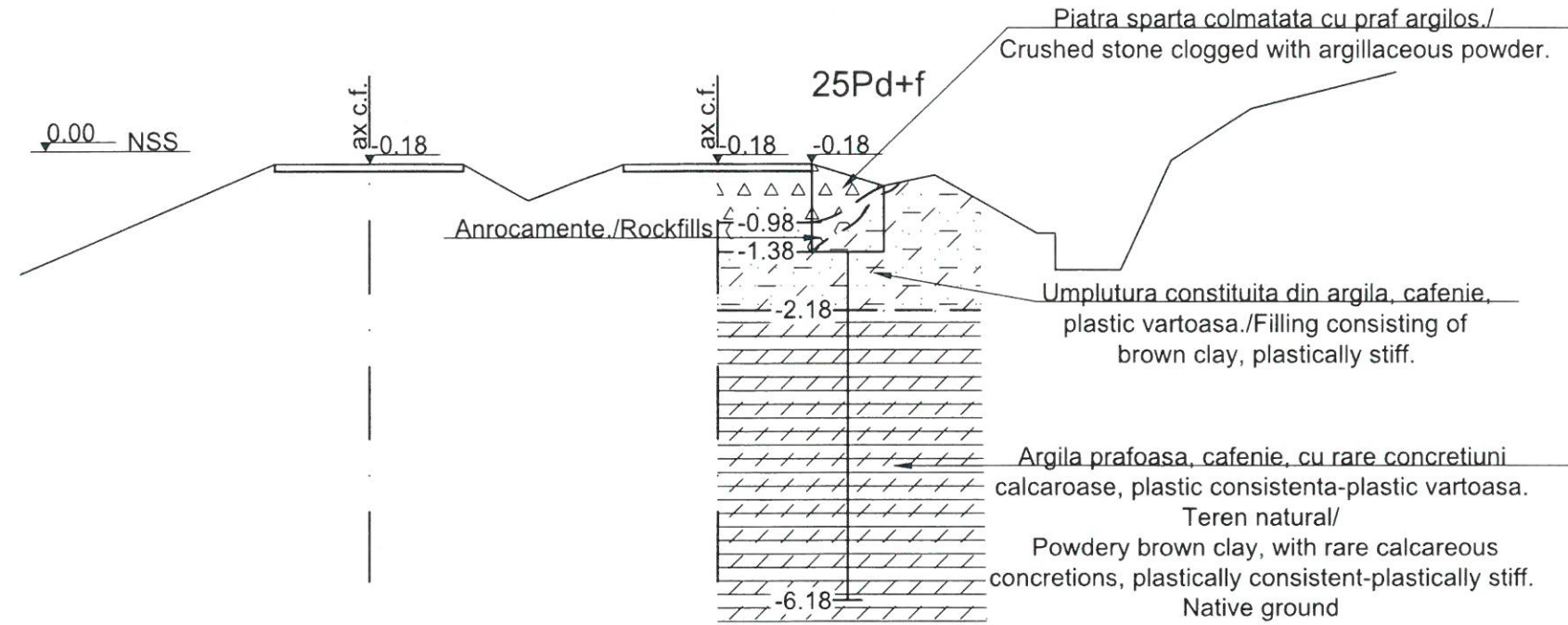


Nisip mic, cafeniu, saturat, cu indesare medie./Small brown sand, with average compaction degree.

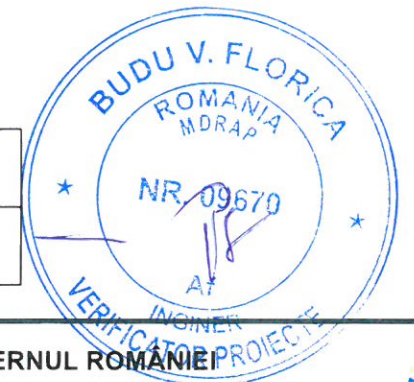
Distante Teren	Cote
-18.38-67.70	-18.38
-18.38-65.70	-18.38
-18.18-63.70	-18.18
-17.88-61.70	-17.88
-17.48-59.70	-17.48
-16.98-57.70	-16.98
-16.68-55.70	-16.68
-16.48-53.70	-16.48
-16.18-51.70	-16.18
-15.38-49.70	-15.38
-14.48-47.70	-14.48
-13.48-45.70	-13.48
-13.28-43.70	-13.28
-13.08-41.10	-13.08
-12.78-39.70	-12.78
-12.18-38.20	-12.18
-11.08-36.20	-11.08
-9.98-34.20	-9.98
-8.98-32.20	-8.98
-8.38-30.20	-8.38
-7.88-28.20	-7.88
-7.68-26.20	-7.68
-7.38-24.20	-7.38
-7.28-22.20	-7.28
-6.68-21.20	-6.68
-5.48-19.20	-5.48
-4.48-17.20	-4.48
-3.48-15.20	-3.48
-2.48-13.20	-2.48
-2.18-11.70	-2.18
-1.78-9.70	-1.78
-1.38-7.70	-1.38
-0.78-5.70	-0.78
-0.58-4.40	-0.58
-0.38-3.10	-0.38
-0.48-2.30	-0.48
-0.18-1.30	-0.18
-0.18 0.00	-0.18
-0.18 1.30	-0.18

<p>PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT</p>		<p>GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA</p>	
<p>BENEFICIAR BENEFICIARY:</p>		<p>COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY</p>	
<p>PROIECTANT/ DESIGNER:</p> &		<p>DENUMIRE PROIECT/ DENUMIRE LUCRARE:</p> <p>"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA</p>	
<p>ASOCIEREA/ JOINT VENTURE:</p> <p>J40/9877/2001 J40/20534/2004</p>		<p>PROJECT TITLE/ WORKS TITLE:</p> <p>"MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS</p>	
<p>SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J40/12943/1994</p>		<p>STUDIUL GEOTEHNIC Puncte periculoase</p>	
<p>PROIECTANT/ DESIGNER</p> <p>ing. Gh. Neata</p>		<p>SPECIALITATE/ SPECIALITY</p>	
<p>EXPERT CHEIE/ KEY EXPERT</p> <p>ing. C. Grosu</p>		<p>DENUMIRE PLAN/ DRAWING TITLE</p> <p>Profil transversal km 52+100</p>	
<p>MP/PM</p> <p>ing. M. Baicu</p>		<p>COD PLAN/ CODIFICATION SYSTEM:</p> <p>SG 207 Lot 2 27 C01 04 00</p>	
<p>DATA/DATE:</p> <p>03.2018</p>		<p>SCARA/SCALE:</p> <p>1:200</p>	
<p>EXEMPLAR NR./ EXEMPLARY NO.</p> <p>1</p>		<p>EXEMPLAR NR./ EXEMPLARY NO.</p> <p>1</p>	

km 52+200



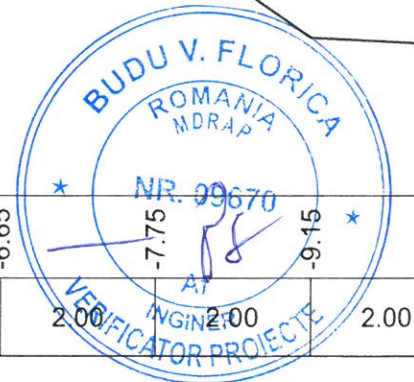
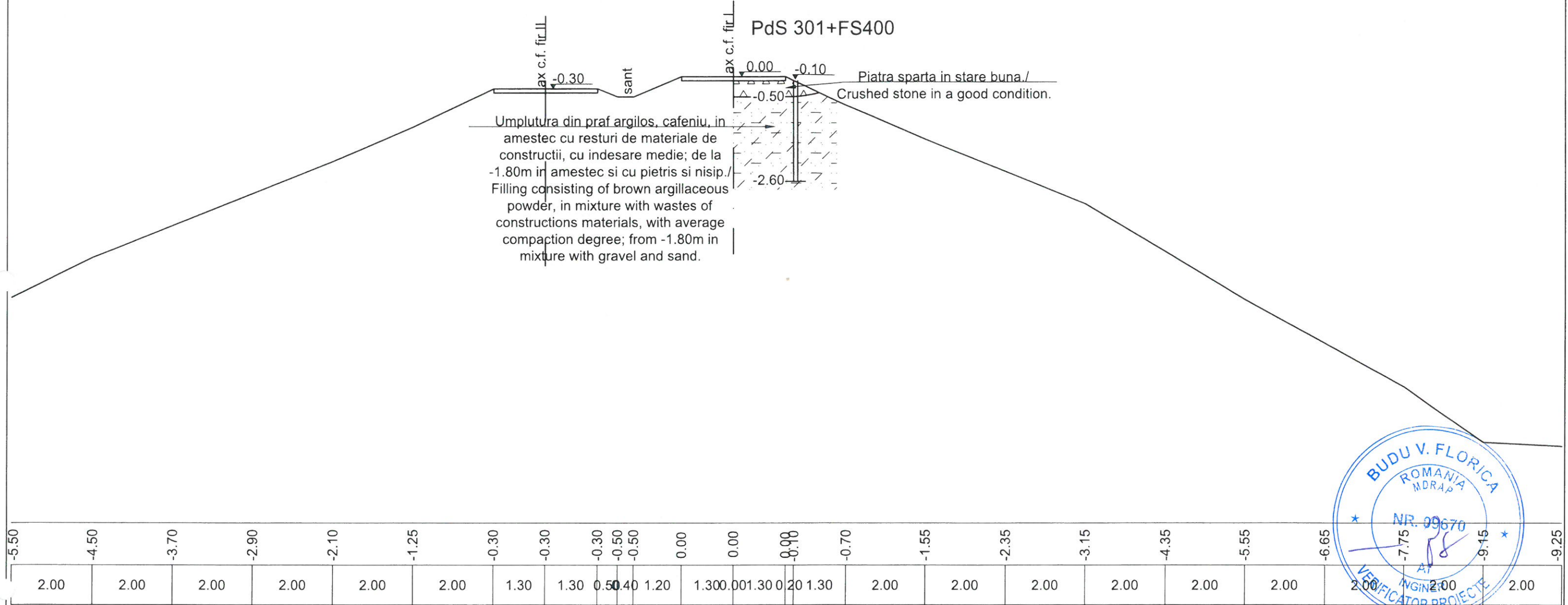
Teren	Distante	-1.68	-0.83	-0.18	-0.18	-0.18	-0.68	-0.18	-0.18	-0.18	-0.48	-0.33	-1.13	-1.63	-0.13	0.57	1.07
	Cote	-9.60	-7.60	-6.10	-4.80	-3.50	-2.60	-1.30	0.00	1.30	2.30	3.00	4.40	5.55	6.25	7.35	9.35



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR:		DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:	
BAICONS & acciona J40/9877/2001 J40/20534/2004 J40/12943/1994		"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: ing. Gh. Neata		SPECIALITATE/ SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase	
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu		DENUMIRE PLAN/ DRAWING TITLE: Profil transversal km 52+200	
MP/PM: ing. M. Baicu		COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 27 C01 05 00	
DATA/DATE: 03.2018		SCARA/SCALE: 1:100	
EXEMPLAR NR./ EXEMPLARY NO.: 1		EXEMPLAR NR./ EXEMPLARY NO.: 1	

km 53+300

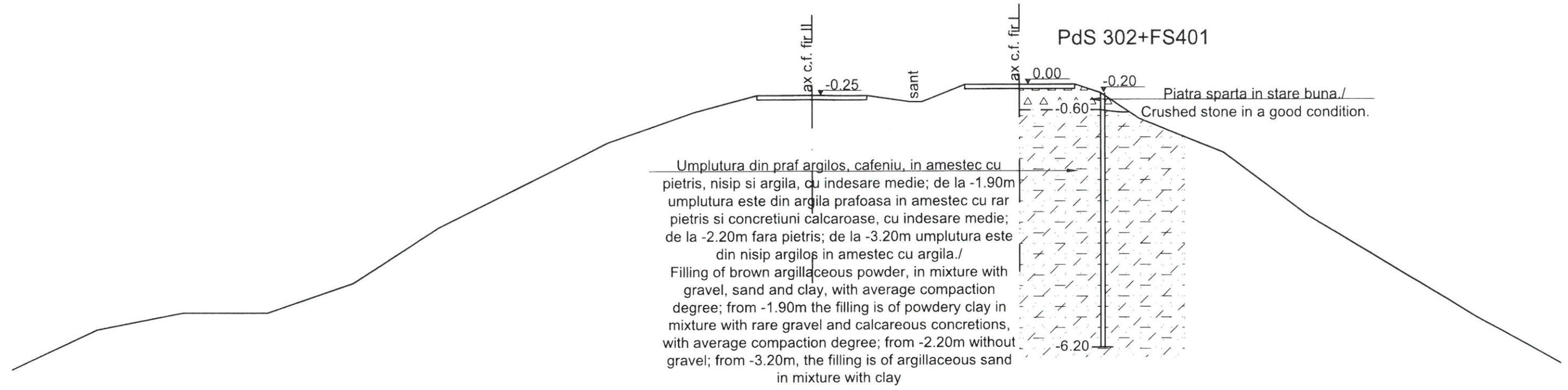
PdS 301+FS400



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER:		DENUMIRE PROIECT/ DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
ASOCIEREA/ JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		PROJECT TITLE/ WORKS TITLE:	
PROIECTANT/ DESIGNER: ing. Gh. Neata		SPECIALITATE/ SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase	
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu		DENUMIRE PLAN/ DRAWING TITLE: Profil transversal km 52+300	
MP/PM: ing. M. Baicu		COD PLAN/ CODIFICATION SYSTEM:	
DATA/DATE: 03.2018		SCARA/SCALE: 1:200	
EXEMPLAR NR./ EXEMPLARY NO.: 1		SG 207 Lot 2 27 C02 01 00	

km 53+500

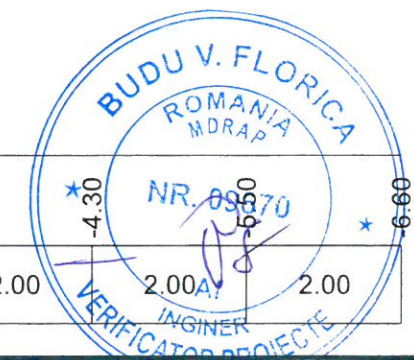
PdS 302+FS401



Umplutura din praf argilos, cafeniu, in amestec cu pietris, nisip si argila, cu indesare medie; de la -1.90m umplutura este din argila prafoasa in amestec cu rar pietris si concretiuni calcaroase, cu indesare medie; de la -2.20m fara pietris; de la -3.20m umplutura este din nisip argilos in amestec cu argila.
 Filling of brown argillaceous powder, in mixture with gravel, sand and clay, with average compaction degree; from -1.90m the filling is of powdery clay in mixture with rare gravel and calcareous concretions, with average compaction degree; from -2.20m without gravel; from -3.20m, the filling is of argillaceous sand in mixture with clay

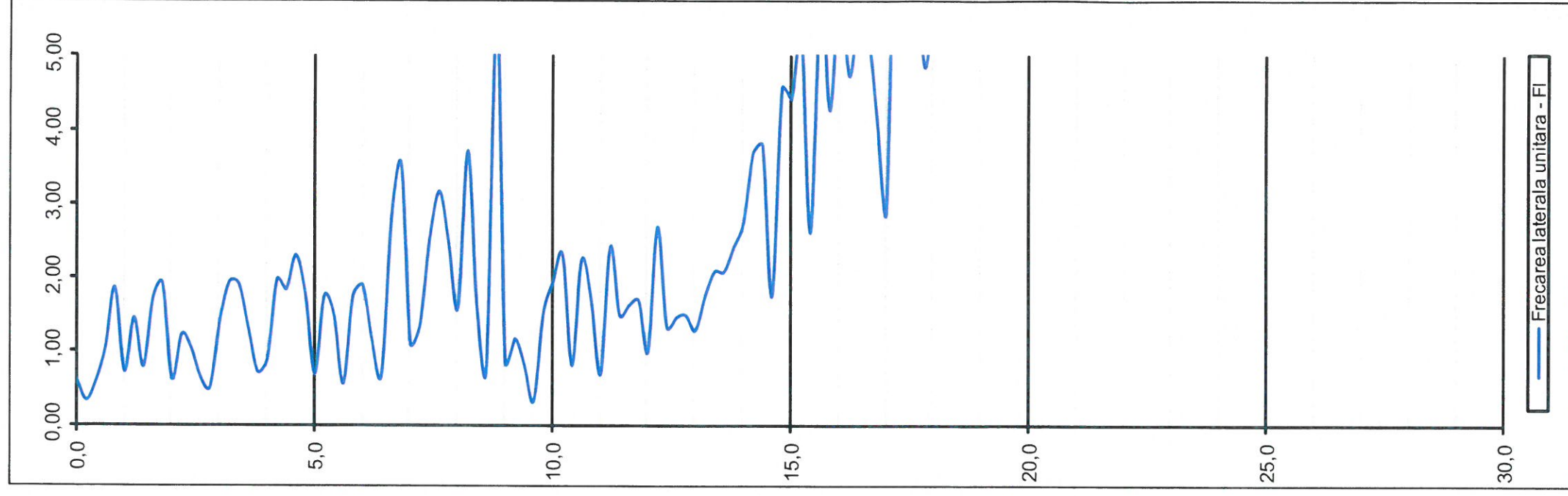
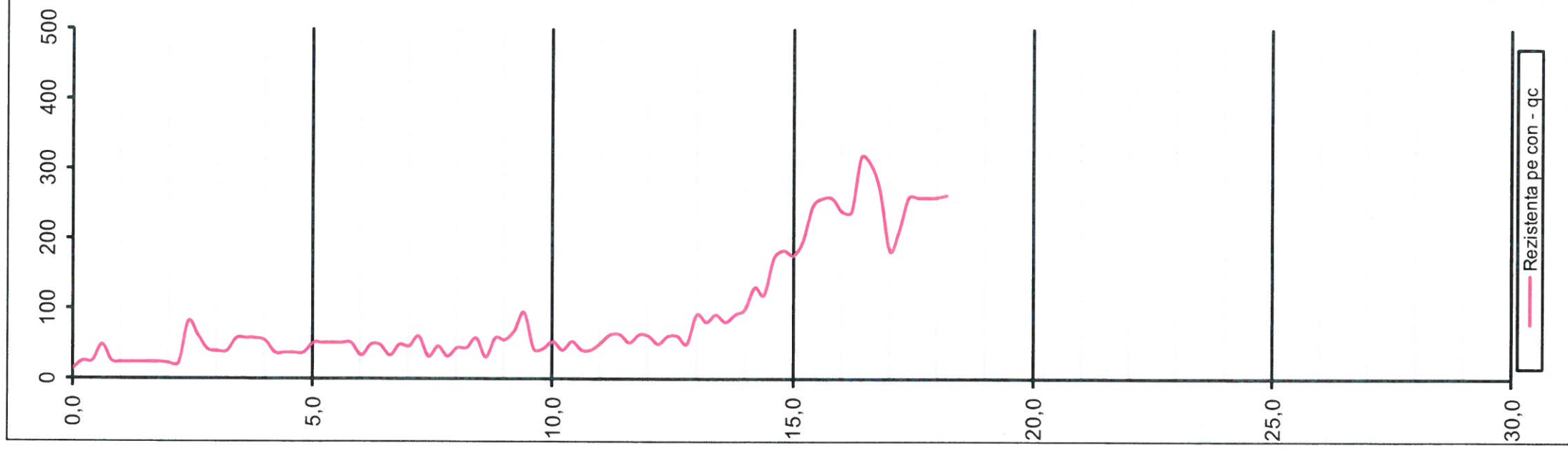
Piatra sparta in stare buna./
 Crushed stone in a good condition.

-6.70	-5.75	-5.35	-5.35	-4.65	-3.35	-2.35	-1.35	-0.65	-0.25	-0.25	-0.25	-0.40	-0.40	0.00	0.00	0.00	-0.20	-0.80	-1.60	-3.10	6.60
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.50	1.30	1.30	1.00	1.00	1.00	1.30	1.30	0.60	0.90	2.00	2.00	2.00	2.00



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR/BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/DESIGNER: & ASOCIEREA/Joint Venture: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		DENUMIRE PROIECT/DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/DESIGNER: ing. Gh. Neata EXPERT CHEIE/KEY EXPERT: ing. C. Grosu MP/PM: ing. M. Baicu		DENUMIRE PLAN/DRAWING TITLE: STUDIU GEOTEHNIC Puncte periculoase Profil geolitic transversal km 53+500	
DATA/DATE: 03.2018		SCARA/SCALE: 1:200	
EXEMPLAR NR./EXEMPLARY NO.: 1		COD PLAN/CODIFICATION SYSTEM: SG 207 Lot 2 27 C02 03 00	

Adâncimea	qc-daN/cm ²	Fl-dgN/cm ²
0,0	13	0,60
0,2	24	0,31
0,4	24	0,58
0,6	48	1,03
0,8	25	1,85
1,0	23	0,70
1,2	23	1,44
1,4	23	0,77
1,6	23	1,70
1,8	23	1,90
2,0	21	0,61
2,2	21	1,21
2,4	81	1,04
2,6	61	0,63
2,8	41	0,48
3,0	39	1,40
3,2	39	1,93
3,4	57	1,90
3,6	57	1,30
3,8	57	0,70
4,0	54	0,87
4,2	36	1,96
4,4	36	1,82
4,6	36	2,29
4,8	36	1,76
5,0	51	0,68
5,2	51	1,74
5,4	51	1,48
5,6	51	0,54
5,8	51	1,74
6,0	33	1,89
6,2	48	1,13
6,4	48	0,66
6,6	33	2,82
6,8	48	3,53
7,0	46	1,09
7,2	60	1,32
7,4	31	2,53
7,6	46	3,16
7,8	31	2,46
8,0	44	1,58
8,2	44	3,71
8,4	57	1,59
8,6	30	0,73
8,8	58	5,59
9,0	55	0,83
9,2	68	1,16
9,4	94	0,81
9,6	42	0,31
9,8	42	1,51
10,0	53	1,93
10,2	40	2,30
10,4	53	0,80
10,6	40	2,23
10,8	40	1,70
11,0	51	0,68
11,2	62	2,41
11,4	62	1,48
11,6	51	1,61
11,8	63	1,68
12,0	60	0,98
12,2	49	2,68
12,4	60	1,31
12,6	60	1,45
12,8	49	1,48
13,0	91	1,27
13,2	80	1,74
13,4	91	2,07
13,6	80	2,07
13,8	91	2,40
14,0	98	2,73
14,2	130	3,68
14,4	119	3,79
14,6	172	1,73
14,8	183	4,56
15,0	176	4,41
15,2	196	5,26
15,4	247	2,60
15,6	257	5,86
15,8	257	4,26
16,0	238	5,99
16,2	238	4,72
16,4	317	5,56
16,6	307	5,28
16,8	268	4,10
17,0	183	2,96
17,2	211	9,27
17,4	259	6,71
17,6	259	6,58
17,8	259	4,85
18,0	259	6,08
18,2	262	8,40
18,4		
18,6		
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29,8		
30,0		



PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT

GVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA

COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY

BENEFICIAR:
UNUNIUNEA EUROPEANĂ

PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE: **acciona** ingineria
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994

NUME/NOME
ing. Gh. Neata

PROIECTANT/
DESIGNER
EXPERT CHEIE/
KEY EXPERT
ing. C. Grosu

SEMNATURA/
SIGNATURE

DATA/DATE:
03.2018

DENUMIRE
PROJECT/
DENUMIRE
LUCRARE:
"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-FRONTIERĂ"
NORD-GIURGIU NORD-FRONTIERĂ"
STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-FRONTIERA
"MODERNIZATION OF THE RAILWAY BUCHAREST NORTH
JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER"
Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN
BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS

PROJECT TITLE/
WORKS TITLE:

SPECIALITATE/
SPECIALITY
STUDIU GEOTEHNIC
Puncte periculoase

DENUMIRE PLAN/
DRAWING TITLE
CPT 5 - km 53+539
coordonate N44.007389", E26.01319"

EXEMPLAR NR./
EXEMPLARY NO.
1

COD PLAN/
CODIFICATION SYSTEM:
SG 207 Lot 2 27 C02 04 00

km 54+025

0.00 NSS ax.c.f. -0.08 ax.c.f. -0.18

2F

Sol vegetal./Vegetal soil

-5.48

-5.78

Argila, cafenie, plastic consistenta; de la -7.38m cenusie, cu intercalatii cafenii, plastic vartoasa; de la -10.18m cafenie cu intercalatii cenusii.
Teren natural./

Brown clay, plastically consistent; from -7.38m, grey, with brown intercalations, plastically stiff; from -10.18m, brown with grey intercalations.
Native ground

-11.88

Argila (argila marnoasa), cenusie, plastic vartoasa.
Teren natural./
Clay (marly clay), grey, plastically stiff.
Native ground

-17.98

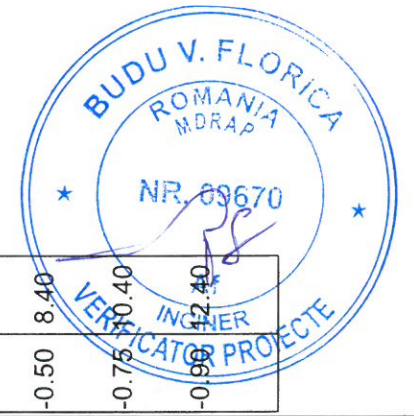
Argila prafoasa (argila marnoasa), cenusie, plastic vartoasa.
Teren natural./
Powdery clay (marly clay), grey, plastically stiff.
Native ground

-20.48

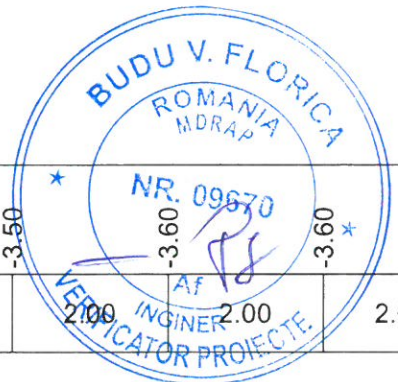
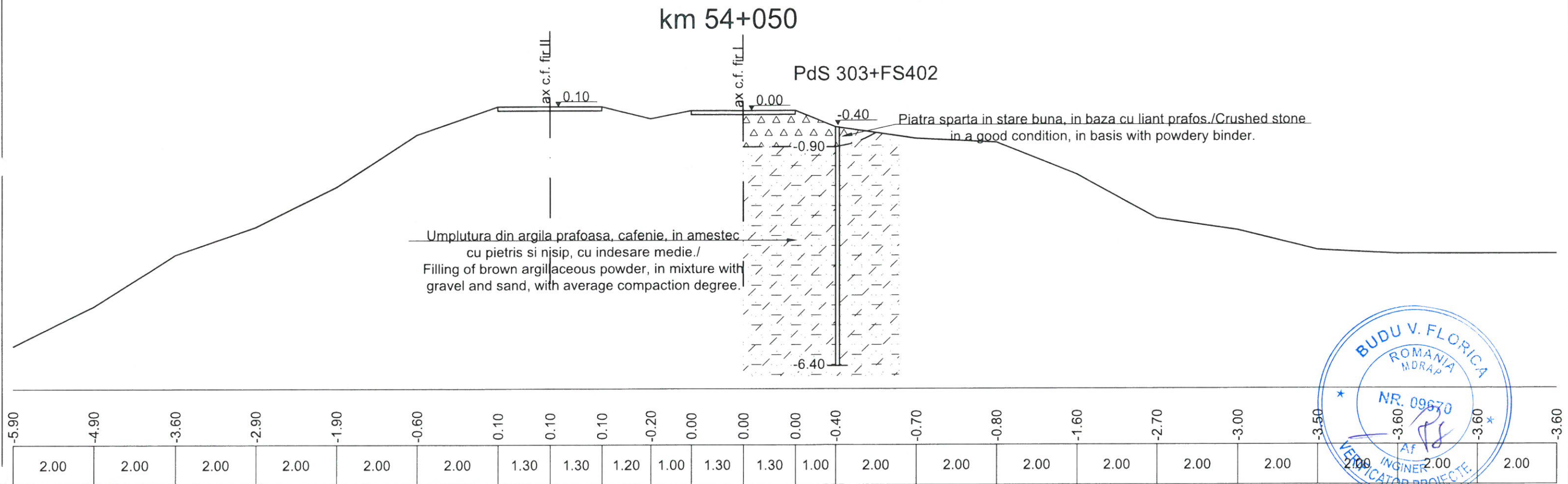
Argila (argila marnoasa), cenusie, plastic vartoasa.
Teren natural./
Powdery clay (marly clay), grey, plastically stiff.
Native ground

-30.48

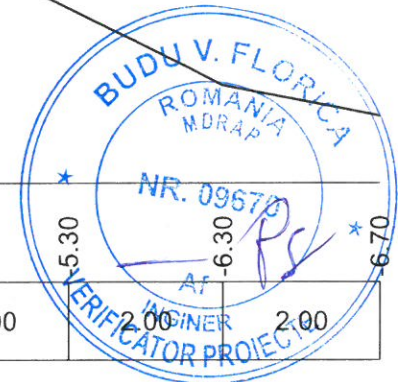
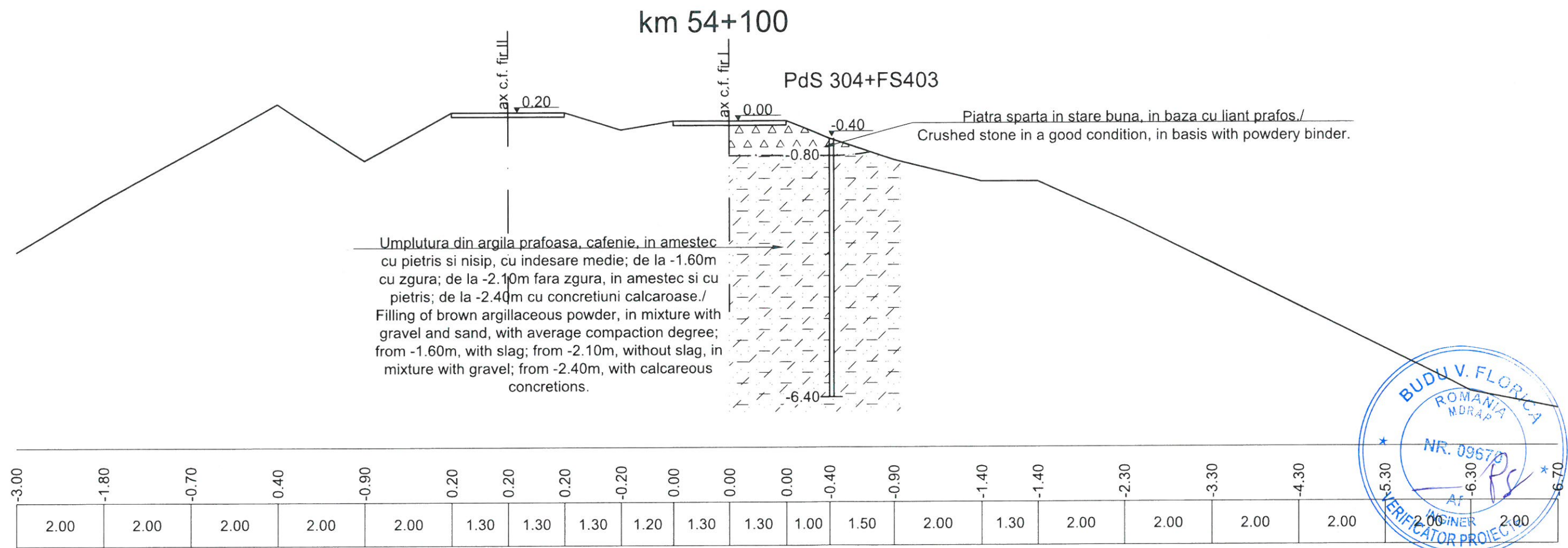
Teren	Distante	-39.00	-37.00	-35.00	-33.00	-31.80	-29.80	-27.80	-25.80	-23.80	-21.80	-19.80	-17.80	-15.80	-13.80	-11.80	-9.80	-7.80	-6.30	-5.00	-3.70	-2.40	-1.30	0.00	1.30	2.40	4.40	8.40	12.40	17.40	22.40	
	Cote	-5.85	-5.85	-5.65	-5.35	-5.30	-5.05	-4.75	-4.50	-4.25	-4.00	-3.70	-3.40	-3.05	-2.60	-2.00	-1.20	-0.45	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00	-0.30	-0.50	-0.50	-0.75	-0.90	-1.10



<p>PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT</p>		<p>GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA</p>	
<p>BENEFICIAR BENEFICIARY:</p>		<p>COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY</p>	
<p>PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994</p>		<p>DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:</p>	
<p>ing. Gh. Neata</p>		<p>SEMNATURA/ SIGNATURE</p>	
<p>ing. C. Grosu</p>		<p>SPECIALITATE/ SPECIALITY</p>	
<p>ing. M. Baicu</p>		<p>DENUMIRE PLAN/ DRAWING TITLE:</p>	
<p>DATA/DATE: 03.2018</p>		<p>SCARA/SCALE: 1:200</p>	
<p>EXPERT CHEIE/ KEY EXPERT</p>		<p>EXEMPLAR NR./ EXEMPLARY NO. 1</p>	
<p>MP/PM</p>		<p>COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 27 C03 01 00</p>	
<p>STUDIU GEOTEHNIC Puncte periculoase</p>			
<p>Profil geolitologic transversal km 54+025</p>			



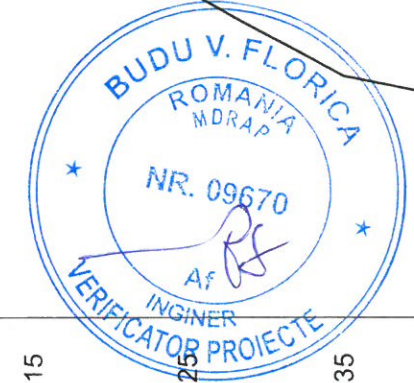
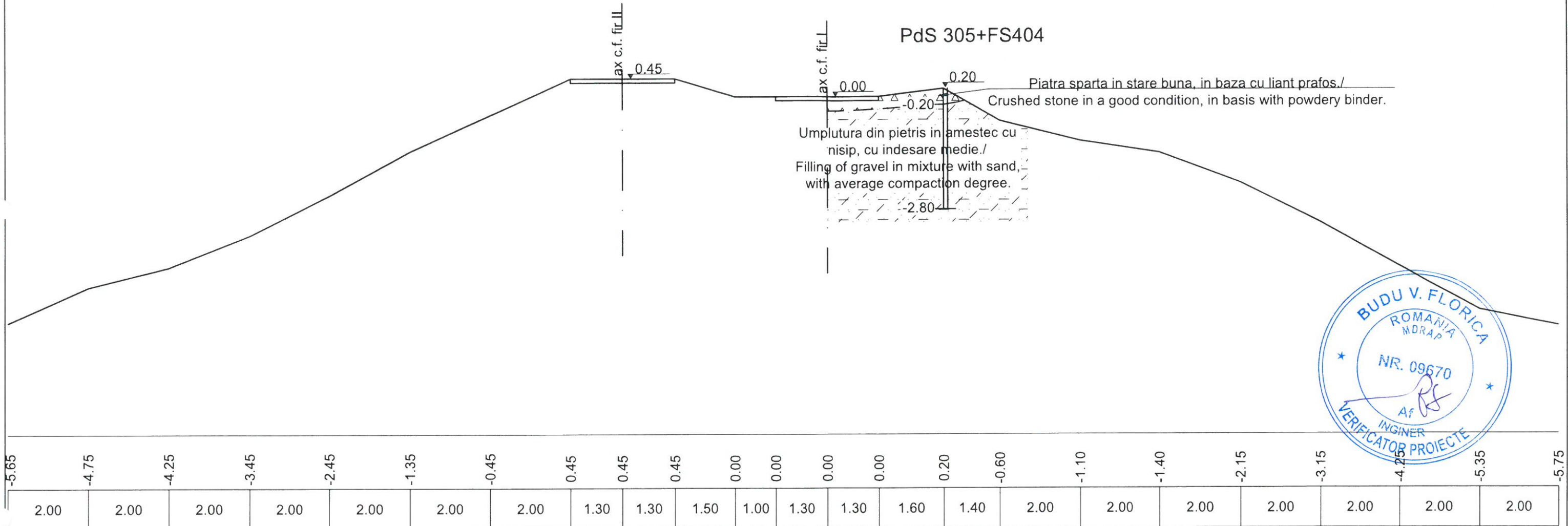
 UNIUNEA EUROPEANĂ	PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT	 ROMANIA	GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	 Instrumente Structurale 2014-2020
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY		
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	& Ingenieria	DENUMIRE PROIECT/ DENUMIRE LUCRARE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER:	NUME/NAME ing. Gh. Neata	SEMNATURA/ SIGNATURE 	SPECIALITATE/ SPECIALITY	STUDIU GEOTEHNIC Puncte periculoase
EXPERT CHEIE/ KEY EXPERT	ing. C. Grosu		DENUMIRE PLAN/ DRAWING TITLE	Profil geolitic transversal km 54+050
MP/PM	ing. M. Baicu		EXEMPLAR NR./ EXEMPLARY NO.	COD PLAN/ CODIFICATION SYSTEM:
DATA/DATE: 03.2018	SCARA/SCALE: 1:200	EXEMPLAR NR./ EXEMPLARY NO. 1	SG 207 Lot 2 27 C03 02 00	



	PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY		
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	& Ingenieria	DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
PROIECTANT/ DESIGNER: EXPERT CHEIE/ KEY EXPERT MP/PM	NUME/NAME SEMNTURA/ SIGNATURE SPECIALITATE/ SPECIALITY	STUDIU GEOTEHNIC Puncte periculoase		
DATA/DATE: 03.2018	SCARA/SCALE: 1:200	DENUMIRE PLAN/ DRAWING TITLE: EXEMPLAR NR./ EXEMPLARY NO.: 1	Profil geolitic transversal km 54+100	
		COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 27 C03 03 00		

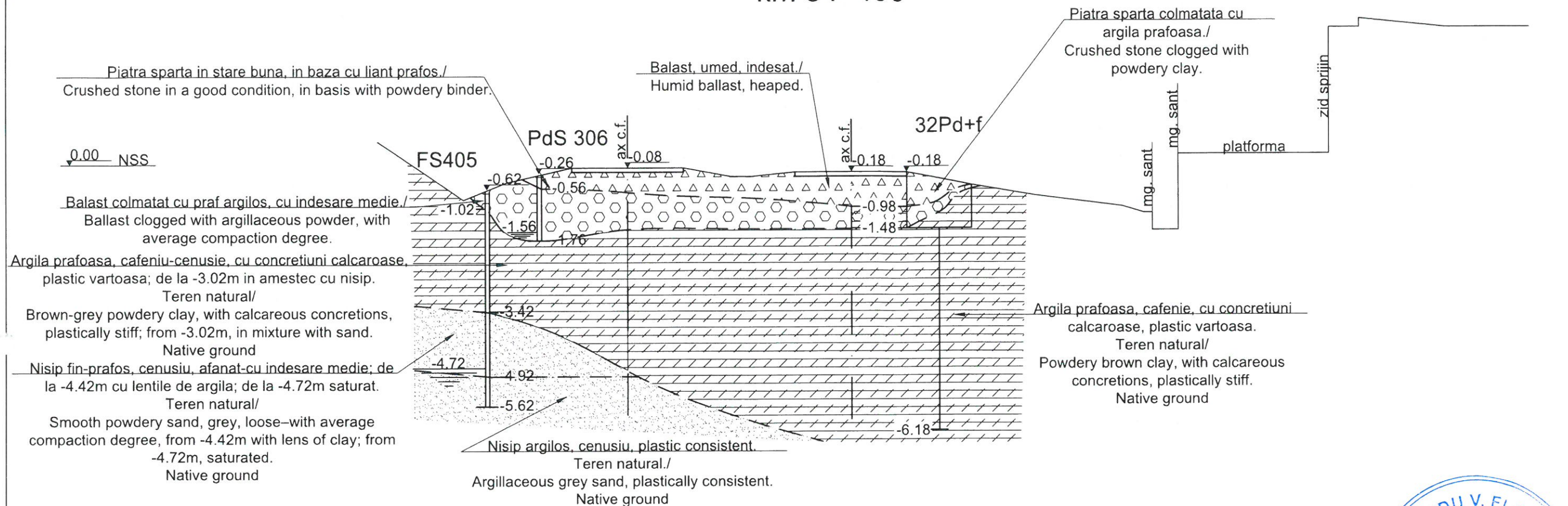
km 54+250

PdS 305+FS404

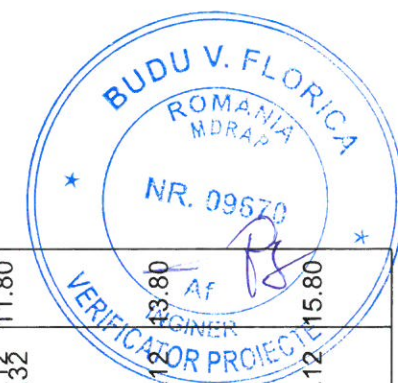


PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: &		DENUMIRE PROIECT/ DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
ASOCIEREA/ JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: JI40/12943/1994		PROJECT TITLE/ WORKS TITLE:	
PROIECTANT/ DESIGNER: ing. Gh. Neata		SEMNATURA/ SIGNATURE:	
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu		SPECIALITATE/ SPECIALITY: STUDIU GEOTEHNIC Puncte periculoase	
MP/PM: ing. M. Baicu		DENUMIRE PLAN/ DRAWING TITLE: Profil geolitic transversal km 54+250	
DATA/DATE: 03.2018		SCARA/SCALE: 1:200	
EXEMPLAR NR./ EXEMPLARY NO.: 1		COD PLAN/ CODIFICATION SYSTEM: SG 207 Lot 2 27 C03 04 00	

km 54+400

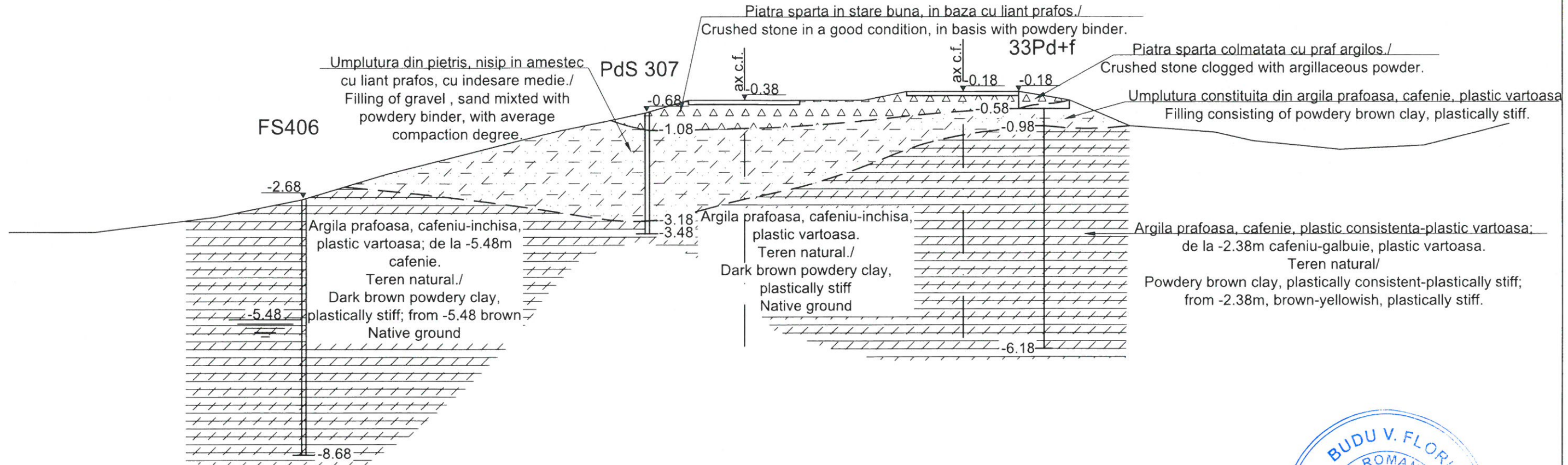


Teren	Distanțe	Cote																							
		-11.00	-9.00	-8.50	-8.00	-7.30	-6.50	-5.20	-3.90	-2.80	-2.30	-1.30	0.00	1.30	2.80	4.30	6.30	9.80	7.60	11.10	11.80				
		0.53	-0.82	-0.62	-0.42	-0.08	-0.08	-0.08	-0.08	-0.28	-0.28	-0.18	-0.18	-0.18	-0.48	-0.73	-0.98	-1.13	-1.53	-1.53	0.22	3.22	3.32	3.12	3.12

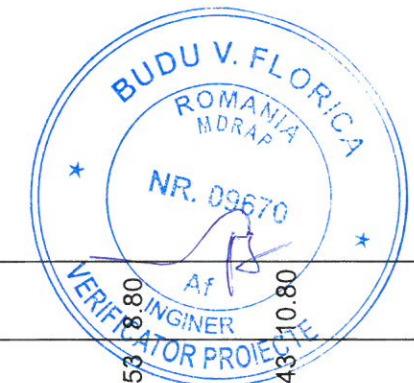


PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR/BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/DESIGNER:		DENUMIRE PROIECT/DENUMIRE LUCRARE: "MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS	
ASOCIEREA/JOINT VENTURE: J40/9877/2001 & J40/20534/2004 SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994		PROJECT TITLE/WORKS TITLE:	
PROIECTANT/DESIGNER: ing. Gh. Neata		SPECIALITATE/SPECIALITY:	
EXPERT CHEIE/KEY EXPERT: ing. C. Grosu		DENUMIRE PLAN/DRAWING TITLE:	
MP/PM: ing. M. Baicu		COD PLAN/CODIFICATION SYSTEM:	
DATA/DATE: 03.2018		SCARA/SCALE: 1:100	
EXEMPLAR NR./EXEMPLARY NO.: 1		SG 207 Lot 2 27 C03 05 00	

km 54+600

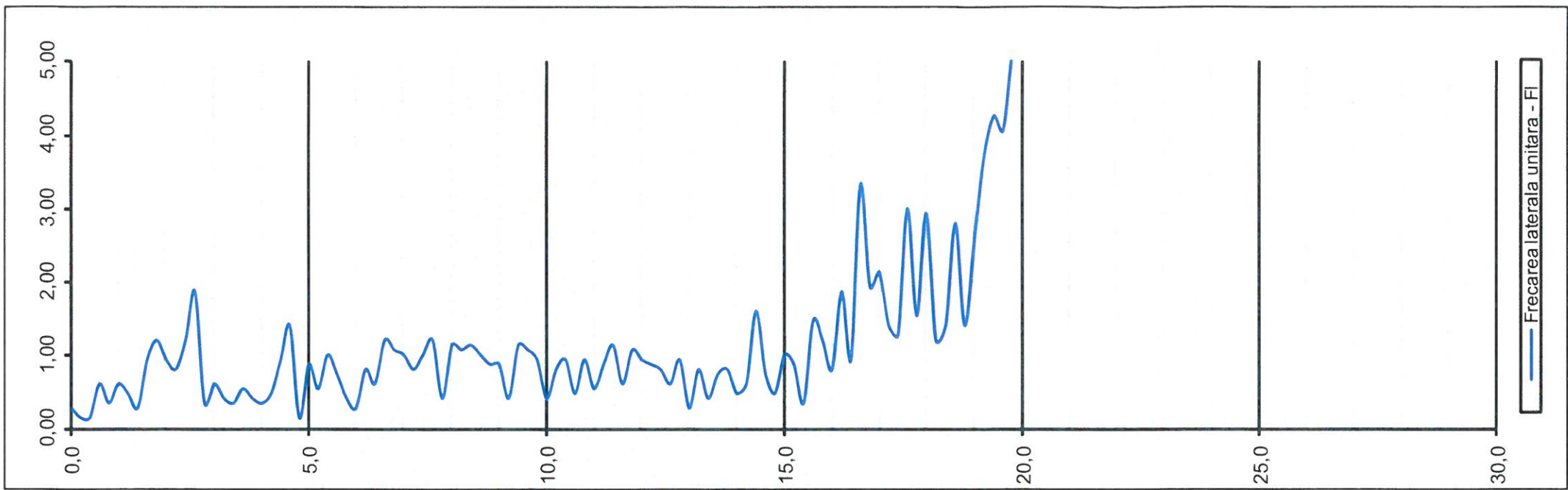
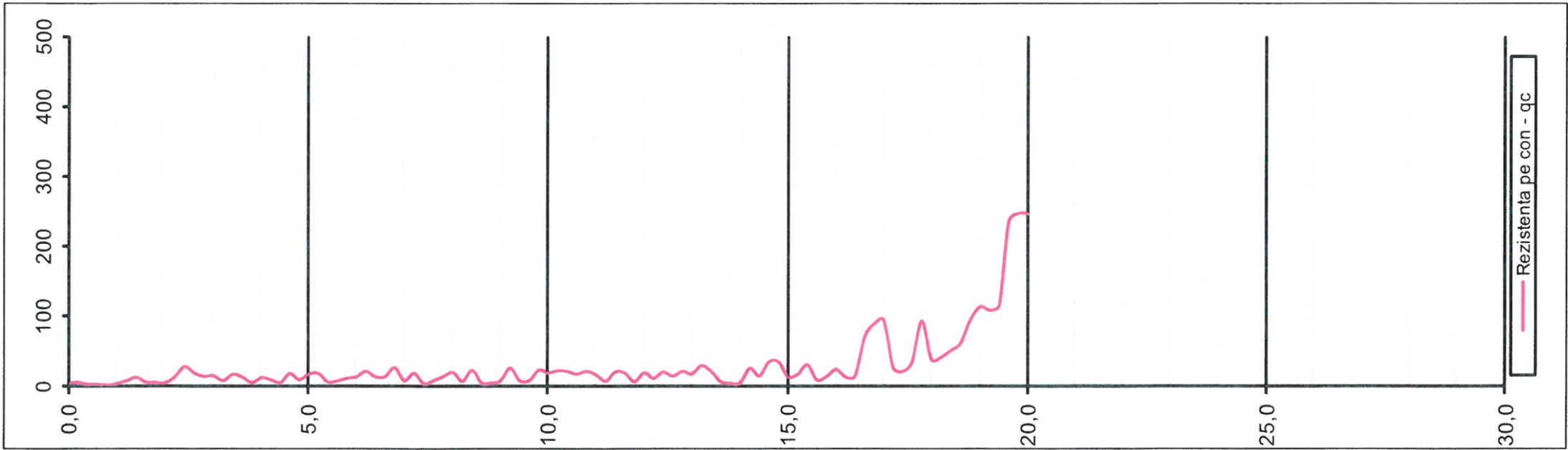
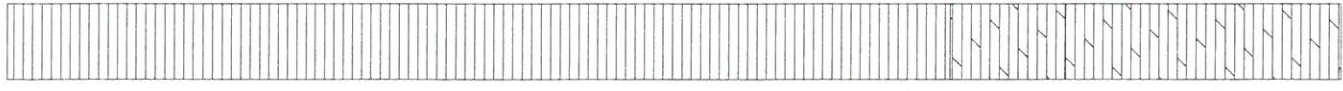


Distante Teren	-3.43	-22.20	-3.43	-20.20	-3.33	-19.40	-3.08	-17.40	-2.68	-15.40	-1.18	-13.40	-1.58	-11.40	-1.08	-9.40	-0.68	-7.40	-0.38	-6.40	-0.38	-5.10	-0.38	-3.80	-0.38	-2.30	-0.18	-1.30	0.00	1.30	2.50	3.90	5.90	6.80	-1.58	8.80	-1.43	10.80	-0.93	12.80
Cote	-3.43	-22.20	-3.43	-20.20	-3.33	-19.40	-3.08	-17.40	-2.68	-15.40	-1.18	-13.40	-1.58	-11.40	-1.08	-9.40	-0.68	-7.40	-0.38	-6.40	-0.38	-5.10	-0.38	-3.80	-0.38	-2.30	-0.18	-1.30	0.00	1.30	2.50	3.90	5.90	6.80	-1.58	8.80	-1.43	10.80	-0.93	12.80



PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT		GUVERNUL ROMÂNIEI GOVERNMENT OF ROMANIA	
BENEFICIAR BENEFICIARY:		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN RAILWAY NATIONAL COMPANY	
PROIECTANT/ DESIGNER: ASOCIEREA/ JOINT VENTURE: SUBCONTRACTANT/ GEO - SERV SRL SUBCONTRACTOR: J/40/12943/1994	&	DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE:	"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU NORD-GIURGIU NORD FRONTIERĂ" Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE STATIILE CF BUCURESTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS
PROIECTANT/ DESIGNER: ing. Gh. Neata	SEMNATURA/ SIGNATURE:	SPECIALITATE/ SPECIALITY:	STUDIU GEOTEHNIC Puncte periculoase
EXPERT CHEIE/ KEY EXPERT: ing. C. Grosu	SEMNATURA/ SIGNATURE:	DENUMIRE PLAN/ DRAWING TITLE:	Profil transversal km 54+600
MP/PM: ing. M. Baicu	SEMNATURA/ SIGNATURE:	EXEMPLAR NR./ EXEMPLARY NO.: 1	COD PLAN/ CODIFICATION SYSTEM:
DATA/DATE: 03.2018	SCARA/SCALE: 1:200	SG 207 Lot 2 27 C03 06 00	

Adâncimea	qc-dn/cm ²	Fl-dn/cm ²
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0,2	6	0,13
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0,6	3	0,60
0,8	2	0,33
1,0	4	0,60
1,2	8	0,47
1,4	13	0,27
1,6	6	0,93
1,8	6	1,20
2,0	5	0,93
2,2	13	0,80
2,4	28	1,20
2,6	20	1,87
2,8	15	0,33
3,0	16	0,60
3,2	9	0,40
3,4	18	0,33
3,6	14	0,53
3,8	6	0,40
4,0	13	0,33
4,2	10	0,47
4,4	6	0,93
4,6	19	1,40
4,8	10	0,13
5,0	18	0,87
5,2	19	0,53
5,4	7	1,00
5,6	8	0,73
5,8	12	0,40
6,0	14	0,27
6,2	22	0,60
6,4	14	0,60
6,6	14	1,20
6,8	27	1,07
7,0	8	1,00
7,2	19	0,80
7,4	4	1,00
7,6	8	1,20
7,8	14	0,40
8,0	20	1,13
8,2	7	1,07
8,4	23	1,13
8,6	5	1,00
8,8	5	0,87
9,0	8	0,87
9,2	26	0,40
9,4	8	1,13
9,6	9	1,07
9,8	24	0,93
10,0	20	0,40
10,2	23	0,80
10,4	22	0,93
10,6	18	0,47
10,8	22	0,93
11,0	17	0,53
11,2	8	0,87
11,4	21	1,13
11,6	20	0,60
11,8	7	1,07
12,0	20	0,93
12,2	12	0,87
12,4	21	0,80
12,6	15	0,60
12,8	22	0,93
13,0	18	0,27
13,2	30	0,80
13,4	22	0,40
13,6	7	0,73
13,8	5	0,80
14,0	5	0,47
14,2	26	0,60
14,4	15	1,60
14,6	35	0,73
14,8	35	0,47
15,0	14	1,00
15,2	17	0,87
15,4	31	0,33
15,6	9	1,47
15,8	14	1,20
16,0	24	0,80
16,2	13	1,87
16,4	15	0,93
16,6	71	3,33
16,8	89	1,93
17,0	94	2,13
17,2	26	1,40
17,4	21	1,27
17,6	34	3,00
17,8	93	1,53
18,0	38	2,93
18,2	41	1,20
18,4	51	1,40
18,6	61	2,80
18,8	94	1,40
19,0	113	2,60
19,2	108	3,73
19,4	115	4,27
19,6	236	4,07
19,8	246	5,19
20,0	246	5,39
20,2		
20,4		
20,6		
20,8		
21,0		
21,2		
21,4		
21,6		
21,8		
22,0		
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PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT



GVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA



BENEFICIAR
BENEFICIARY: **CFR**
COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY

PROIECTANT/
DESIGNER: **acciona**
ASOCIEREA/
JOINT VENTURE: **B** & **acciona**
INGINIERIA
J40/9877/2001 J40/20534/2004
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994

DENUMIRE
PROIECT/
DENUMIRE
LUCRARE:
PROJECT TITLE/
WORKS TITLE:
"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU
NORD-GIURGIU NORD FRONTIERĂ"
Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE
STATIILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA
"MODERNIZATION OF THE RAILWAY BUCHAREST NORTH
JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER"
Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN
BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS

NUME/NOME
NOME/NOME
ing. Gh. Neata
ing. C. Grosu
ing. M. Baicu

SEMNTURA/
SIGNATURE
SCARA/SCALE:

SPECIALITATE/
SPECIALITY
STUDIU GEOTEHNIC
Puncte periculoase

DENUMIRE PLAN/
DRAWING TITLE
CPT 6 - km 54+100
coordonate N44.003665", E26.008216"

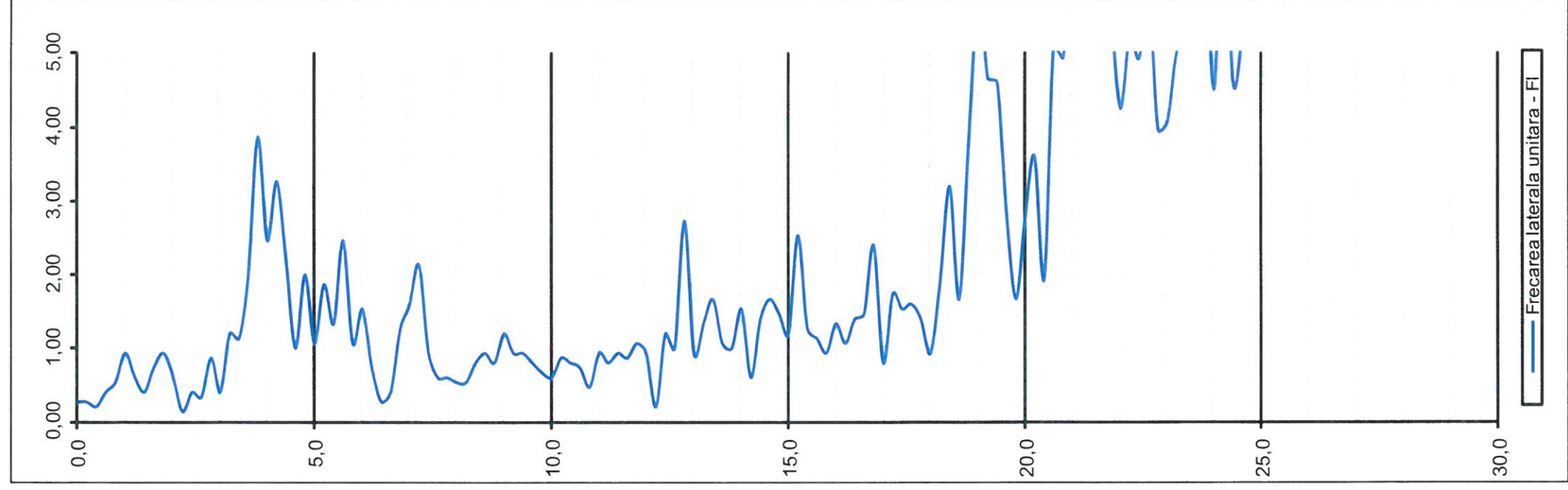
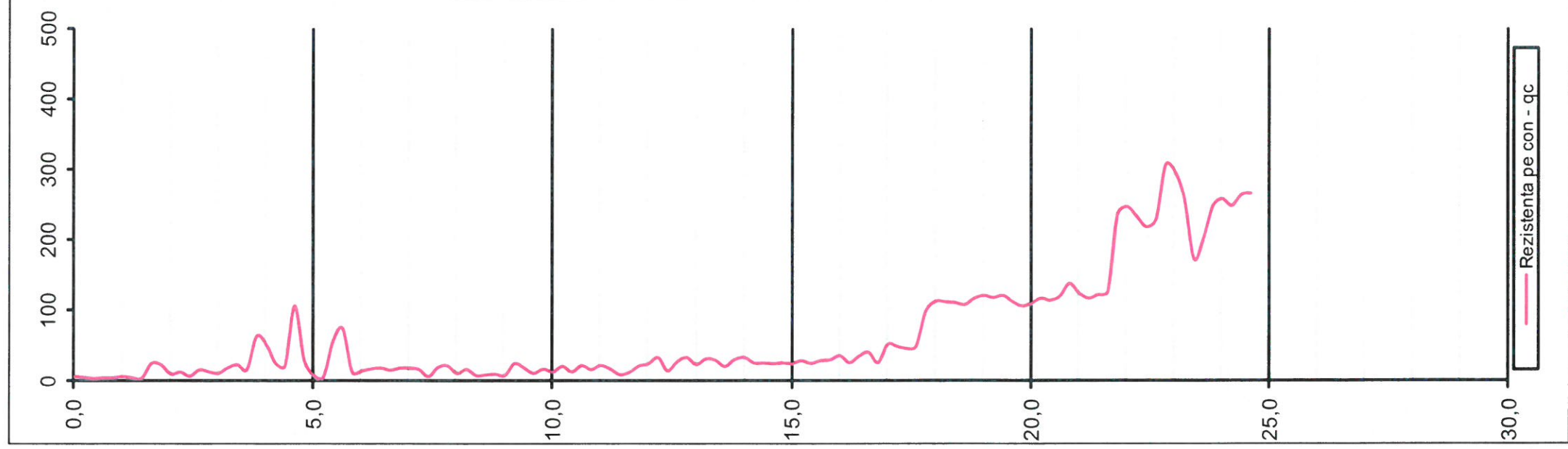
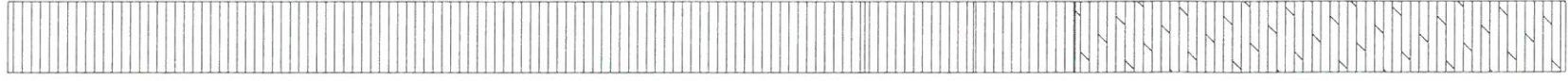
EXEMPLAR NR./
EXEMPLARY NO.
1

DATA/DATE:
03.2018



SG 207 Lot 2 27 C03 07 00

Adâncimea	qc-dan/cm ²	Fl-dan/N/cm ²
0,0	5	0,27
0,2	4	0,27
0,4	2	0,20
0,6	3	0,40
0,8	3	0,53
1,0	5	0,93
1,2	3	0,60
1,4	2	0,40
1,6	23	0,73
1,8	21	0,93
2,0	8	0,60
2,2	11	0,13
2,4	5	0,40
2,6	15	0,33
2,8	12	0,87
3,0	10	0,40
3,2	18	1,20
3,4	22	1,13
3,6	15	2,00
3,8	62	3,87
4,0	51	2,47
4,2	24	3,27
4,4	20	2,20
4,6	105	1,00
4,8	28	2,00
5,0	7	1,07
5,2	4	1,87
5,4	56	1,33
5,6	73	2,47
5,8	11	1,07
6,0	13	1,53
6,2	16	0,73
6,4	17	0,27
6,6	14	0,40
6,8	17	1,27
7,0	17	1,60
7,2	15	2,13
7,4	5	0,93
7,6	18	0,60
7,8	20	0,60
8,0	9	0,53
8,2	15	0,53
8,4	6	0,80
8,6	7	0,93
8,8	8	0,80
9,0	6	1,20
9,2	23	0,93
9,4	17	0,93
9,6	10	0,80
9,8	16	0,67
10,0	12	0,60
10,2	20	0,87
10,4	12	0,80
10,6	21	0,73
10,8	15	0,47
11,0	21	0,93
11,2	16	0,80
11,4	8	0,93
11,6	11	0,87
11,8	20	1,07
12,0	23	0,93
12,2	32	0,20
12,4	13	1,20
12,6	26	1,00
12,8	32	2,73
13,0	22	0,93
13,2	30	1,33
13,4	28	1,67
13,6	19	1,07
13,8	29	1,00
14,0	32	1,53
14,2	24	0,60
14,4	24	1,40
14,6	23	1,67
14,8	24	1,47
15,0	23	1,20
15,2	27	2,53
15,4	23	1,27
15,6	27	1,13
15,8	28	0,93
16,0	34	1,33
16,2	24	1,07
16,4	33	1,40
16,6	39	1,47
16,8	24	2,40
17,0	50	0,80
17,2	47	1,73
17,4	44	1,53
17,6	47	1,60
17,8	97	1,40
18,0	111	0,93
18,2	110	1,93
18,4	109	3,20
18,6	106	1,67
18,8	115	3,80
19,0	119	5,87
19,2	116	4,67
19,4	119	4,60
19,6	110	2,80
19,8	104	1,67
20,0	108	2,80
20,2	115	3,60
20,4	112	1,93
20,6	118	5,07
20,8	136	4,93
21,0	122	6,33
21,2	115	6,20
21,4	120	5,80
21,6	124	9,00
21,8	235	5,87
22,0	245	4,27
22,2	231	5,21
22,4	216	4,94
22,6	226	5,79
22,8	305	3,96
23,0	295	4,08
23,2	256	5,03
23,4	171	5,09
23,6	199	5,60
23,8	247	6,25
24,0	256	4,53
24,2	247	7,58
24,4	262	4,60
24,6	264	5,33
24,8		
25,0		
25,2		
25,4		
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PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT



COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY



GUVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA



PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/
KEY EXPERT
SUBCONTRACTOR: J/40/12943/1994



acciona
Ingeniería
J40/20534/2004



BALCONS
J40/9877/2001

SEMNAȚURA/
SIGNATURE

ing. Gh. Neata
ing. C. Grosu
ing. M. Balcu

SCARA/SCALE:
-

DATA/DATE:
03.2018



DENUMIRE
PROIECT/
DENUMIRE
LUCRARE:
PROJECT TITLE/
WORKS TITLE:
SPECIALITATE/
SPECIALITY

"MODERNIZAREA LINIEI CF BUCUREȘTI NORD-JILAVA-GIURGIU
NORD-GIURGIU NORD FRONTIERA"
Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CĂLE FERATE DINTRE
STATILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA
"MODERNIZATION OF THE RAILWAY BUCHAREST NORTH
JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER"
Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN
BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS

EXEMPLAR NR./
DRAWING TITLE
EXEMPLAR NO./
EXEMPLARY NO.

1

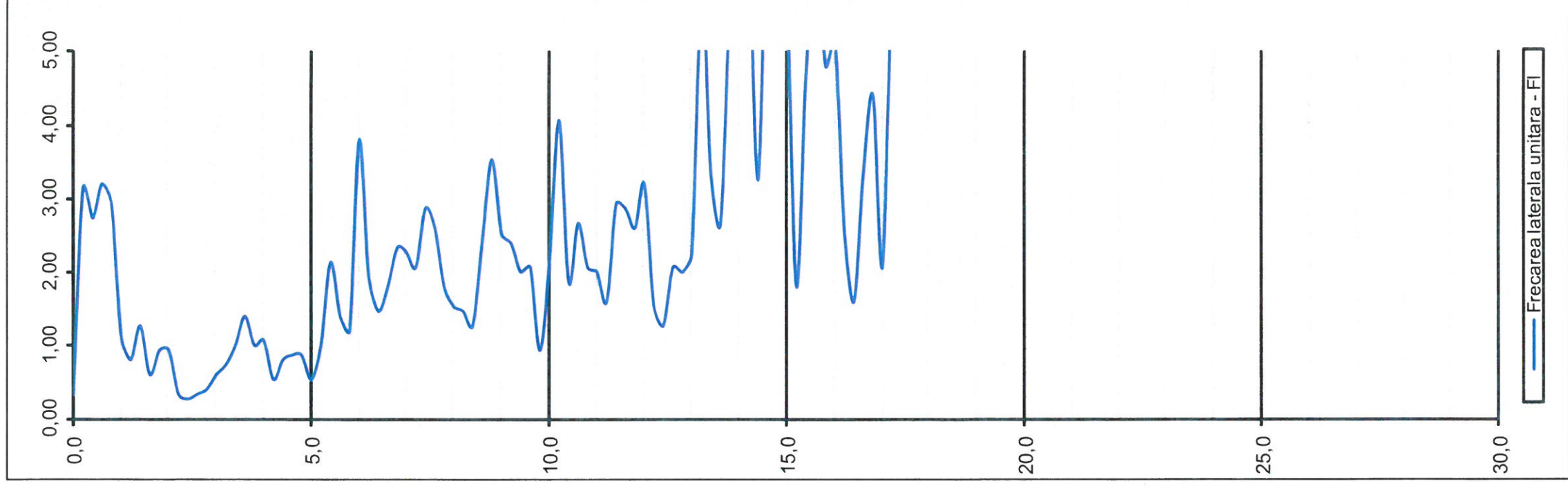
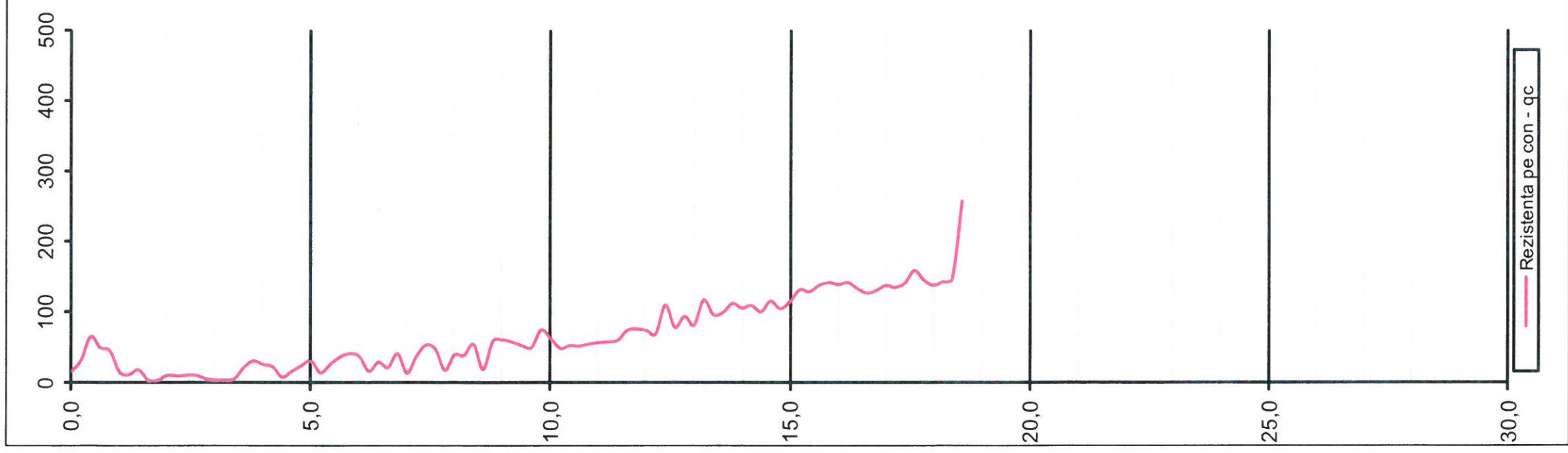
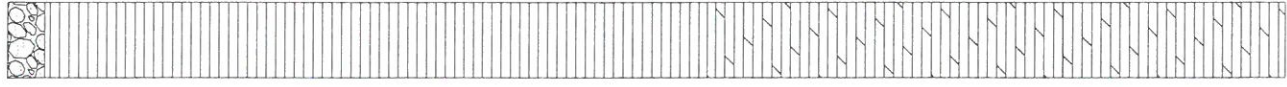
STUDIU GEOTEHNIC
Puncte periculoase

CPT 7 - km 54+250
coordonate N44.02902", E26.007109"

COD PLAN/
CODIFICATION SYSTEM:

SG 207 Lot 2 27 C03 08 00

Adâncimea	qc-daN/cm ²	F ₁ daN/cm ²
0,0	16	0,33
0,2	31	3,13
0,4	65	2,73
0,6	49	3,20
0,8	45	2,93
1,0	15	1,13
1,2	11	0,80
1,4	18	1,27
1,6	3	0,60
1,8	3	0,93
2,0	10	0,93
2,2	9	0,33
2,4	10	0,27
2,6	11	0,33
2,8	6	0,40
3,0	4	0,60
3,2	4	0,73
3,4	6	1,00
3,6	22	1,40
3,8	31	1,00
4,0	26	1,07
4,2	23	0,53
4,4	8	0,80
4,6	16	0,87
4,8	24	0,87
5,0	31	0,53
5,2	14	1,00
5,4	26	2,13
5,6	36	1,40
5,8	41	1,20
6,0	37	3,80
6,2	16	1,93
6,4	29	1,47
6,6	21	1,80
6,8	41	2,33
7,0	13	2,27
7,2	37	2,07
7,4	53	2,87
7,6	47	2,60
7,8	17	1,80
8,0	39	1,53
8,2	38	1,47
8,4	54	1,27
8,6	18	2,40
8,8	58	3,53
9,0	60	2,53
9,2	57	2,40
9,4	52	2,00
9,6	50	2,07
9,8	75	0,93
10,0	63	2,13
10,2	49	4,07
10,4	53	1,87
10,6	52	2,67
10,8	55	2,07
11,0	57	2,00
11,2	58	1,60
11,4	60	2,93
11,6	74	2,87
11,8	76	2,60
12,0	74	3,20
12,2	69	1,53
12,4	110	1,27
12,6	78	2,07
12,8	94	2,00
13,0	81	2,27
13,2	117	5,80
13,4	96	3,33
13,6	99	2,67
13,8	112	5,73
14,0	105	6,73
14,2	109	6,20
14,4	100	3,27
14,6	115	7,53
14,8	104	5,73
15,0	114	5,53
15,2	131	1,80
15,4	128	4,73
15,6	137	6,47
15,8	141	4,80
16,0	138	5,13
16,2	141	2,53
16,4	132	1,60
16,6	126	3,40
16,8	130	4,40
17,0	137	2,07
17,2	134	5,80
17,4	140	6,47
17,6	158	5,73
17,8	144	6,07
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18,2	142	9,60
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PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT

PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994



BENEFICIAR
BENEFICIARY:
COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY



GUVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA



PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994



PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994

NUME/NOME
ing. Gh. Neata

PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE:
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994

EXPERT CHEIE/
KEY EXPERT
ing. C. Grosu

MP/PM
ing. M. Baicu

DATA/DATE:
03.2018

SCARA/SCALE:
-

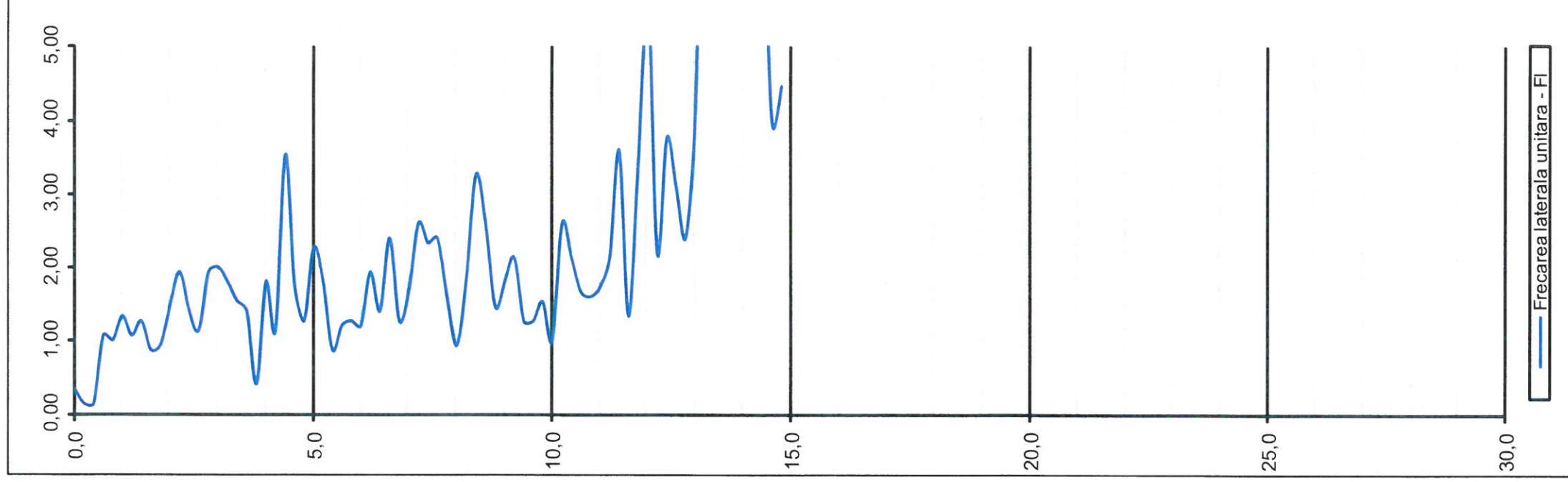
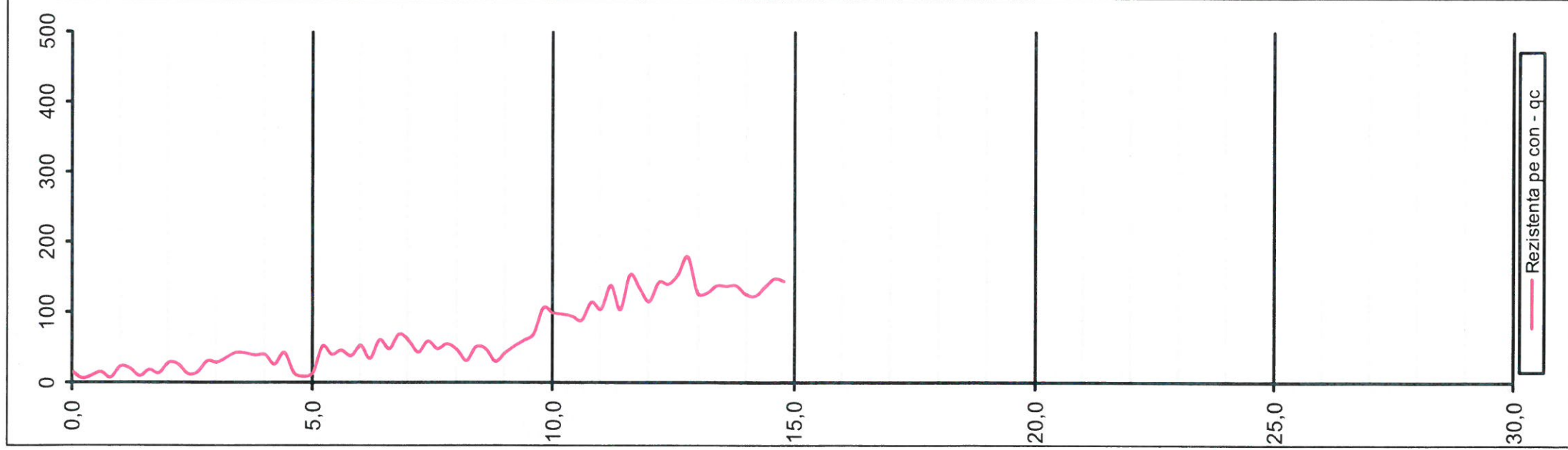
DENUMIRE
PROIECT/
DENUMIRE
LUCRARE:
Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATA DINTRE
STATILE CF BUCURESTI-NORD-GIURGIU-NORD-FRONTIERA
"MODERNIZATION OF THE RAILWAY BUCHAREST NORTH
JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER"
Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN
BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS

SPECIALITATE/
SPECIALITY
STUDIU GEOTEHNIC
Puncte periculoase

DENUMIRE PLAN/
DRAWING TITLE
CPT 8 - km 54+361
coordonate N44.00159", E26.005875"

EXEMPLAR NR./
EXEMPLARY NO.
1
COD PLAN/
CODIFICATION SYSTEM:
SG 207 Lot 2 27 C03 09 00

Adâncimea	qc-daN/cm ²	F ₁ daN/cm ²
0,0	16	0,33
0,2	6	0,13
0,4	10	0,13
0,6	15	1,07
0,8	7	1,00
1,0	23	1,33
1,2	20	1,07
1,4	9	1,27
1,6	18	0,87
1,8	13	0,93
2,0	28	1,47
2,2	26	1,93
2,4	12	1,40
2,6	15	1,13
2,8	31	1,93
3,0	29	2,00
3,2	36	1,80
3,4	43	1,53
3,6	42	1,40
3,8	39	0,40
4,0	40	1,80
4,2	26	1,13
4,4	43	3,53
4,6	14	1,73
4,8	9	1,27
5,0	14	2,27
5,2	52	1,80
5,4	40	0,87
5,6	46	1,20
5,8	38	1,27
6,0	53	1,20
6,2	34	1,93
6,4	61	1,40
6,6	48	2,40
6,8	69	1,27
7,0	60	1,67
7,2	43	2,60
7,4	59	2,33
7,6	48	2,40
7,8	55	1,60
8,0	47	0,93
8,2	31	1,87
8,4	51	3,27
8,6	48	2,60
8,8	30	1,47
9,0	42	1,80
9,2	52	2,13
9,4	60	1,27
9,6	70	1,27
9,8	107	1,53
10,0	100	1,00
10,2	98	2,60
10,4	95	2,13
10,6	89	1,67
10,8	115	1,60
11,0	105	1,73
11,2	139	2,13
11,4	104	3,60
11,6	154	1,33
11,8	135	3,40
12,0	115	5,63
12,2	143	2,19
12,4	140	3,77
12,6	154	3,09
12,8	180	2,41
13,0	127	4,18
13,2	127	9,98
13,4	138	9,80
13,6	137	8,80
13,8	138	9,93
14,0	126	8,56
14,2	123	8,67
14,4	136	6,88
14,6	148	3,95
14,8	144	4,47
15,0		
15,2		
15,4		
15,6		
15,8		
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16,2		
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PROIECT FINANȚAT DE
UNIUNEA EUROPEANĂ
EUROPEAN UNION
FINANCED PROJECT

GVERNUL ROMÂNIEI
GOVERNMENT OF
ROMANIA

PROIECTANT/
DESIGNER:
ASOCIEREA/
JOINT
VENTURE: 140/9877/2001
SUBCONTRACTANT/ GEO - SERV SRL
SUBCONTRACTOR: J/40/12943/1994

BENEFICIAR
BENEFICIARY:
COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A.
ROMANIAN RAILWAY NATIONAL COMPANY

Lot 2 - MODERNIZAREA INFRASTRUCTURII DE CALE FERATE DINTRE STATILE CF BUCUREȘTI NORD-GIURGIU NORD-GIURGIU NORD FRONTIERA "MODERNIZATION OF THE RAILWAY BUCHAREST NORTH JILAVA - GIURGIU NORTH - GIURGIU NORTH BORDER" Lot 2 - MODERNIZATION OF THE RAILWAY INFRASTRUCTURE BETWEEN BUCHAREST NORTH GIURGIU NORTH - GIURGIU BORDER STATIONS

DENUMIRE PROIECT/ DENUMIRE LUCRARE: PROJECT TITLE/ WORKS TITLE: SPECIALITATE/ SPECIALITY: DENUMIRE PLAN/ DRAWING TITLE: EXEMPLAR NR./ EXEMPLARY NO.:	SEMNATURA/ SIGNATURE: Ing. Gh. Neata Ing. C. Grosu Ing. M. Baicu DATA/DATE: 03.2018	SCARA/SCALE: -	STUDIU GEOTEHNIC Puncte periculoase CPT 9 - km 54+600 coordonate N43.999814", E26.00475"
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SG 207 Lot 2 27 C03 10 00