

UNIUNEA EUROPEANA



Proiect finantat prin ISPA

ROMANIA



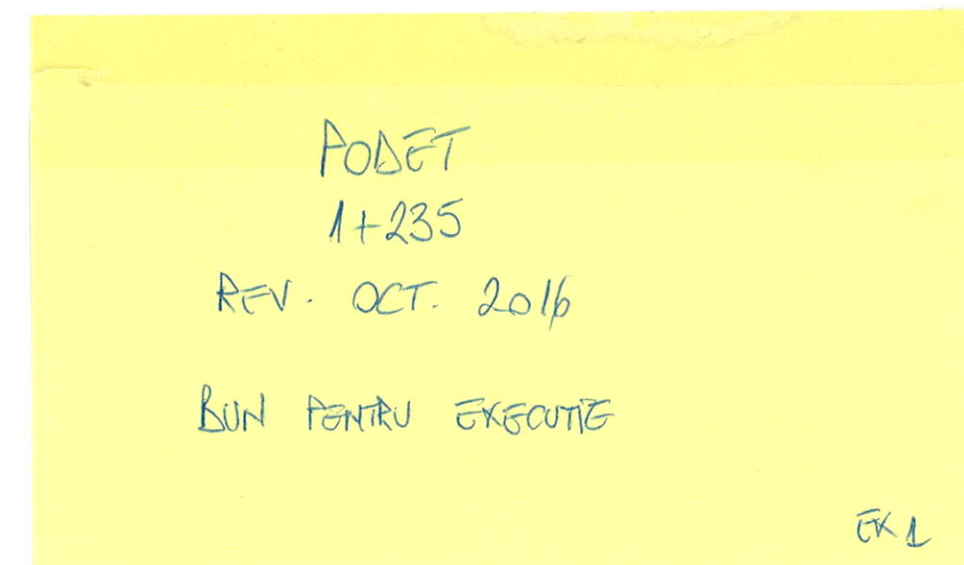
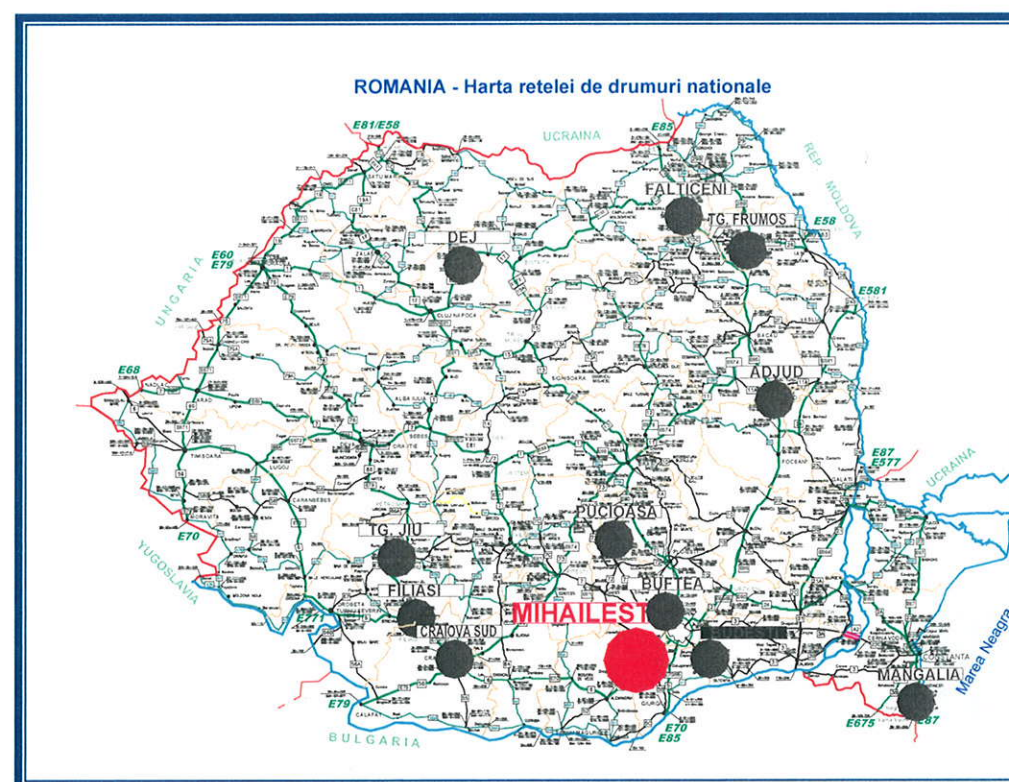
GUVERNUL ROMANIEI

CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI

DETALII DE EXECUTIE

VOLUMUL 2

LUCRARI DE PODURI



Beneficiar:
COMPANIA NATIONALA DE
ADMINISTRARE A INFRASTRUCTURII RUTIERE



Antreprenor:
COPISA CONSTRUCTORA PIRENAICA



Proiectant:
S.C. CONSITRANS S.R.L.





România, București, Str. Polonă nr. 56, ap. 1,2,3,4,5,6,7,8, sector 1, cod 010504
Tel.: +40 021 2108906, +40 021 2106050, Fax: +40 021 2107966

Denumirea lucrării: **CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI**
Contract: **CN3412-0011/16**
Beneficiar: **COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE**
Anul: **2016**

LISTA DE SEMNATURI

- DETALII DE EXECUTIE -

DIRECTOR DIVIZIE PROIECTARE:

ing. Bogdan PAUNESCU

SEF PROIECT :

ing. RAZVAN POSTOACA

INGINER PROIECTANT :

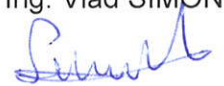
ing. Vlad SIMON

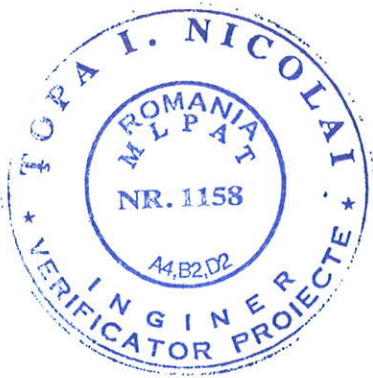


BORDEROU

PODET KM 1+235

1	Dispozitie generala	1:100	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	D	G	-	0	0	1	0	0
2	Plan trasare fundatii	1:100	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	P	T	F	0	0	1	0	0
3	Plan cofraj culee	1:50; 1:100	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	P	C	C	0	0	1	0	0
4	Plan armare culee	1:50	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	P	A	C	0	0	1	0	0
5	Plan cofraj si armare placa de racordare	1:20	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	A	P	R	0	0	1	0	0
6	Plan cofraj si armare grinda de rezemare + pozitionare placi de racordare	1:20;1:50; 1:100	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	A	G	R	0	0	1	0	0
7	Plan trasare sferturi de con	1:100	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	P	T	F	0	0	2	0	0
8	Plan armare dala D5	1:10	P	C	T	0	0	0	1	P	R	P	1	D	E	0	1	P	T	D	0	0	1	0	0

Intocmit,
Ing. Vlad SIMON




Numele si prenumele vericatorului atestat:

prof. dr. ing. Nicolai TOPA

Firma: U.T.C.B.

Adresă, telefon, fax:

Bucuresti, str. Grigore Moisil nr. 2;

Bl.6A; Sc. A; Ap. 15; Sector 2.

Tel: 021-242.12.02 serv.

021-687.46.42 ac.

D.E . Nr. 479 / III Data: 27.10.2016

REFERAT

Privind verificarea de calitate la cerinta A4; B2; D2 a proiectului:

CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI

Faza: DETALII DE EXECUTIE

1. Date de identificare:

- Proiectant general: **S.C. CONSITRANS S.R.L.**

Beneficiar: **COMPANIA NAȚIONALĂ DE ADMINISTRARE A INFRASTRUCTURII RUTIERE**

- Amplasament: MIHAILESTI –Jud. Giurgiu

- Data prezentarii proiectului pentru verificare: 27.10.2016

2. Caracteristicile principale ale proiectului si ale constructiei:

Se propune intocmirea in faza D.E a documentatiei tehnice pentru executia

VARIANTEI DE OCOLIRE MIHAILESTI

În elaborarea calculelor se au în vedere prevederile Eurocodurilor, precum și a normelor românești aflate in vigoare

Descrierea lucrarilor de arta

Podet km 1+235

Podetul este amplasat pe un drum agricol si traverseaza normal Varianta de Ocolire Mihailesti; acesta are lumina de 5.00m si asigura un gabarit de 5.00m.

Suprastructura, este formata din dale prefabricate cu corzi aderente tip D5 cu inaltimea de 0.40m peste care se toarna un beton de panta cu o grosime minima de 2cm si hidroizolatie pentru protectia suprastructurii.

La capete, dalele reazema direct pe bancheta pe un mortar de poza. Latimea caii variantei ocolitoare este de 18.60m, lungimea totala a podetului fiind 21.85 m.

Infrastructura podetului este realizata din beton armat, culeele fiind incastrate intr-un radier comun. Fundarea este directa cu lungimea de 23.50m.

Concluzii

Documente ce se prezinta la verificare:

Piese scrise:

- Piese desenate: conform borderou anexat

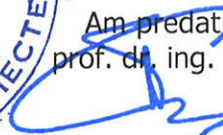
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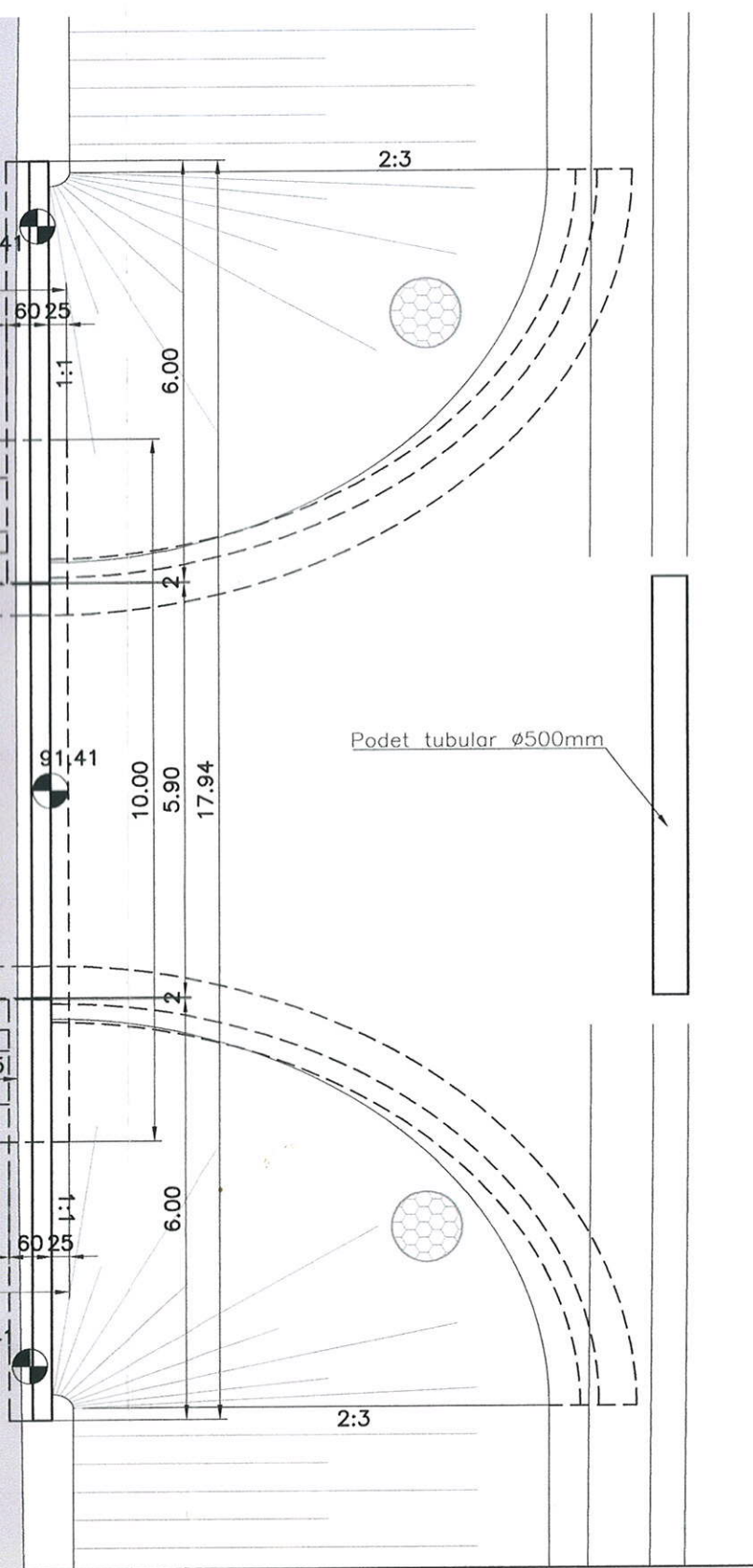
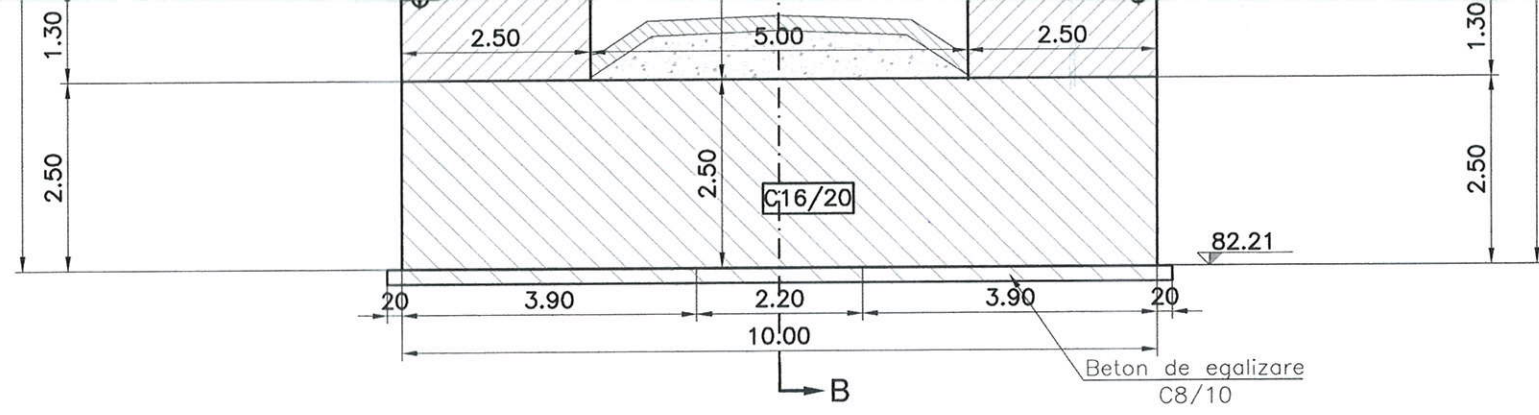
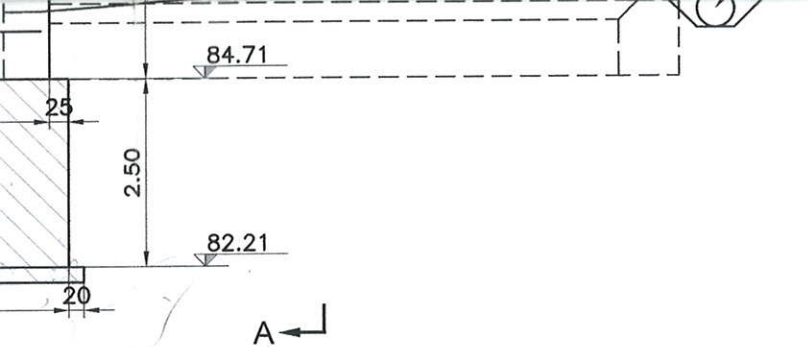
În urma verificarii tehnice se considera proiectul corespunzator pentru faza verificata, semnându-se si stampilându-se conform îndrumatorului.

Am primit 4 (patru) exemplare,*
Ing. Vlad SIMON

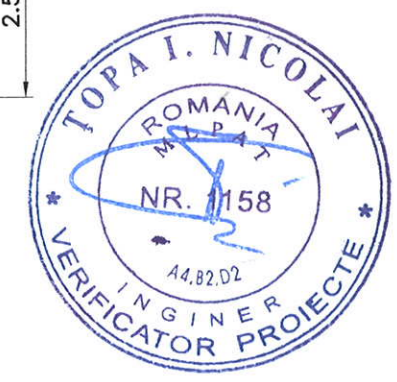
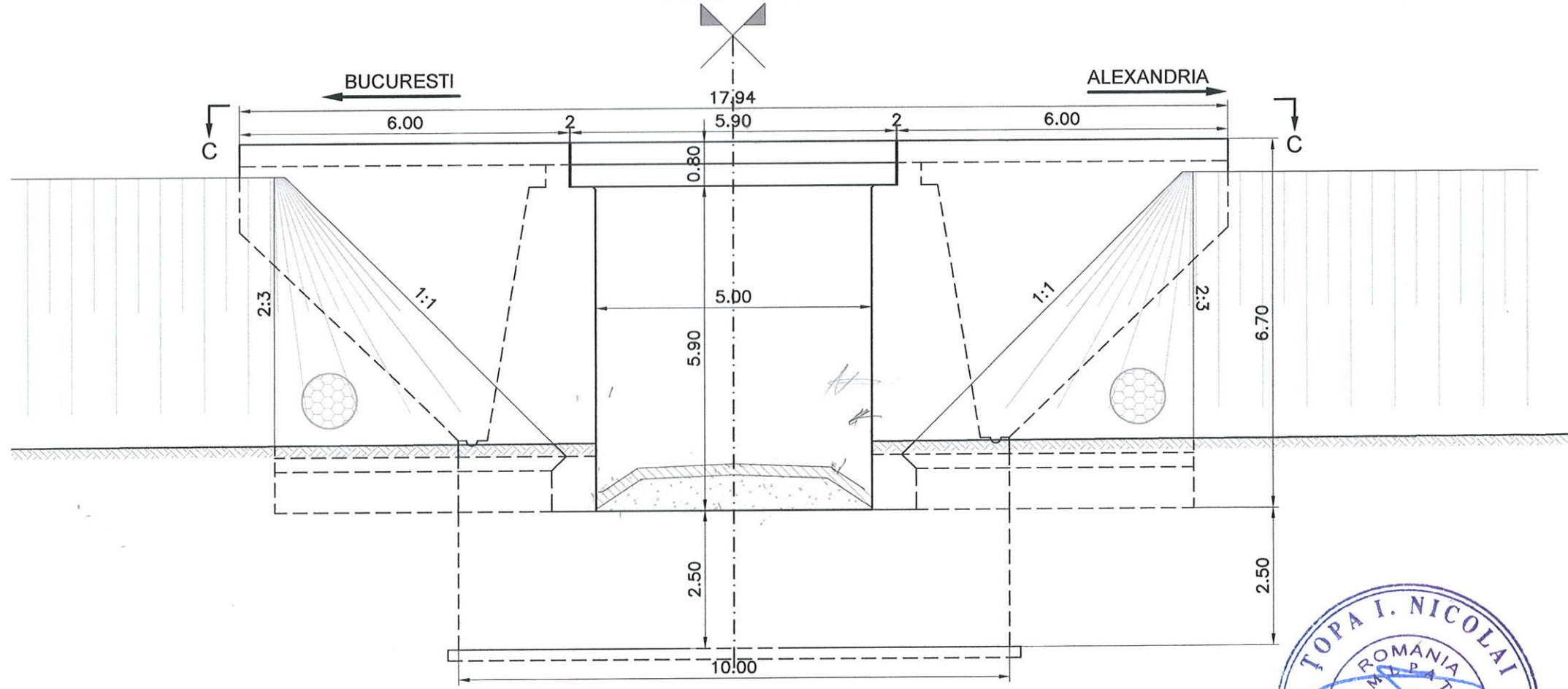


Am predat 4 (patru) exemplare,
prof. dr. ing. N. Topa





ELEVATIE A-A
Scara 1:100



Beneficiar
Compania Nationala de
Autostrazi si Drumuri
Nationale din Romania SA

Consultant
SC Septembrie Consulting SRL

Coordonator proiect:
ing. ION STANCU

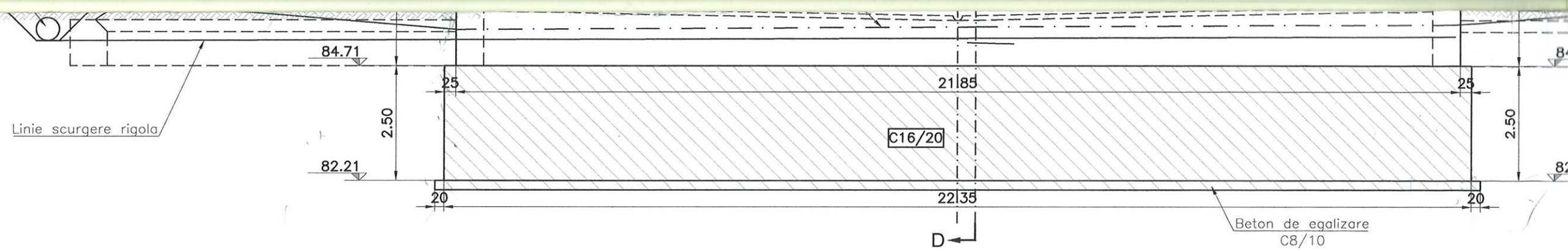
BUN PENTRU EXECUTIE

Data: 28.11.2016

Semnatura: [Signature]

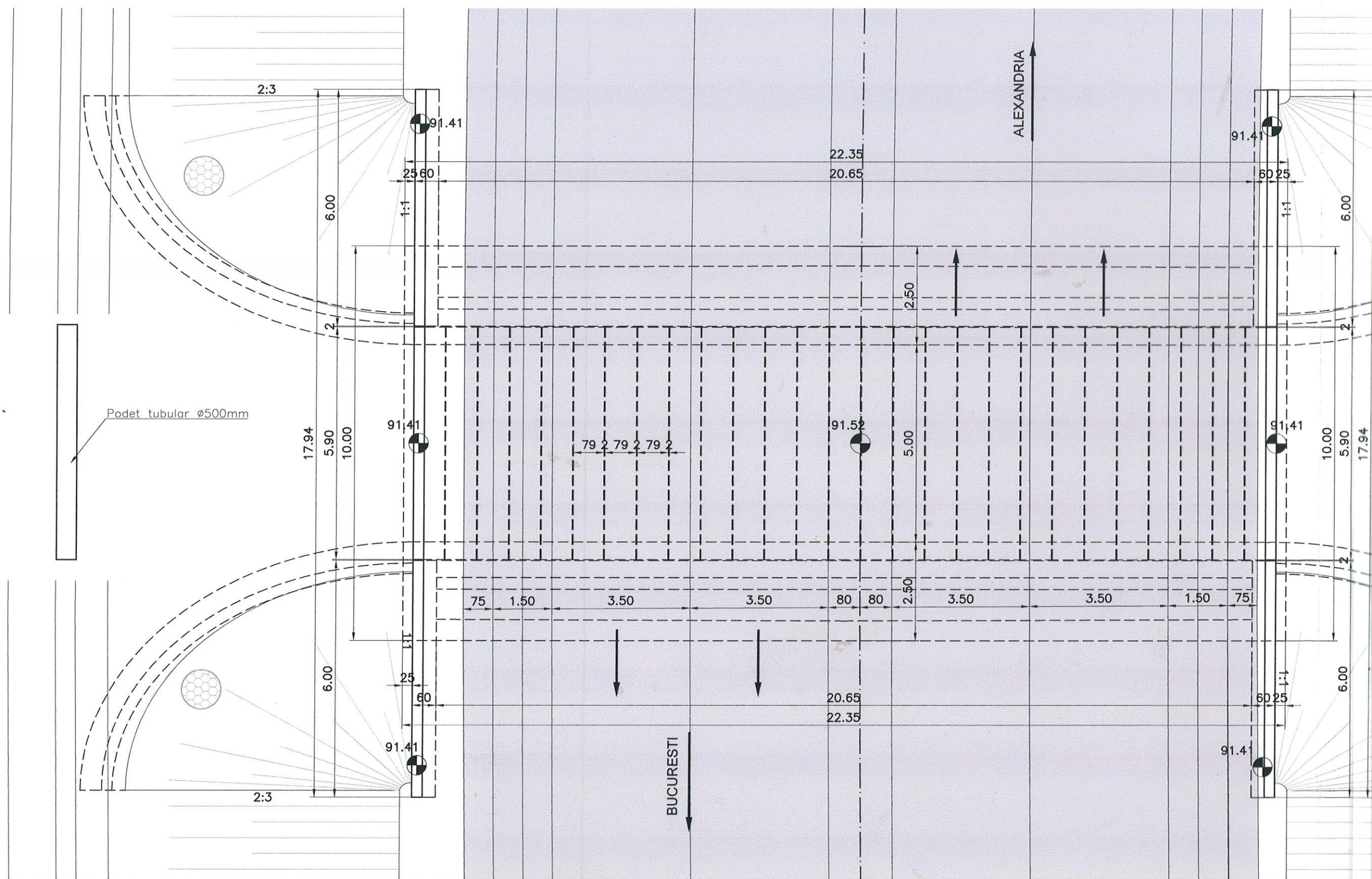
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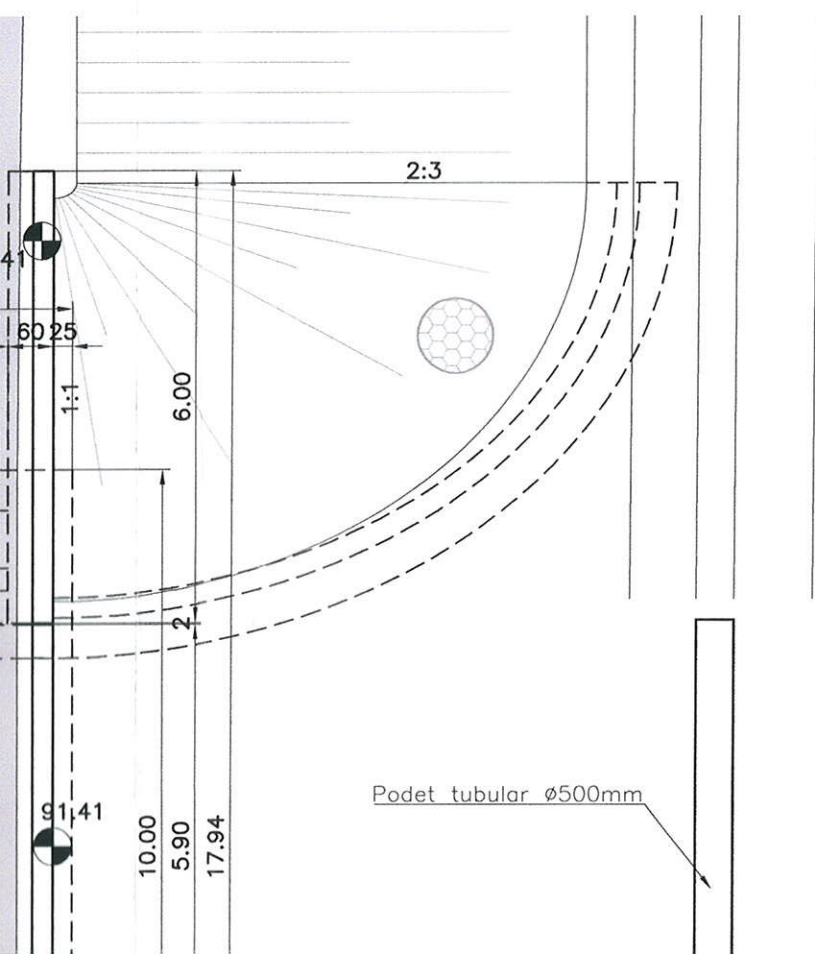
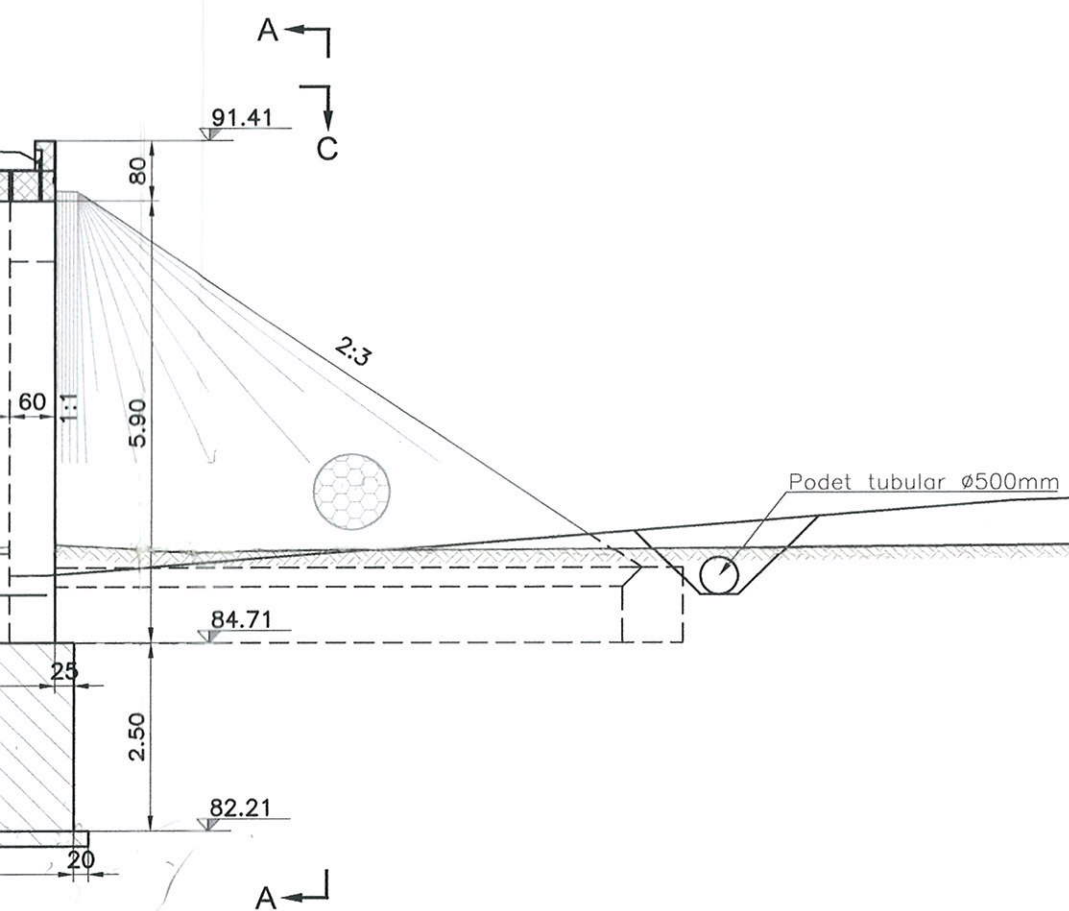
Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII	Contract nr. CN3412-0011/16	Proiect nr. 0003	Data: 2016	Faza: DE
Antreprenor	COPISA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect:
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA	[Signature]	CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
		Proiectat	Ing. Vlad SIMON	[Signature]	Scara: 1:100
		Desenat	Ing. Vlad SIMON	[Signature]	Denumire desen:
		Cod	P C T 0 0 0 1 P R P 1 D E 0 1 D G - 0 0 1 0 0		Podet km 1+235 Dispozitie generala



VEDERE PLANA C-C

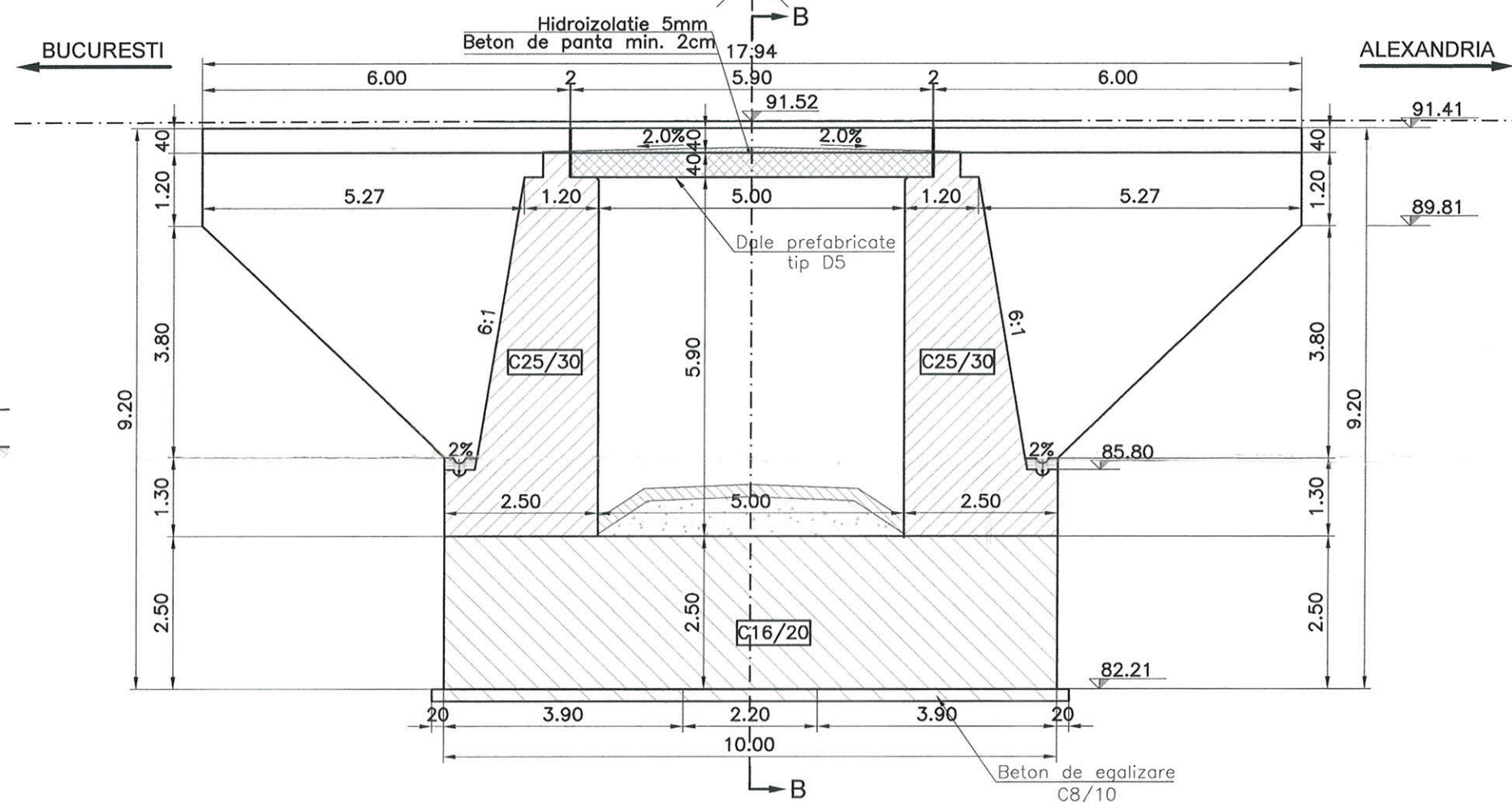
Scara 1:100





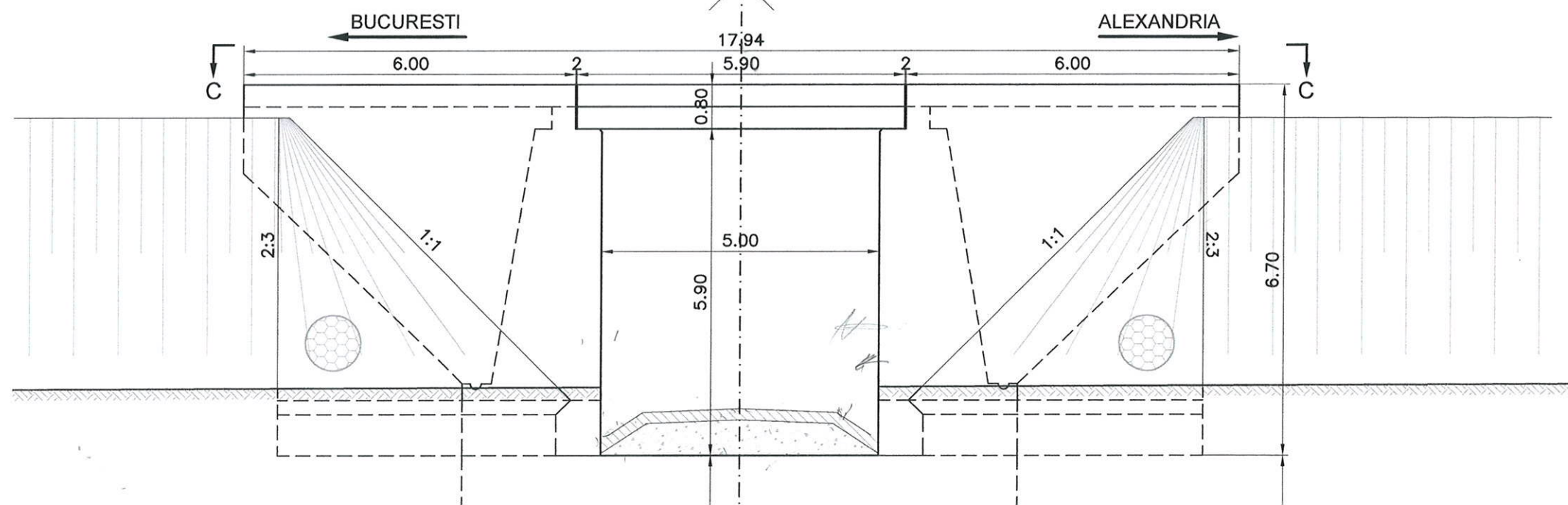
SECȚIUNE D-D

Scara 1:100



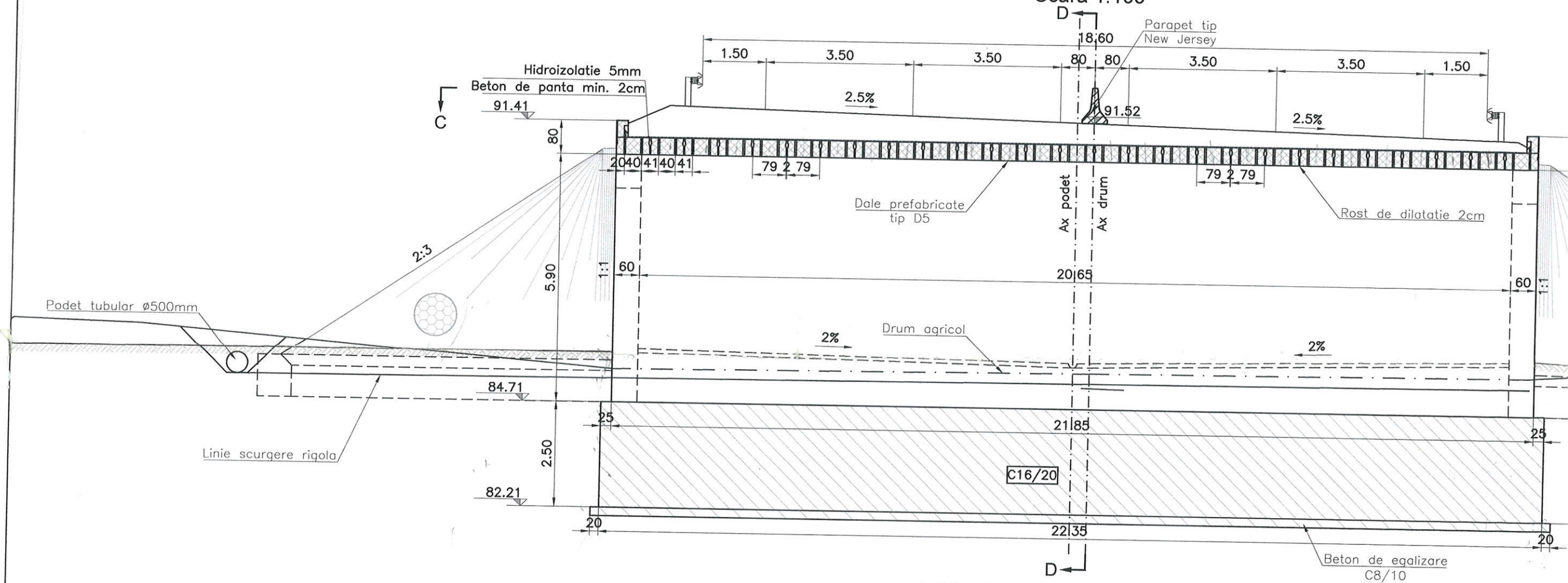
ELEVATIE A-A

Scara 1:100



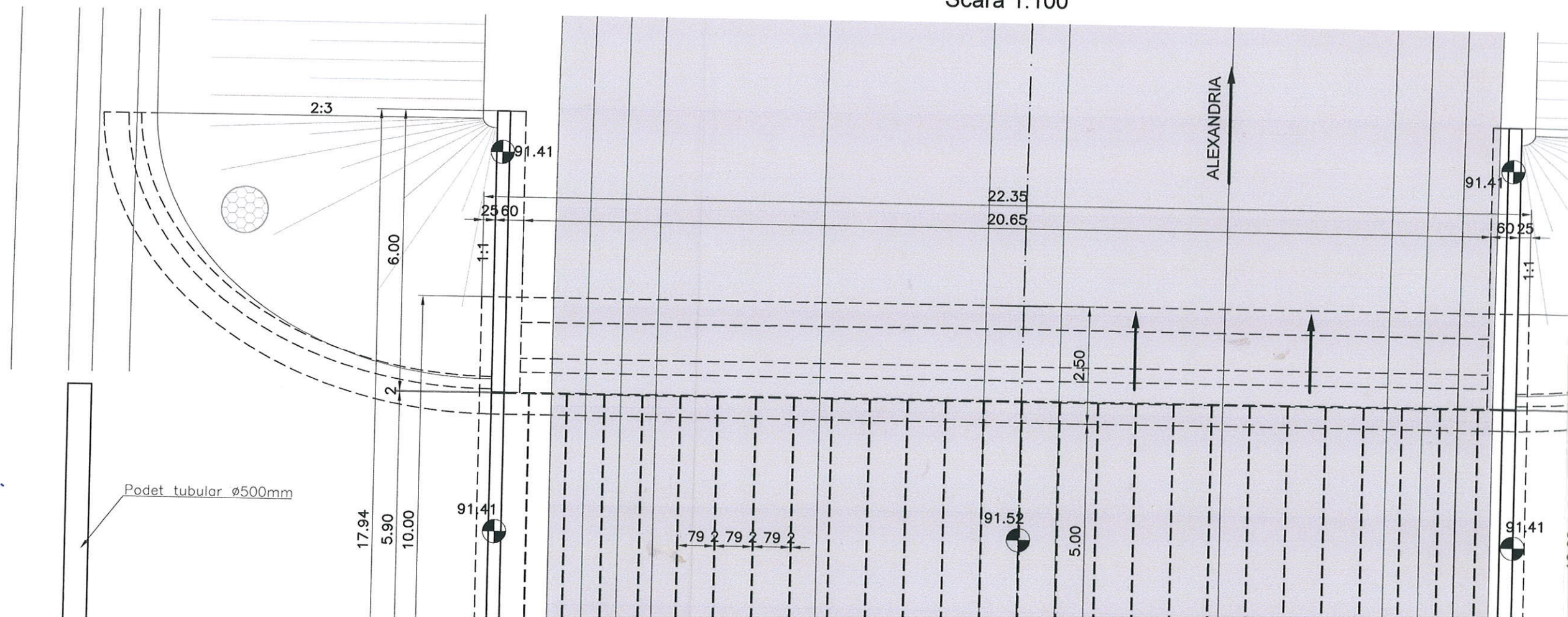
SECTIUNE B-B

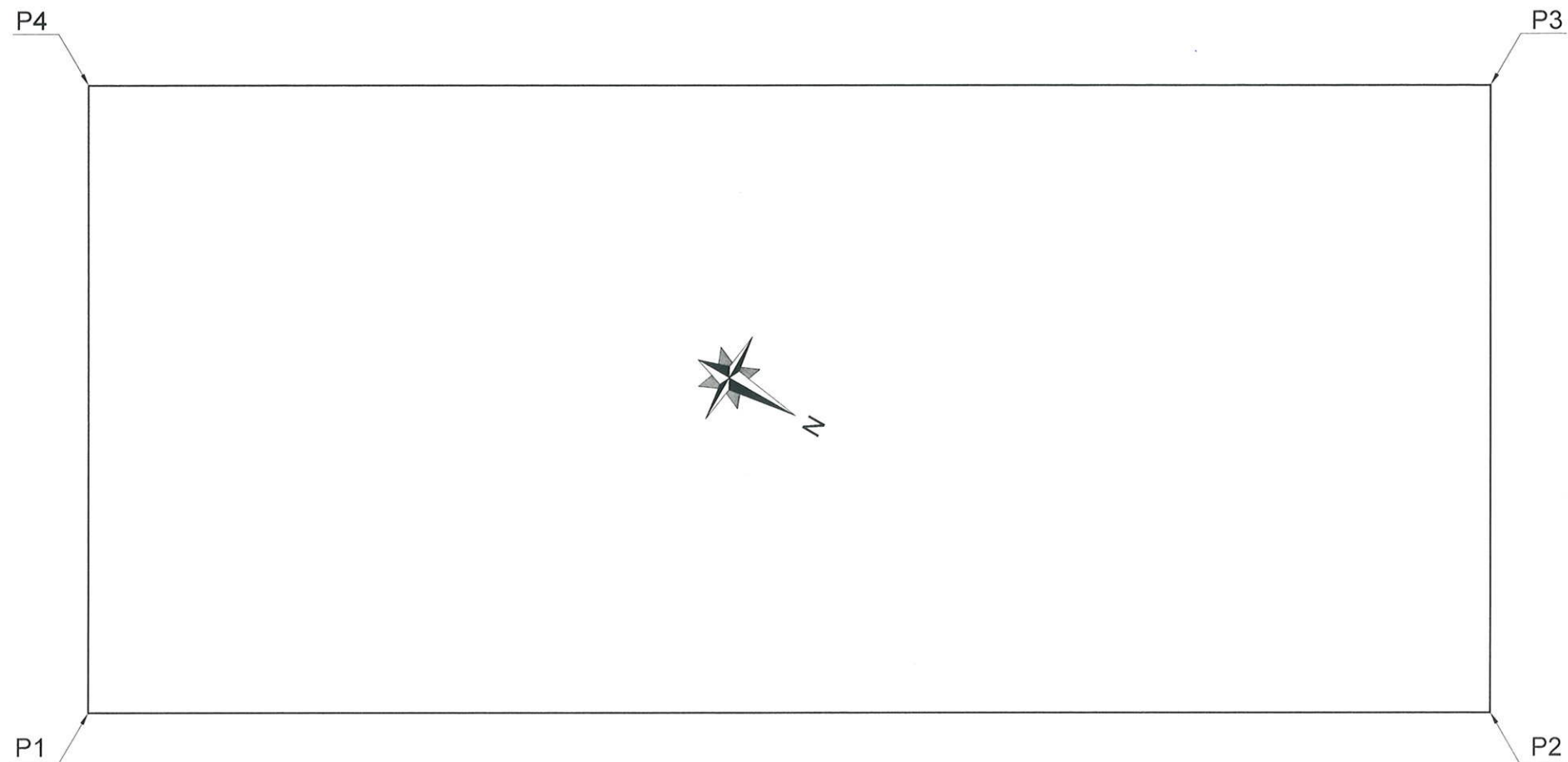
Scara 1:100



VEDERE PLANA C-C

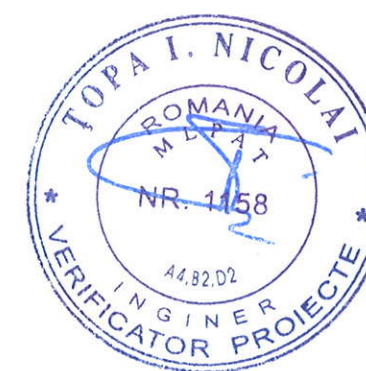
Scara 1:100





TABEL TRASARE

Punct	X(Est)	Y(Nord)	Z
P1	572771.3	312731.4	0
P2	572760.2	312750.8	0
P3	572751.5	312745.9	0
P4	572762.6	312726.5	0



Beneficiar
Compania Nationala de
Autostăzi și Drumuri
Nationale din România SA

Consultant
SC Septembrie Consulting SRL

Coordonator proiect:
ing. ION STANCU

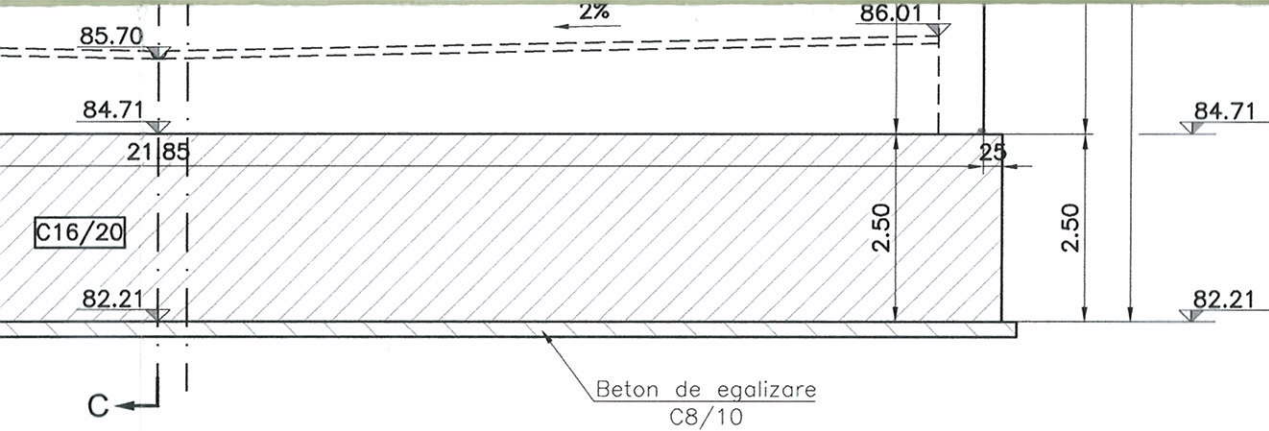
BUN PENTRU EXECUTIE

Data: 28.11.2016

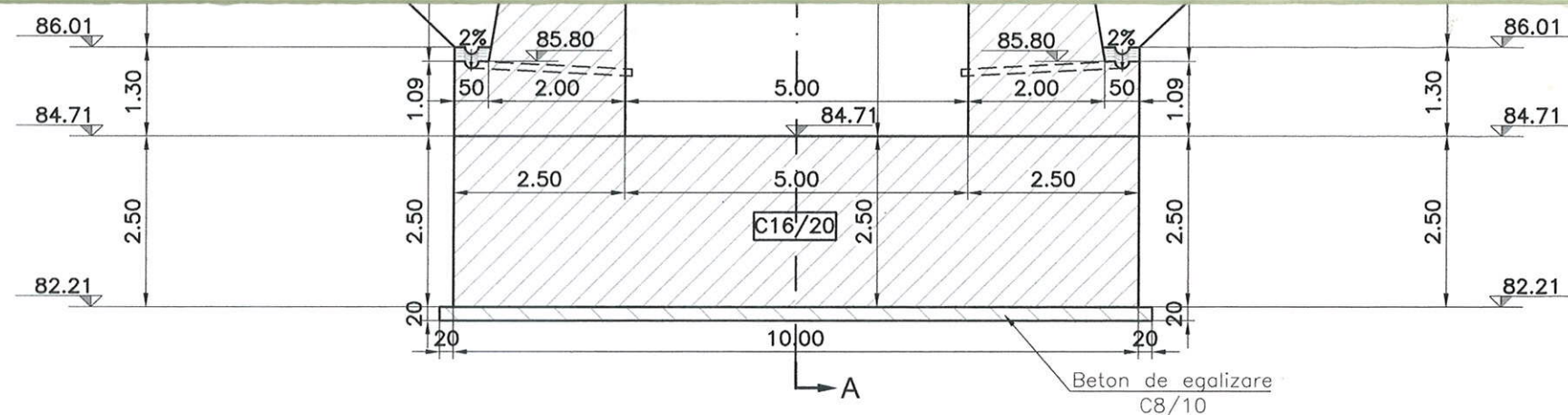
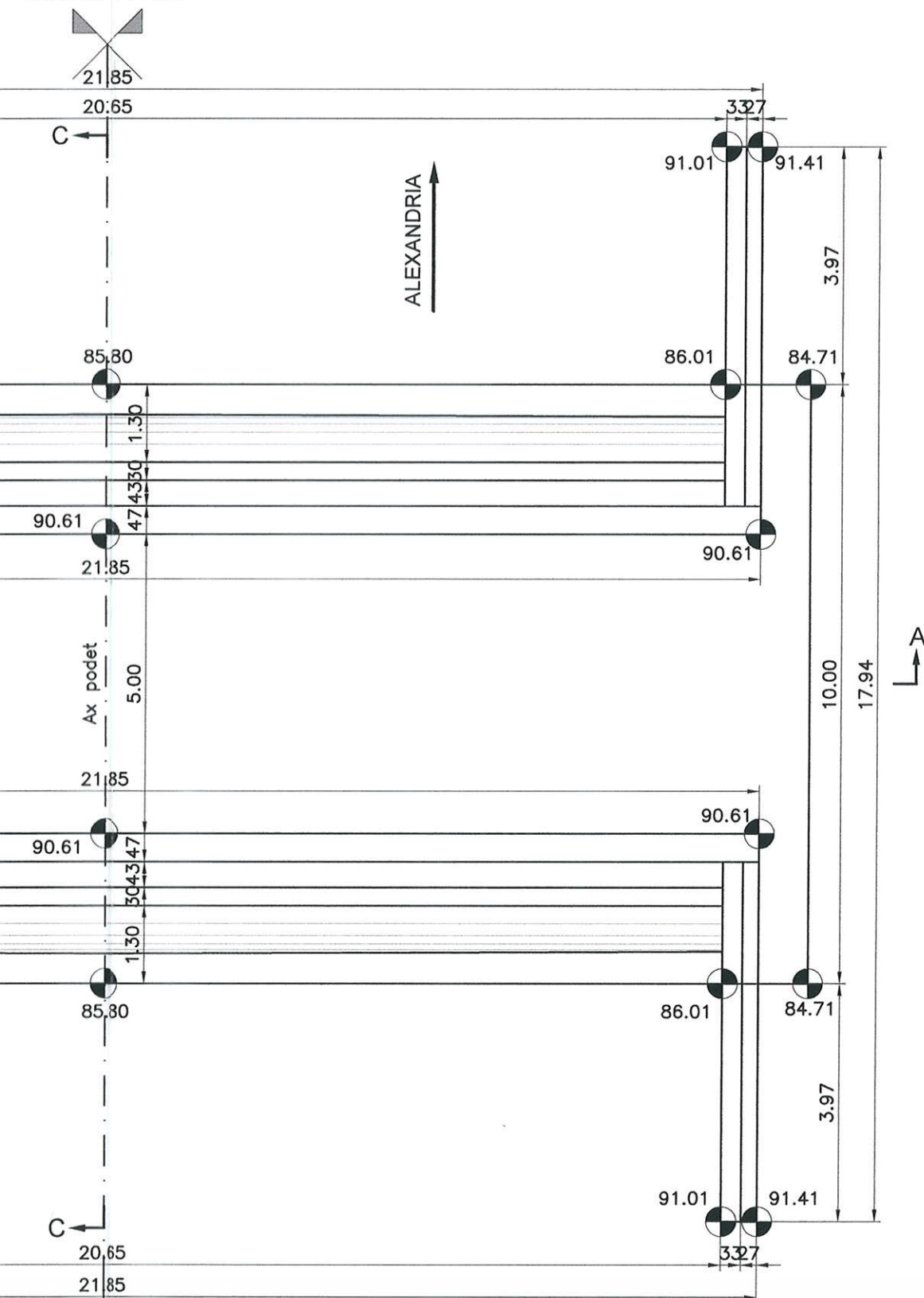
Semnatura: *[Signature]*

Nr. exemplare:

Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII	Contract nr. CN3412-0011/16	Proiect nr. 0003	Data: 2016	Faza: DE
Antreprenor	COPISA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect:
	<i>[Logo]</i>			<i>[Signature]</i>	CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA		
	<i>[Logo]</i>	Proiectat	Ing. Vlad SIMON	<i>[Signature]</i>	
		Desenat	Ing. Vlad SIMON	<i>[Signature]</i>	
		Cod	P C T 0 0 0 1 P R P 1	Scara: 1:100	Denumire desen: Podet km 1+235 Plan trasare fundatie
			D E 0 1 P T F 0 0 1 0 0		

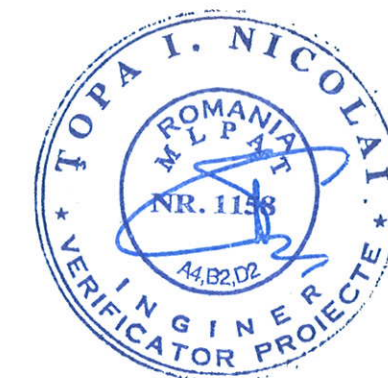
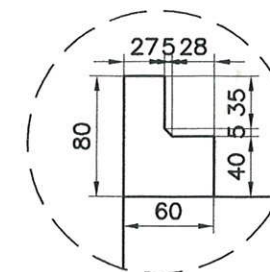


VEDERE PLANA B-B
Scara 1:100



VEDERE D-D
Scara 1:100

Detaliul "A"
Scara 1:50



CERINȚE MINIME DE ASIGURARE A DURABILITĂȚII PENTRU BETON

Element	Clasa beton	Clasa de expunere	Raport A/C max	Dozaj minim de ciment (kg/mc)	Dimensiuni e maxima agregat	Alte cerinte	Tip de ciment
Beton de egalizare	C8/10	X0	-	-	22,4	-	Conform NE 012/1-2007
Radier	C16/20	XC2	0.65	260	22,4	-	
Elevatii	C25/30	XC4+XF3+XA1	0.45	320	22.4	-	

Beneficiar
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Coordonator proiect:
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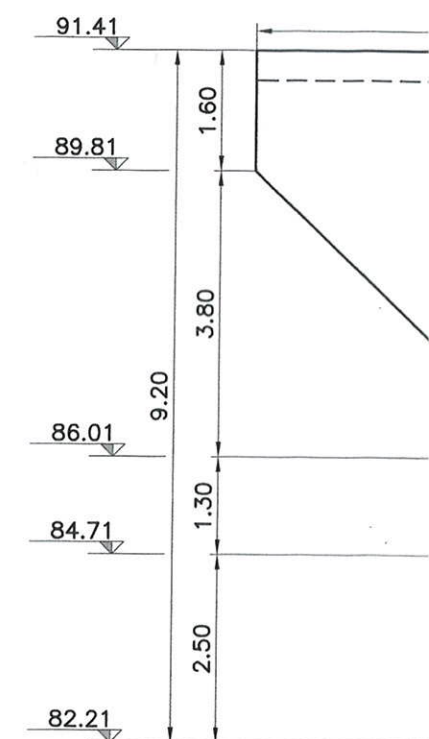
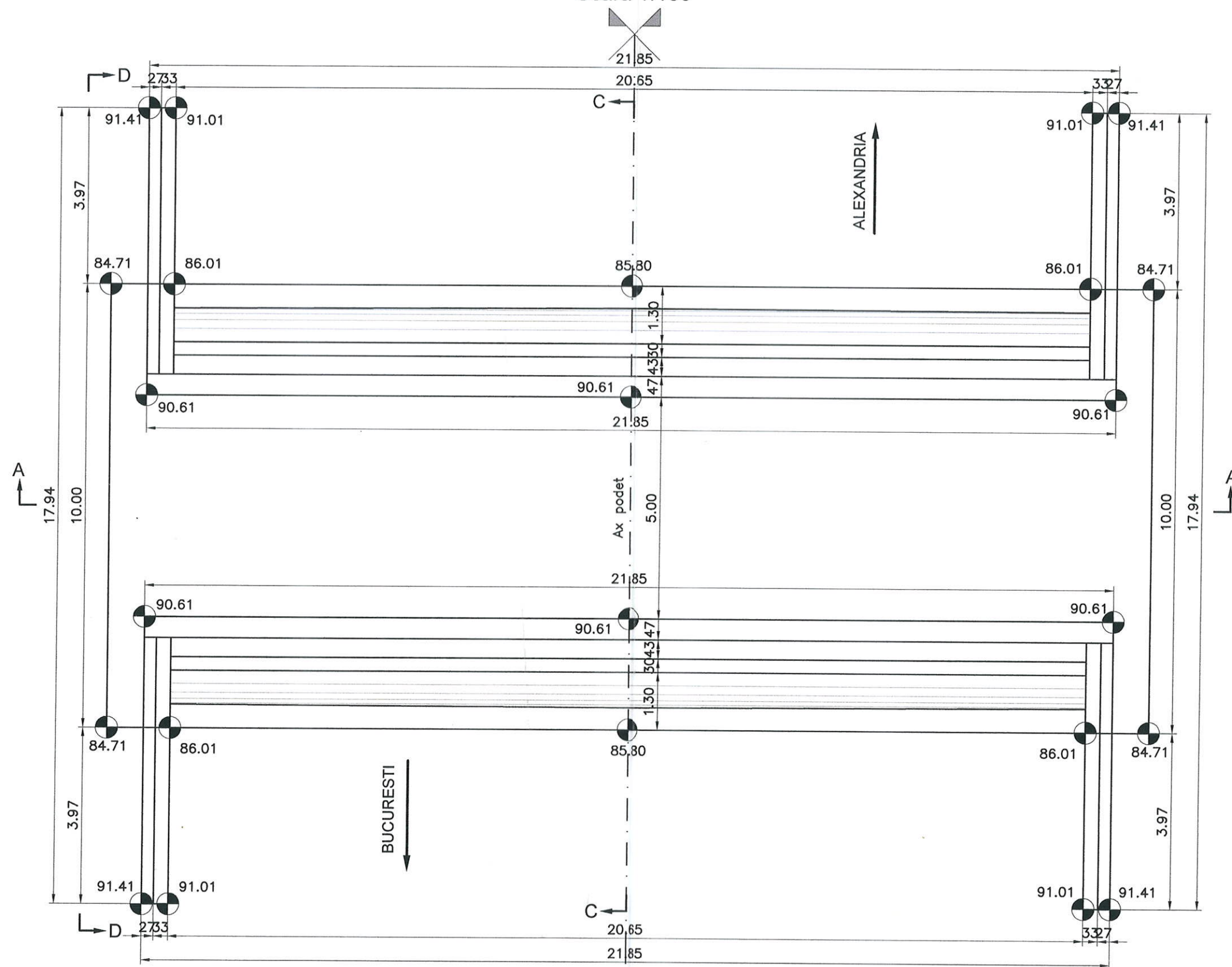
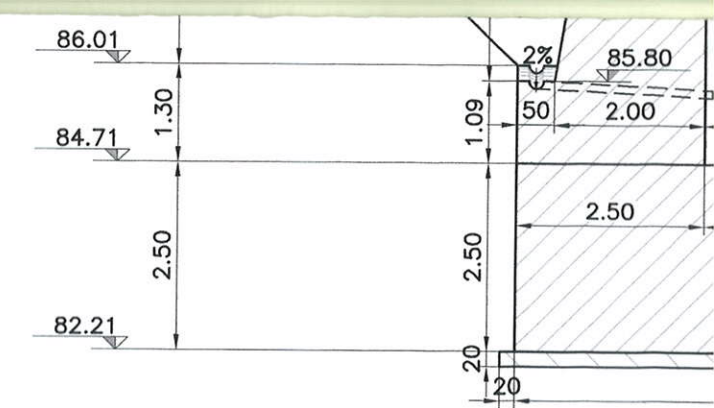
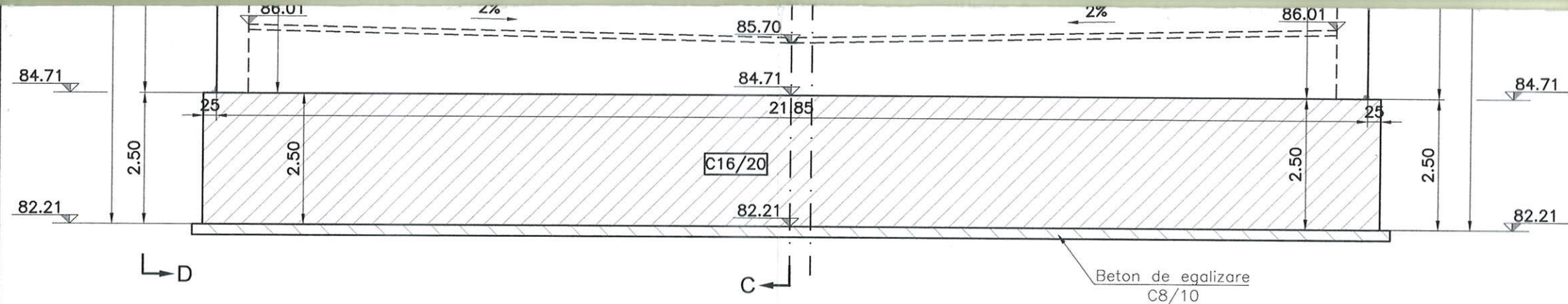
BUN PENTRU EXECUTIE

Data: 28.11.2016

Semnatura:

Nr. exemplare:

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Antreprenor	COPISA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect:
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA		CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
		Proiectat	Ing. Vlad SIMON		
		Desenat	Ing. Vlad SIMON		
		Cod	P C T 0 0 0 1 P R P 1 D E 0 1 P C C 0 0 1 0 0		



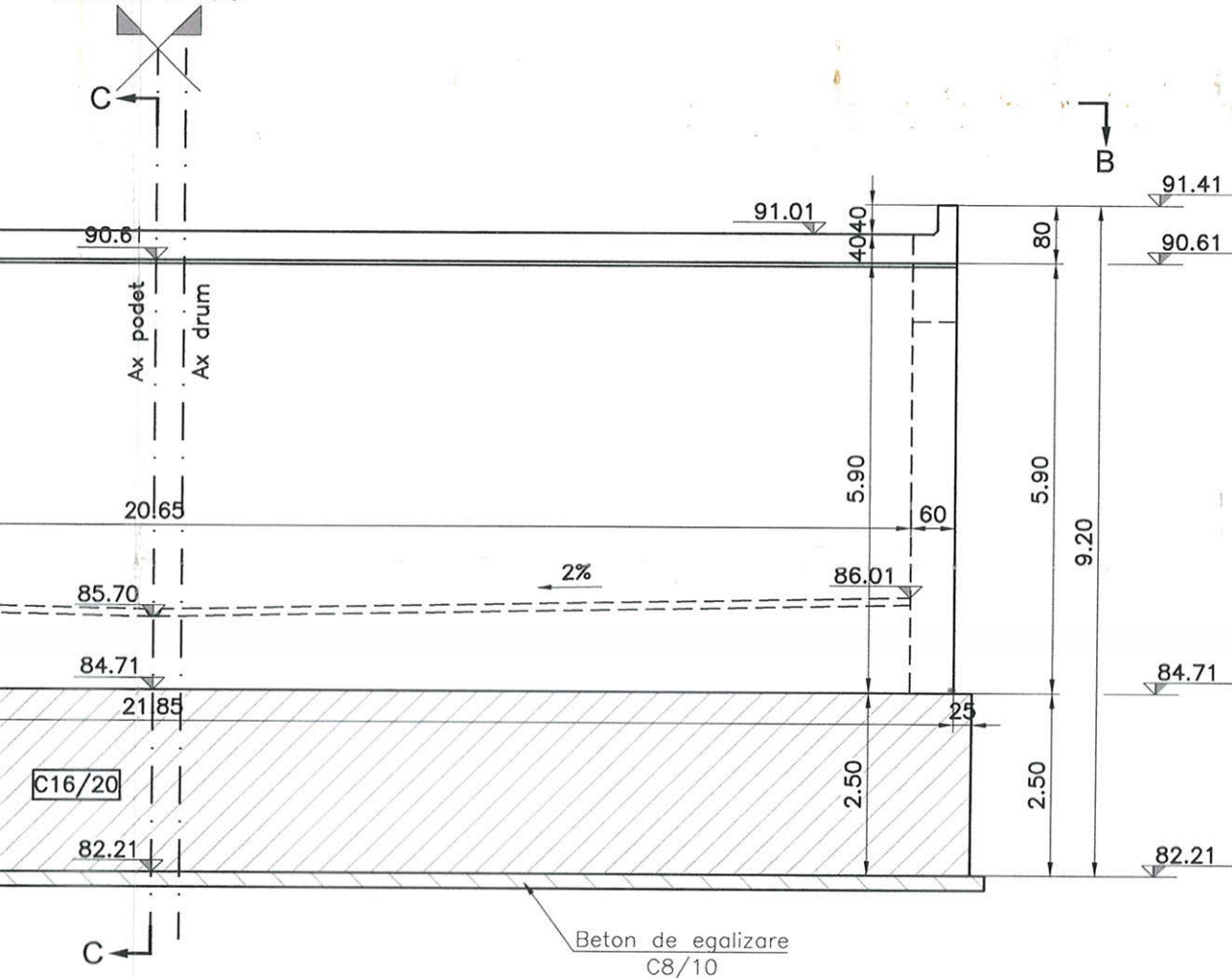
CERINȚE MINIME DE ASIGURARE

Element	Clasa beton	Clasa de expunere	Raport ma
Beton de egalizare	C8/10	X0	-
Radier	C16/20	XC2	0.6
Elevatii	C25/30	XC4+XF3+XA1	0.4

Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTR
Antreprenor	COPISA CONSTRUCTORA
Proiectant	SC CONSITRANS SRL

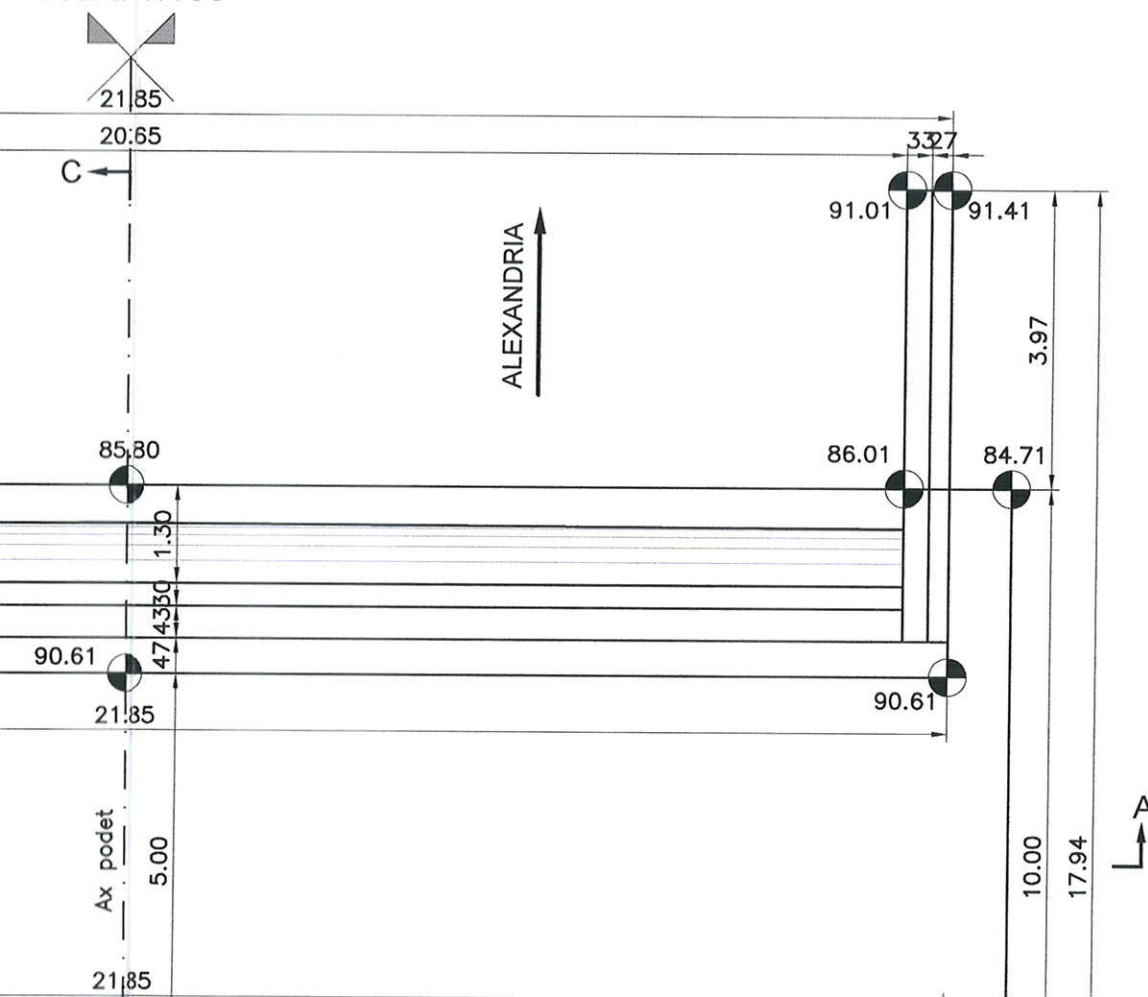
SECTIUNE A-A

Scara 1:100



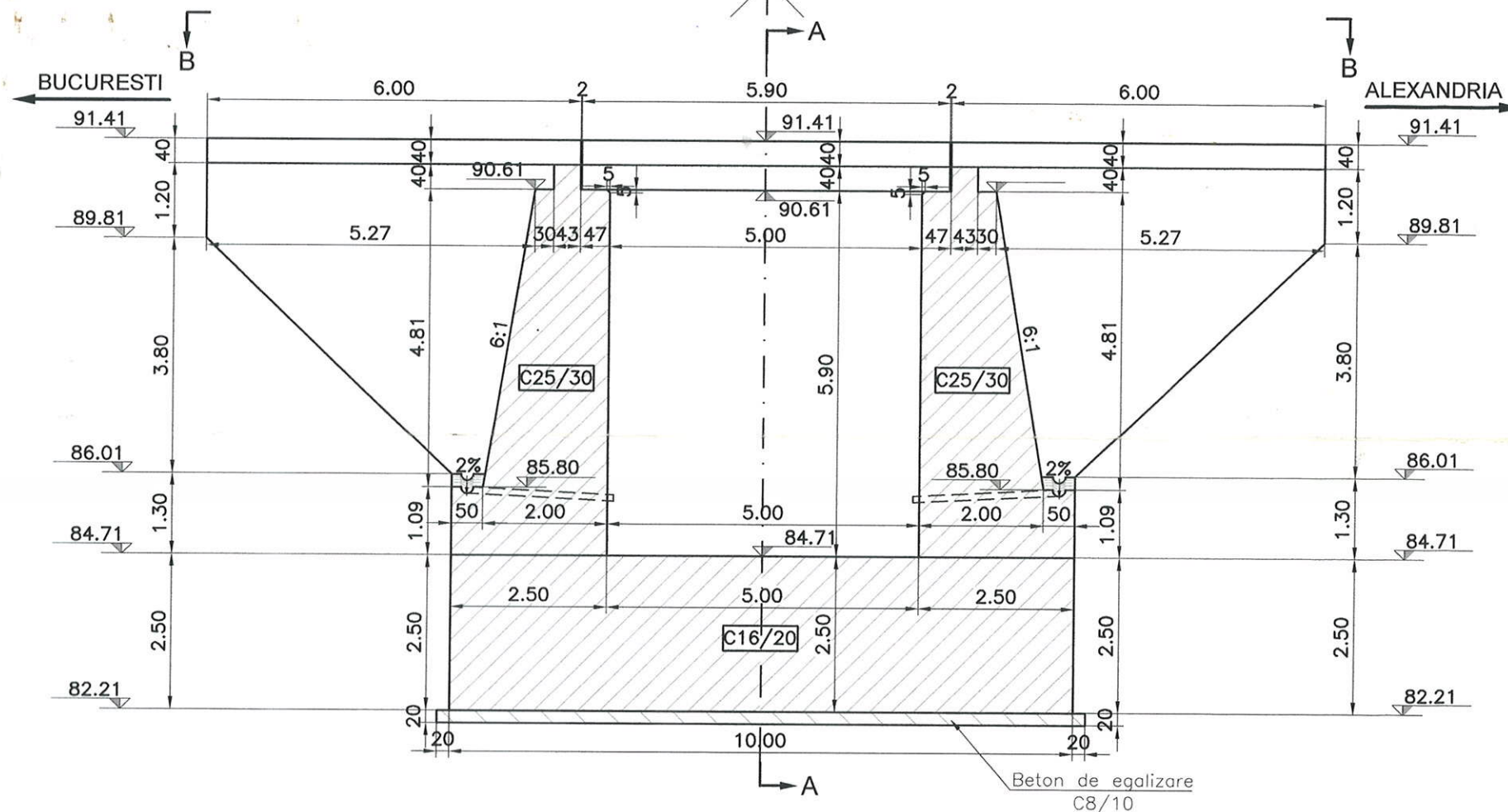
VEDERE PLANA B-B

Scara 1:100



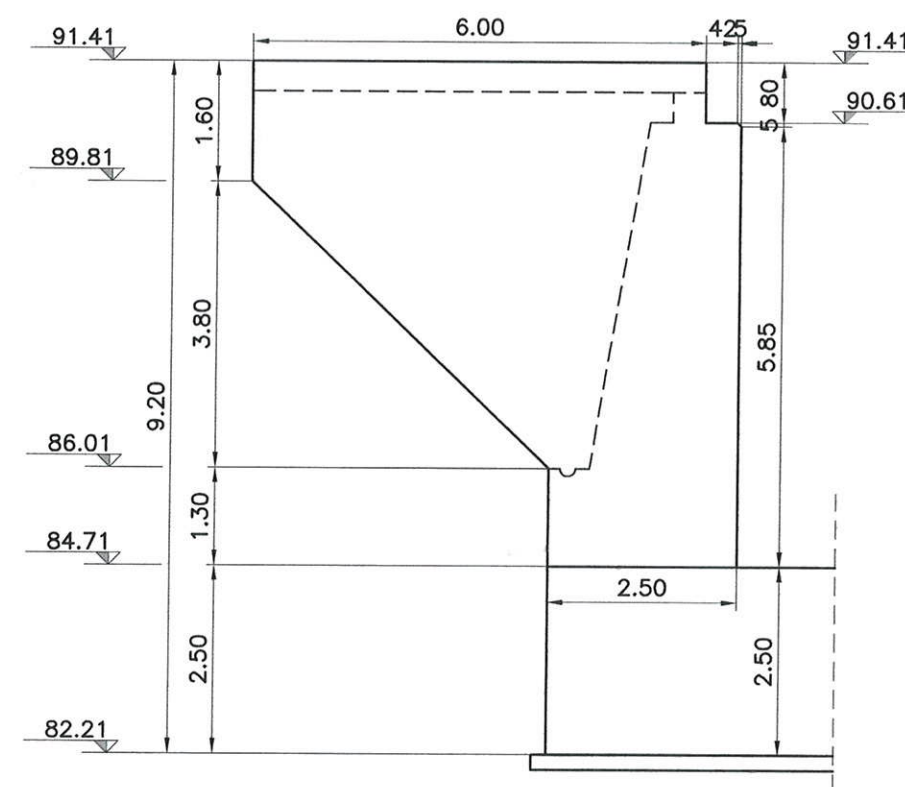
SECTIUNE C-C

Scara 1:100



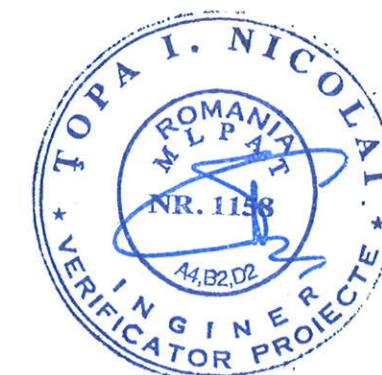
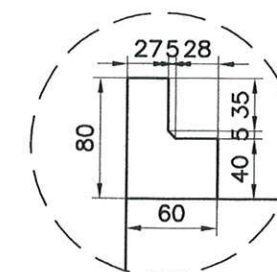
VEDERE D-D

Scara 1:100



Detaliul "A"

Scara 1:50



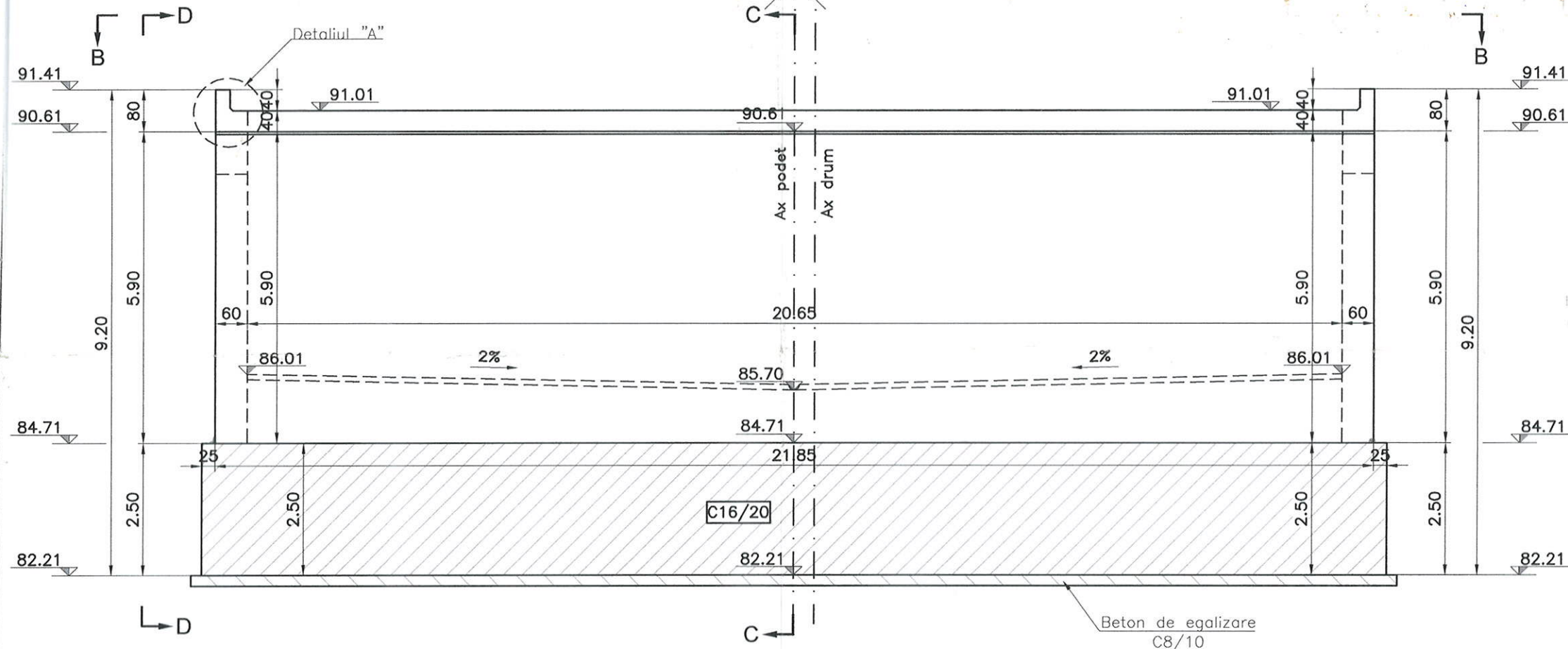
CERINTE MINIME DE ASIGURARE A DURABILITĂȚII PENTRU BETON

Element	Clasa beton	Clasa de expunere	Raport A/C max	Dozaj minim de ciment (kg/m³)	Dimensiune maximă agregat	Alte cerințe	Tip de ciment

aneficiar

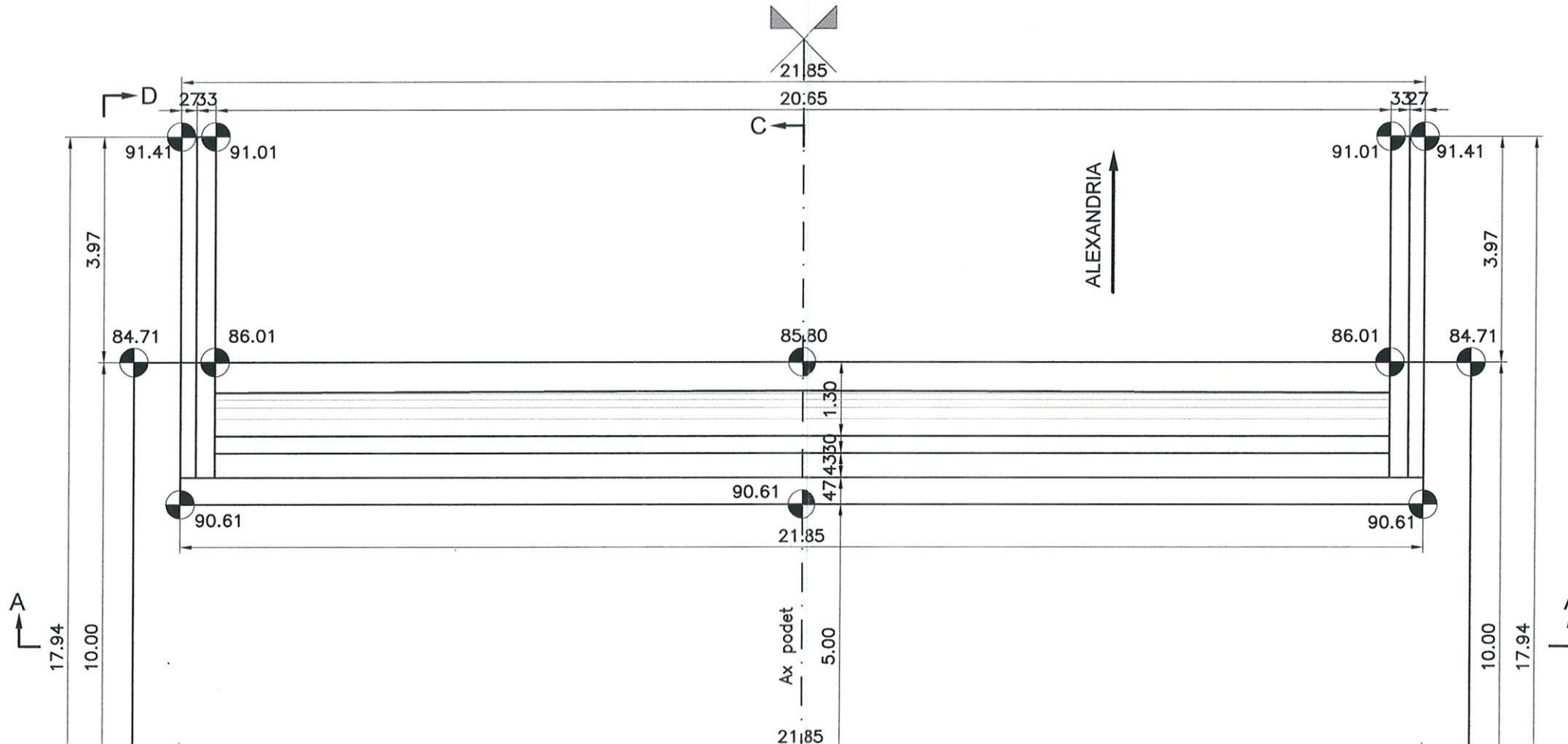
SECTIUNE A-A

Scara 1:100

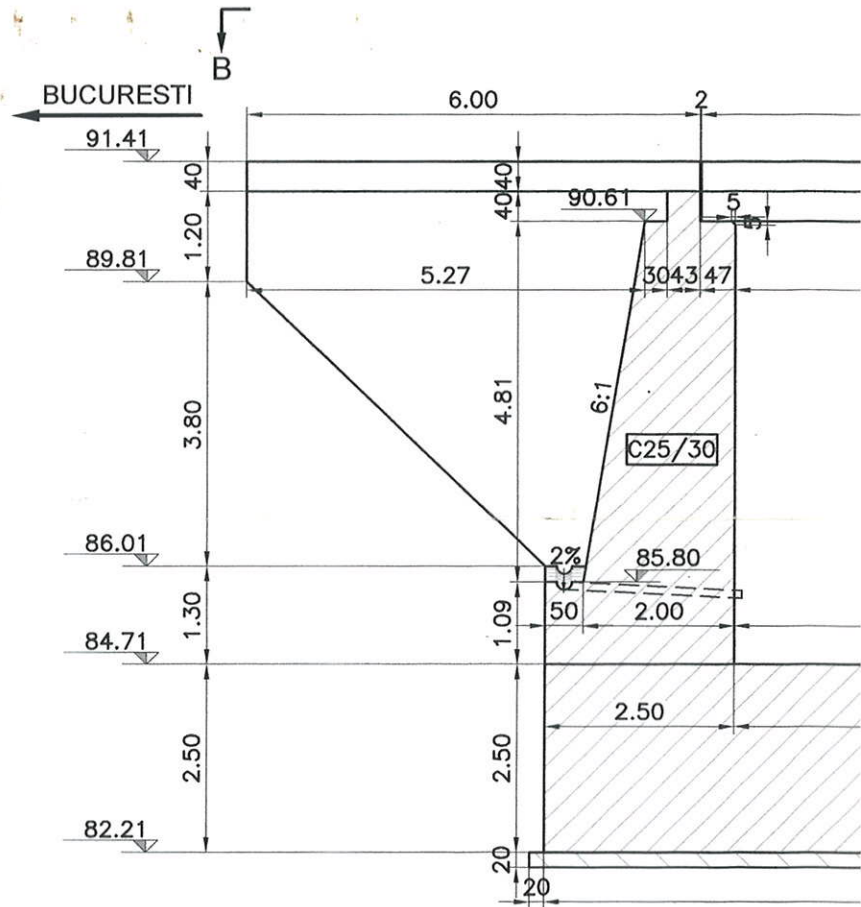


VEDERE PLANA B-B

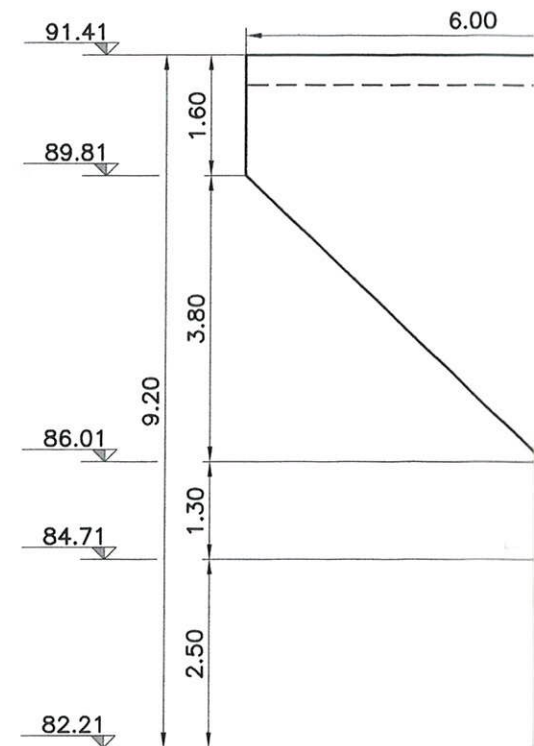
Scara 1:100



SECTIUNE B-B



VEDERE PLANA C-C



CERINTE MINIME DE ASIGURARE

Element	Clasa beton	Clasa de expunere	Raport A/C max	D
				mir
				ci



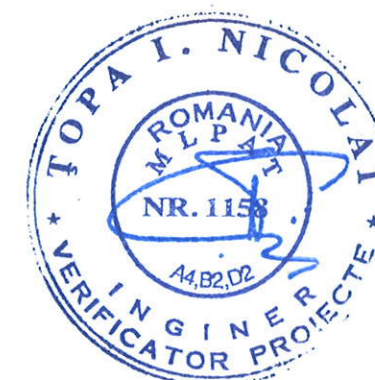
30 BST500s 246Ø12 la 20cm L=10.05
985

EXTRAS DE ARMATURA ELEVATIE

Marca	φ (mm)	n (buc.)	L (m)	n x L - Bst 500S			
				φ12	φ14	φ20	φ25
1	12	53	12.00	636.00			
2	20	103	6.98			718.94	
2'	14	103	3.78		389.34		
3	20	110	4.76			523.60	
4	25	52	6.07				315.64
5	20	103	2.31			237.93	
6	12	67	3.59	240.53			
7	12	124	4.59	569.16			
8	12	57	5.69	324.33			
9	20	12	8.26			99.12	
10	12	53	10.79	571.87			
11	12	60	0.89	53.40			
12	12	6	7.95	47.70			
13	12	6	7.55	45.30			
14	12	14	6.08	85.12			
15	12	10	6.55	65.50			
16	12	36	4.58	164.88			
17	12	16	2.59	41.44			
18	12	10	6.48	64.80			
19	12	10	7.48	74.80			
20	12	40	4.89	195.60			
21	25	48	4.88				234.24
22	12	16	5.55	88.80			
23	12	26	12.00	312.00			
24	12	40	4.00	160.00			
25	25	6	6.08				36.48
26	12	108	1.70	183.60			
27	12	52	0.69	35.88			
28	14	103	3.78		389.34		
GREUTATE PE METRU (kg/m)				0.888	1.208	2.466	3.853
GREUTATE PE DIAMETRU (kg)				3516.37	940.97	3895.51	2259.46
GREUTATE TOTALA TIP OTEL (kg)				10613.00			
GREUTATE TOTALA (kg)				10613.00			
GREUTATE TOTALA (2 bucati) (kg)				21226.00			

EXTRAS DE ARMATURA RADIER

Marca	φ (mm)	n (buc.)	L (m)	L-Bst 500
29	12	98	2.64	258.72
30	12	246	10.05	2472.30
31	12	122	12.00	1464.00
GREUTATE PE METRU (kg/m)				0.888
GREUTATE PE DIAMETRU (kg)				3724.40
GREUTATE TOTALA TIP OTEL (kg)				3725.00
GREUTATE TOTALA (kg)				3725.00
GREUTATE TOTALA (2 bucati) (kg)				7450.00



Beneficiar
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Coordonator proiect:
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BUN PENTRU EXECUTIE

Data: 28.11.2016

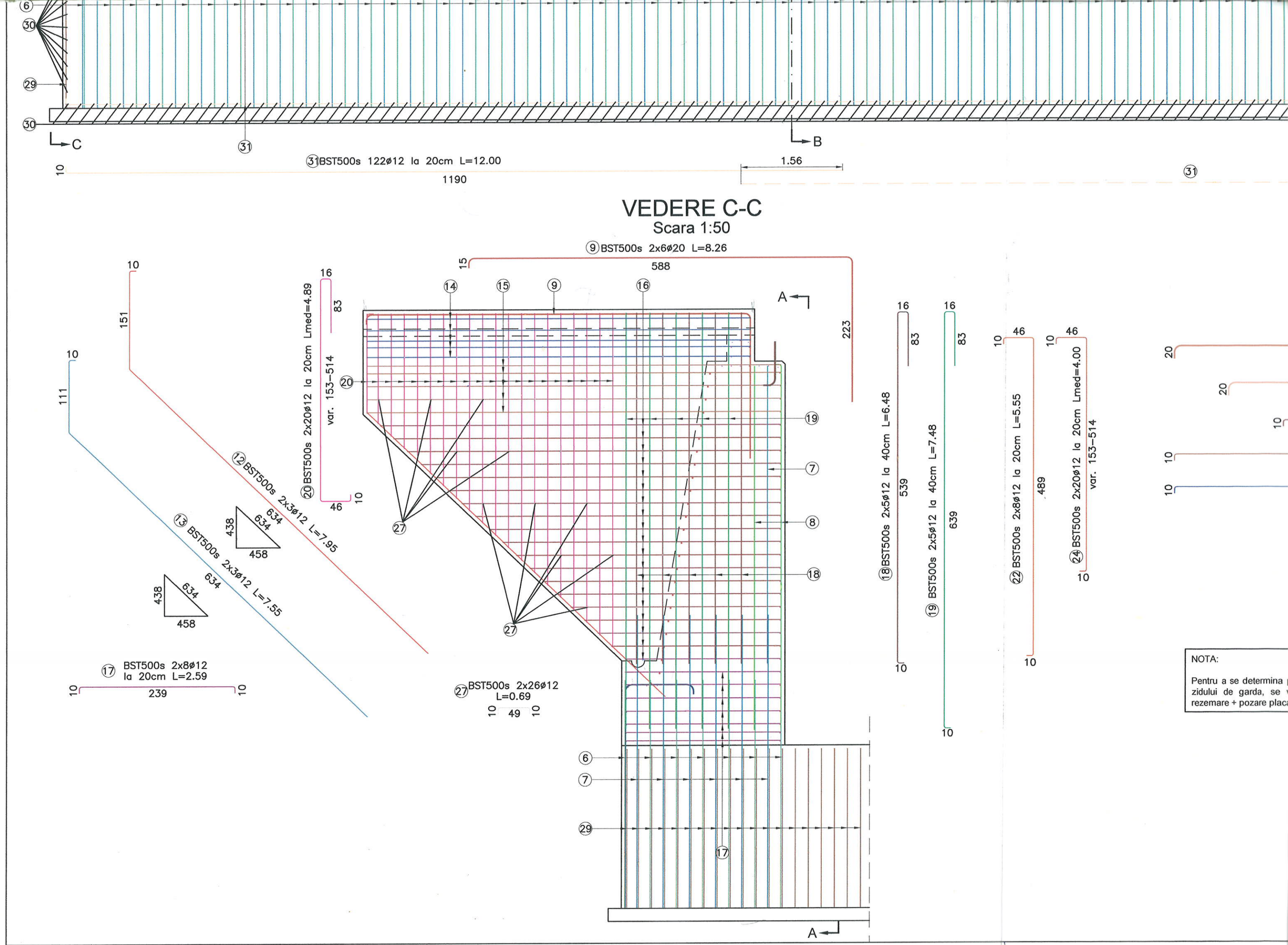
Semnatura:

Nr. exemplare:

NOTA:

Pentru a se determina pozitiile barelor marca 28, dispuse in partea din spate a zidului de garda, se va consulta plansa "Plan cofraj si armare grinda de rezemare + pozare placa de racordare".

Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII	Contract nr. CN3412-0011/16	Proiect nr. 0003	Data: 2016	Faza: DE
Antreprenor	COPISA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect:
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA		CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
		Proiectat	Ing. Vlad SIMON		Scara: 1:50
		Desenat	Ing. Vlad SIMON		Denumire desen: Podet km 1+235
		Cod	P C T O O O 1 P R P 1 D E 0 1 P A C O O 1 O O		PLAN ARMARE CULEE



NOTA:

Pentru a se determina
zidului de garda, se
rezemare + pozare plac

Scara 1:50



Marca	ϕ (mm)	n (buc.)	L (m)	nxL-BST 500S			
				$\phi 12$	$\phi 14$	$\phi 20$	$\phi 25$
1	12	53	12.00	636.00			
2	20	103	6.98			718.94	

VEDERE A-A

Scara 1:50

④ BST500s 2x26Ø25 la 20cm L=6.07

100

587

②③ BST500s 26Ø12 la 20cm L=12.00

100

1200

① BST500s 53Ø12 la 40cm L=12.00

1190

⑩ BST500s 53Ø12 la 40cm L=10.69

1059

Marcile 1 si 10 se vor
suprapune alternativ.

75

B

①

⑩

VEDERE C-C

Scara 1:50

③① BST500s 122Ø12 la 20cm L=12.00

1190

1.56

③①

C

11

14

28

9

5

15

22

26

16

8

26

17

30

6

30

29

30

C

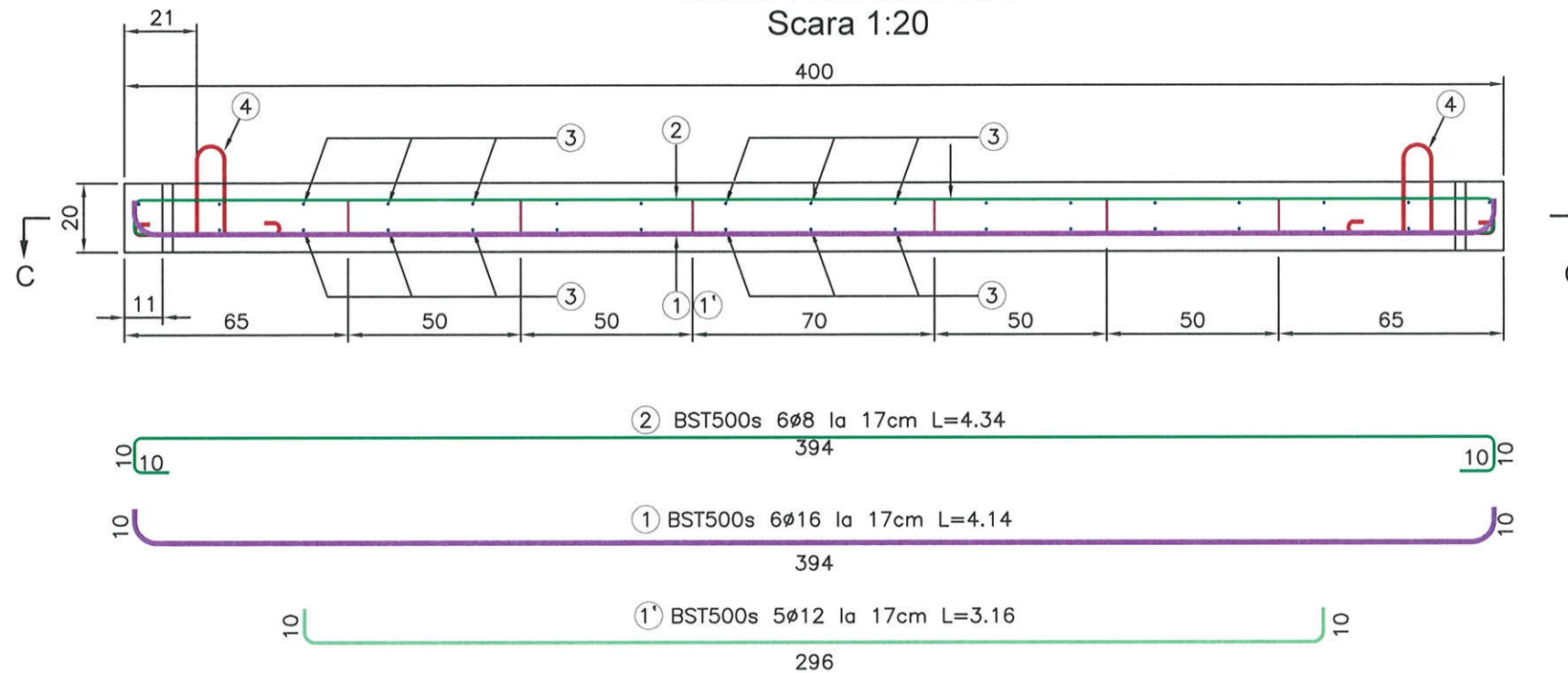
10

31

10

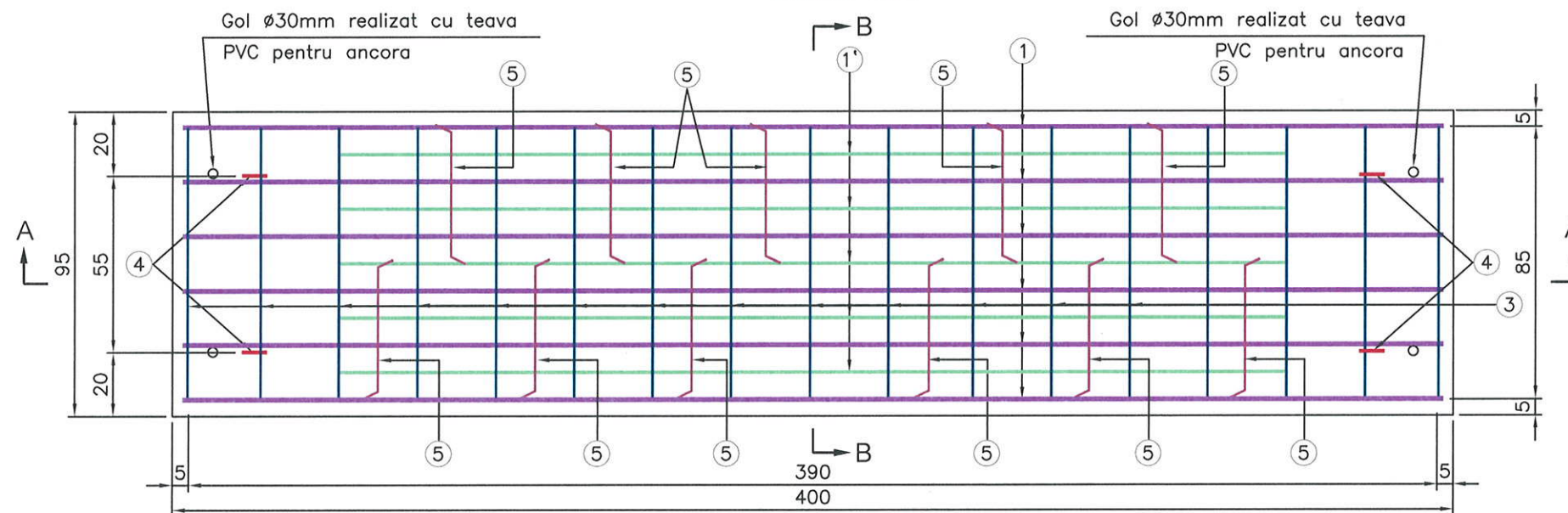
SECTIUNE A-A

Scara 1:20



SECTIUNE C-C

Scara 1:20



EXTRAS DE ARMATURA

Marca	φ (mm)	n (buc.)	L (m)	nxL-BSt 500S			
				φ8	φ10	φ12	φ16
1	16	6	4.14				24.84
1'	12	5	3.16			15.80	
2	8	6	4.34	26.04			
3	8	34	1.02	34.68			
4	10	4	1.00		4.00		
5	8	11	0.65	7.15			
GREUTATE PE METRU (kg/m)				0.395	0.617	0.888	1.578
GREUTATE PE DIAMETRU (kg)				26.78	2.47	14.03	39.21
GREUTATE TOTALA/TIP OTEL (kg)				83.00			
GREUTATE TOTALA (kg)				83.00			
GREUTATE TOTALA (42 bucati) (kg)				3486.00			

Beneficiar
Compania Nationala de
Autostrazi si Drumuri
Nationale din Romania SA

Consultant
SC Septembrie Consulting SRL

Coordonator proiect:
ing. ION STANCU

BUN PENTRU EXECUTIE

Data: 28.11.2016

Semnatura:

Nr. exemplare:

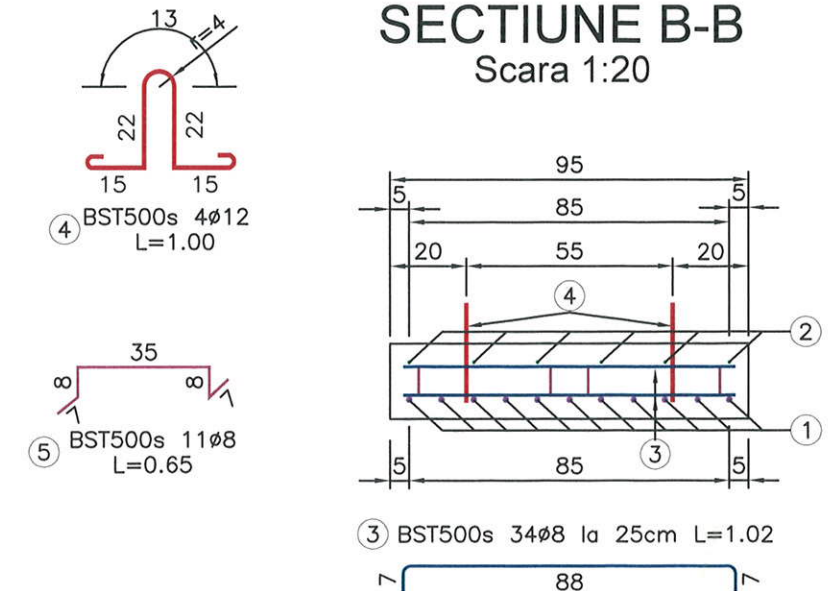
CERINTE MINIME DE ASIGURARE A DURABILITĂȚII PENTRU BETON

Element	Clasa beton	Clasa de expunere	Raport A/C max	Dozaj minim de ciment (kg/mc)	Dimensiuni maxime agregat	Alte cerinte	Tip de ciment
Placi de racordare	C20/25	XC3	0.50	280	22,4	-	Conform NE 012/1-2007

Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII	Contract nr. CN3412-0011/16	Proiect nr. 0003	Data: 2016	Faza: DE
Antreprenor	COPIA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect: CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA		Scara: 1:20
		Proiectat	Ing. Vlad SIMON		Denumire desen: Podet km 1+235
		Desenat	Ing. Vlad SIMON		PLAN COFRAJ SI ARMARE
		Cod	P C T 0 0 0 1	P R P 1	PLACA DE RACORDARE

SECTIUNE B-B

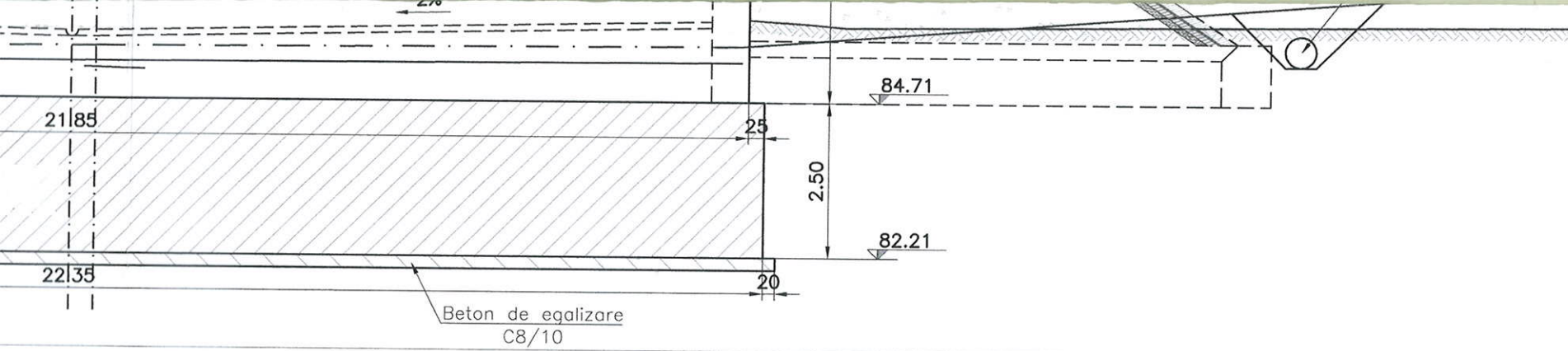
Scara 1:20



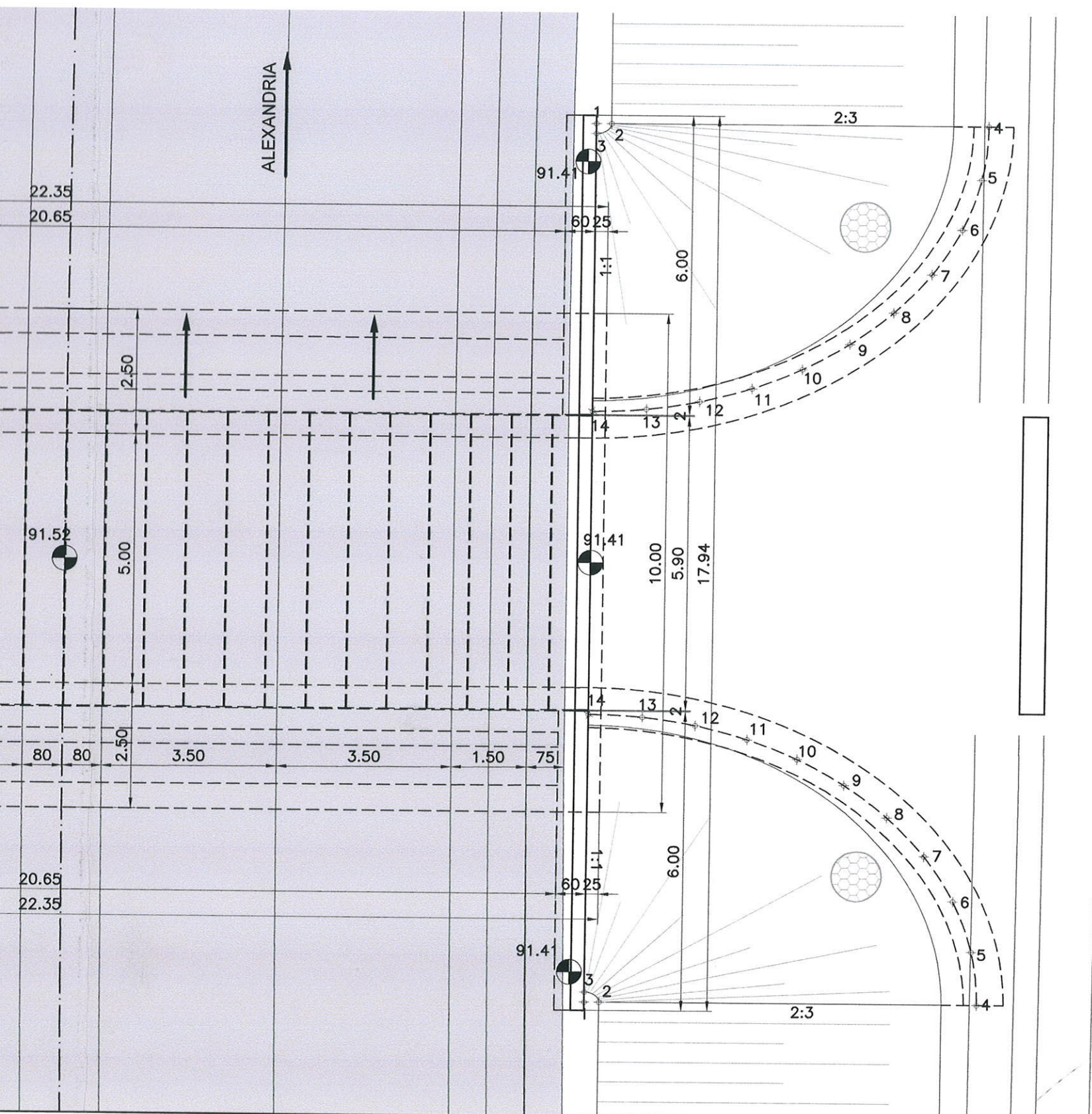
NOTA

- Pe spatele culeii si pe placile de racordare se va aplica o hidroizolatie din doua straturi de bitum fierizat STAS 5088-75.
- Placile se executa din beton C20/25 armat cu Bst500S si OB 37. Armarea cu otel de alta calitate se poate adopta cu conditia asigurarii sectiunii echivalente de armatura.
- La realizarea placilor de racordare se vor respecta urmatoarele tolerante: -la lungime: ±10mm; -la latime: ±5mm; -la grosime: ±3mm; -la planeitate: ±6mm.
- Placile prefabricate vor fi insotite de certificate de calitate si vor fi marcate cu vopsea mentionandu-se tipul placii (P4).
- Grosimea stratului de acoperire cu beton va fi de 5cm.





E PLANA A-A
cara 1:100



TABEL TRASARE SFERT DE CON
CULEE BUCURESTI STÂNGA

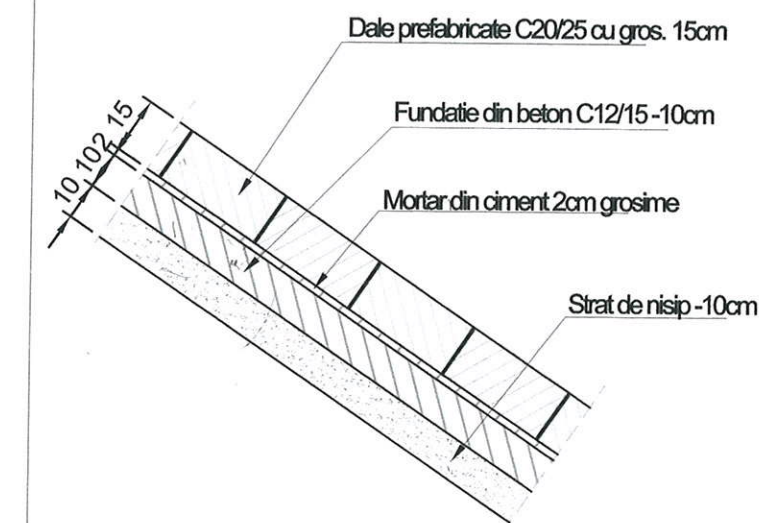
PUNCT	X	Y
1	572774,45	312733,52
2	572774,60	312733,26
3	572774,28	312733,42
4	572778,34	312726,71
5	572777,35	312726,29
6	572776,29	312726,12
7	572775,22	312726,18
8	572774,17	312726,45
9	572773,19	312726,88
10	572772,28	312727,45
11	572771,44	312728,13
12	572770,69	312728,90
13	572770,02	312729,75
14	572769,44	312730,66

TABEL TRASARE SFERT DE CON
CULEE BUCURESTI DREAPTA

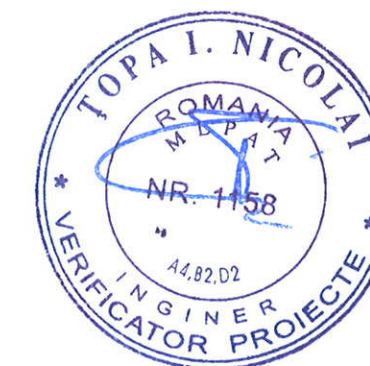
PUNCT	X	Y
1	572763,61	312752,49
2	572763,46	312752,75
3	572763,43	312752,39
4	572759,72	312759,30
5	572758,85	312758,66
6	572758,17	312757,83
7	572757,68	312756,87
8	572757,38	312755,84
9	572757,25	312754,77
10	572757,28	312753,69
11	572757,44	312752,63
12	572757,72	312751,59
13	572758,11	312750,59
14	572758,60	312749,63

DETALIUL „A”

Scara 1:20



Beneficiar
Compania Nationala de
Autostrazi si Drumuri
Nationale din Romania SA
Consultant
SC Septembrie Consulting SRL
Coordonator proiect:
ing. ION STANCU
BUN PENTRU EXECUTIE
Data: 28.11.2016
Semnatura:
Nr. exemplare:



Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII	Contract nr.CN3412-0011/16	Proiect nr. 0003	Data: 2016	Faza: DE
Antreprenor	COPISA CONSTRUCTORA PIRENAICA	Specificatie	Nume	Semnatura	Denumire Proiect: CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI
Proiectant	SC CONSITRANS SRL	Sef Proiect	Ing. Razvan POSTOACA		
		Proiectat	Ing. Vlad SIMON		
		Desenat	Ing. Vlad SIMON		
		Cod	P C T 0 0 0 1 P R P 1 D E 0 1 P T F 0 0 2 0 0		

Linie scurgere rigola

84.71

82.21

2.50

25

20

21.85

22.35

25

20

2.50

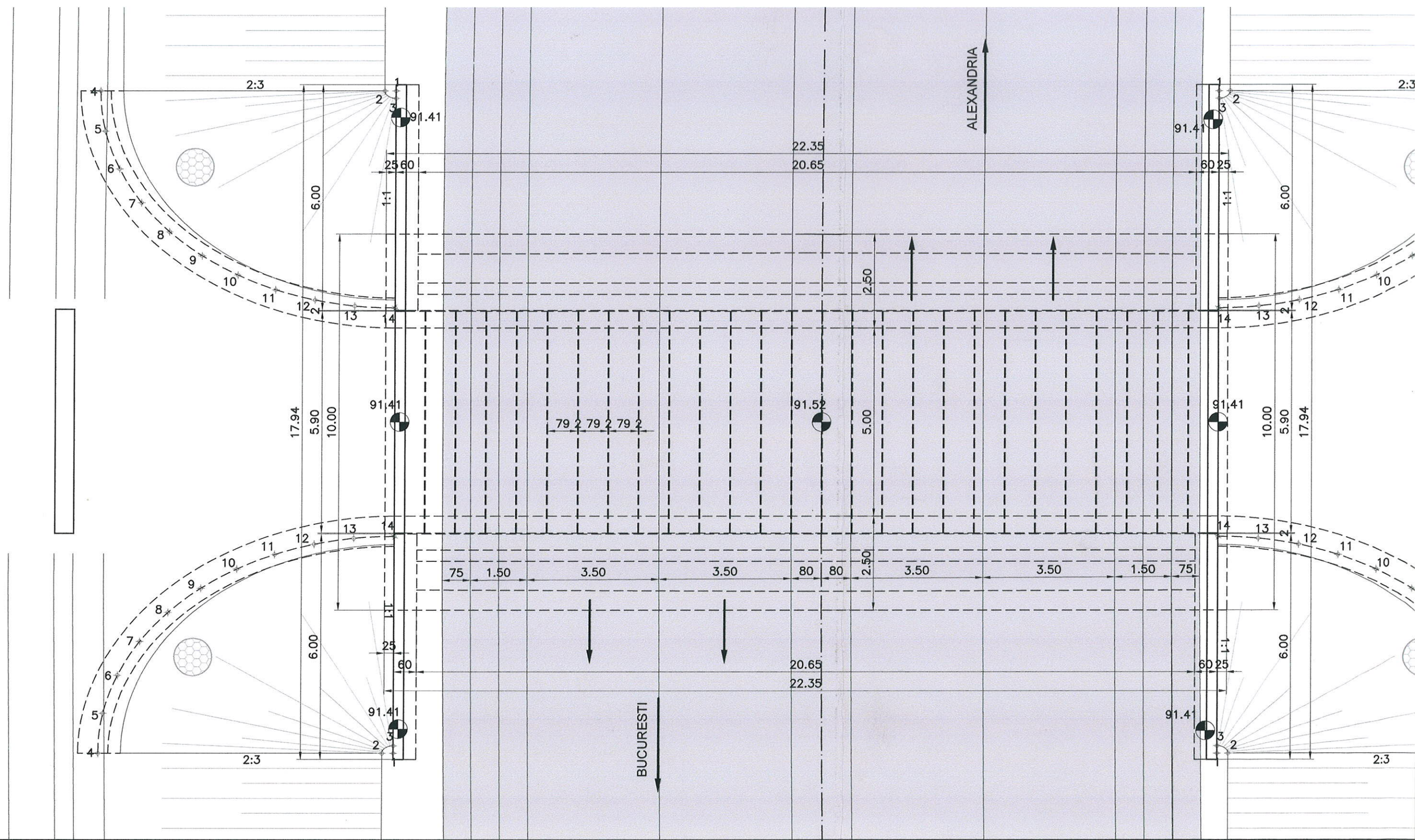
84.71

82.21

Beton de egalizare
C8/10

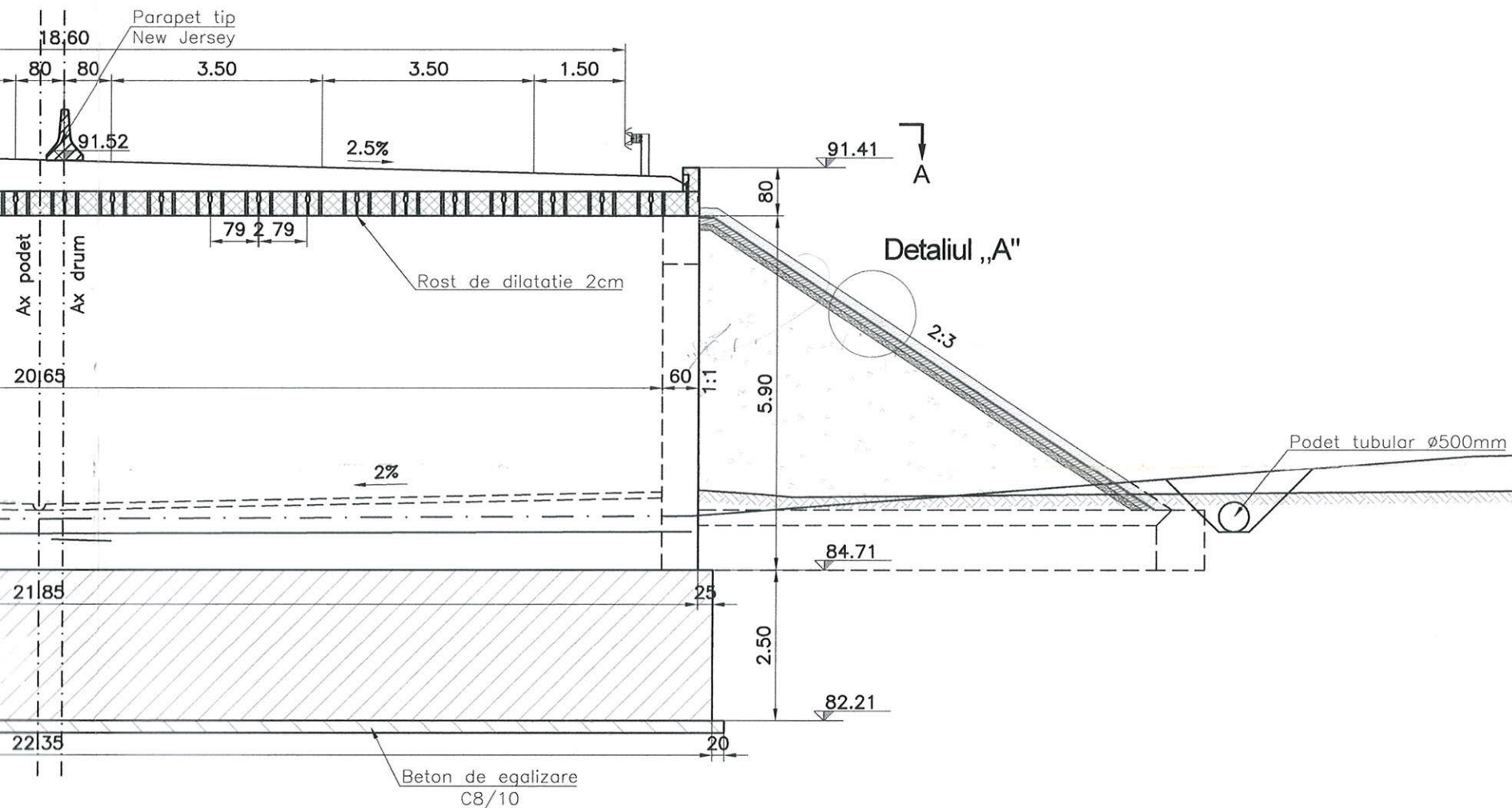
VEDERE PLANA A-A

Scara 1:100



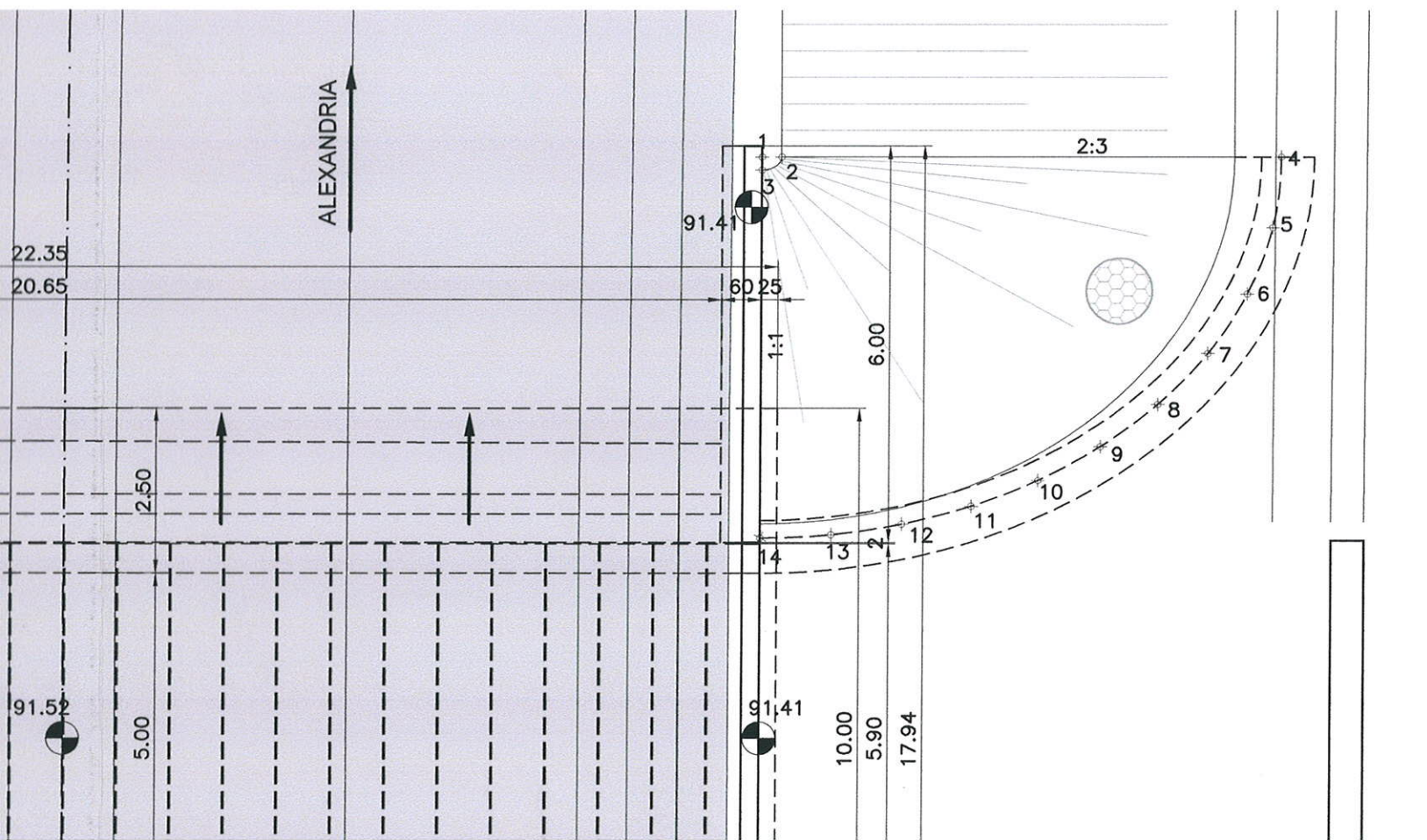
TIUNE B-B

cara 1:100



PLANA A-A

cara 1:100



TABEL TRASARE SFERT DE CON
CULEE ALEXANDRIA STÂNGA

PUNCT	X	Y
1	572759,16	312724,78
2	572759,31	312724,52
3	572759,34	312724,88
4	572763,06	312717,97
5	572763,92	312718,60
6	572764,61	312719,43
7	572765,09	312720,39
8	572765,39	312721,43
9	572765,52	312722,50
10	572765,49	312723,57
11	572765,33	312724,64
12	572765,05	312725,68
13	572764,66	312726,68
14	572764,17	312727,64

TABEL TRASARE SFERT DE CON
CULEE ALEXANDRIA DREAPTA

PUNCT	X	Y
1	572748,32	312743,75
2	572748,17	312744,01
3	572748,49	312743,85
4	572744,43	312750,56
5	572745,42	312750,98
6	572746,48	312751,15
7	572747,55	312751,08
8	572748,59	312750,82
9	572749,58	312750,38
10	572750,49	312749,81
11	572751,33	312749,14
12	572752,08	312748,37
13	572752,75	312747,52
14	572753,33	312746,61

TABEL TRASARE SFERT DE CON
CULEE BUCURESTI STÂNGA

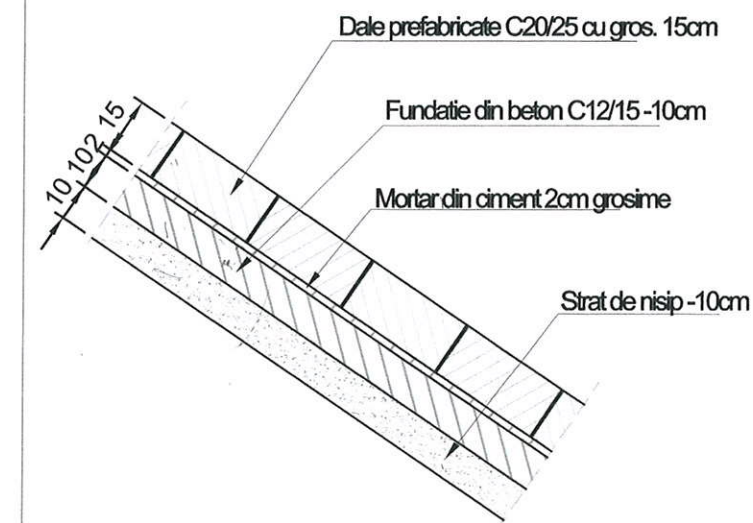
PUNCT	X	Y
1	572774,45	312733,52
2	572774,60	312733,26
3	572774,28	312733,42
4	572778,34	312726,71
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10	572772,28	312727,45
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12	572770,69	312728,90
13	572770,02	312729,75
14	572769,44	312730,66

TABEL TRASARE SFERT DE CON
CULEE BUCURESTI DREAPTA

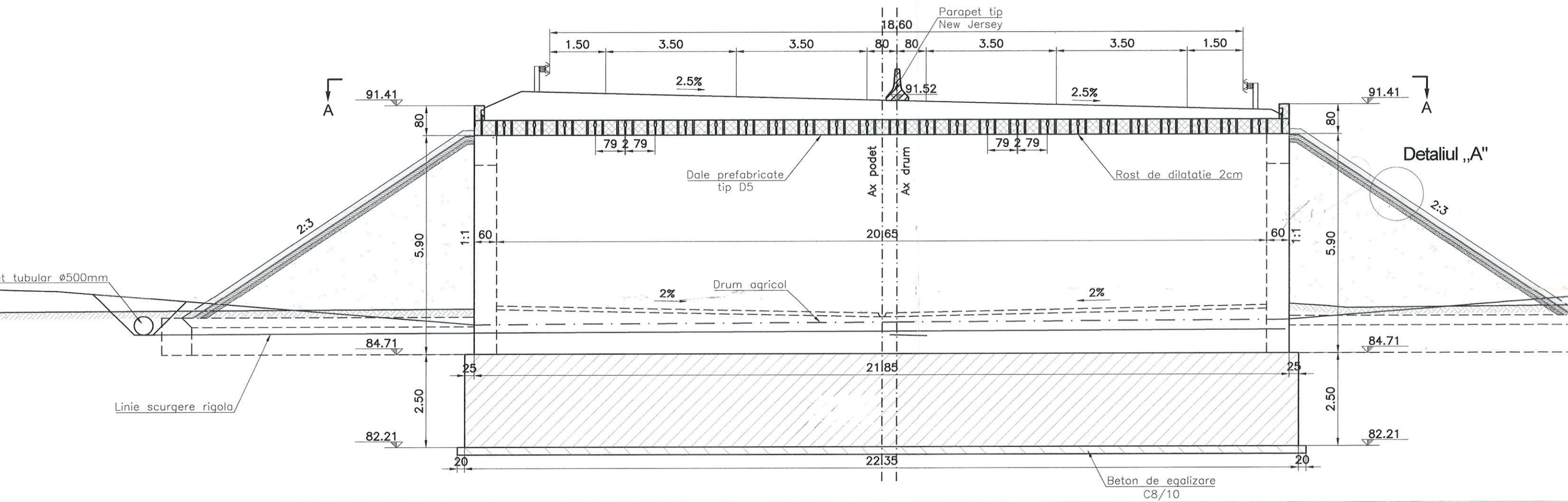
PUNCT	X	Y
1	572763,61	312752,49
2	572763,46	312752,75
3	572763,43	312752,39
4	572759,72	312759,30
5	572758,85	312758,66
6	572758,17	312757,83
7	572757,68	312756,87
8	572757,38	312755,84
9	572757,25	312754,77
10	572757,28	312753,69
11	572757,44	312752,63
12	572757,72	312751,59
13	572758,11	312750,59
14	572758,60	312749,63

DETALIUL „A”

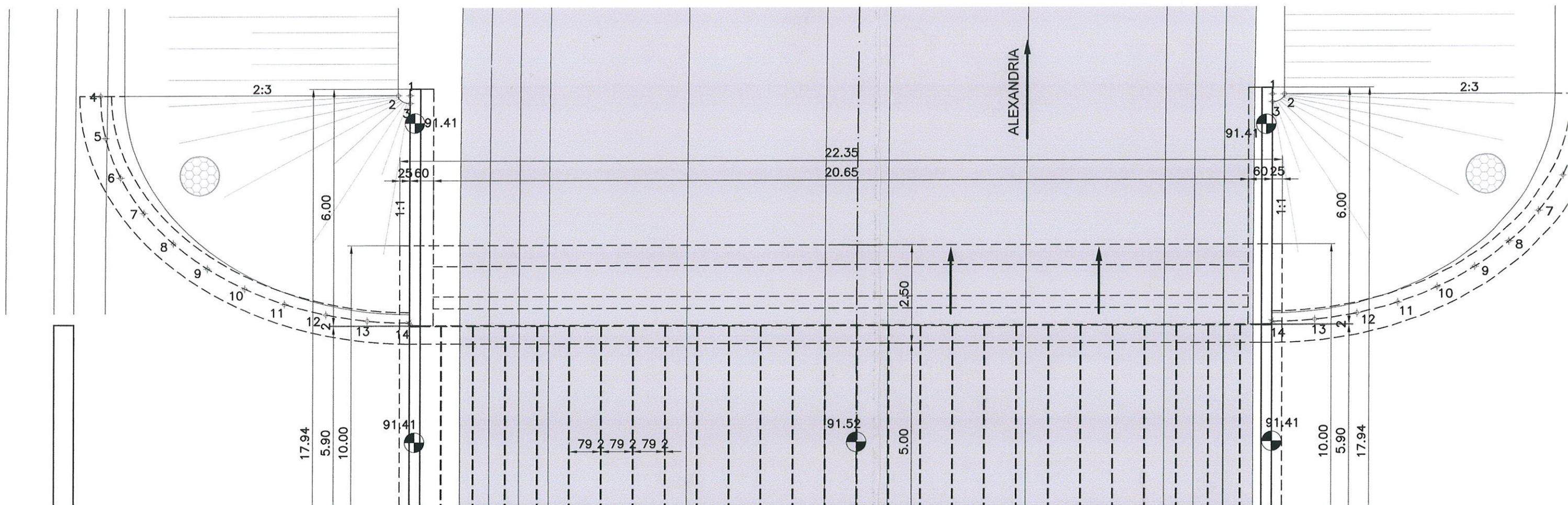
Scara 1:20



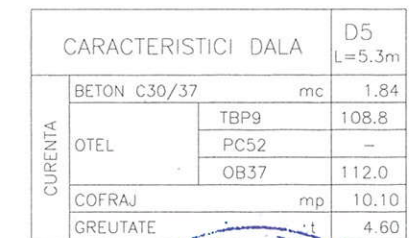
SECTIUNE B-B
Scara 1:100



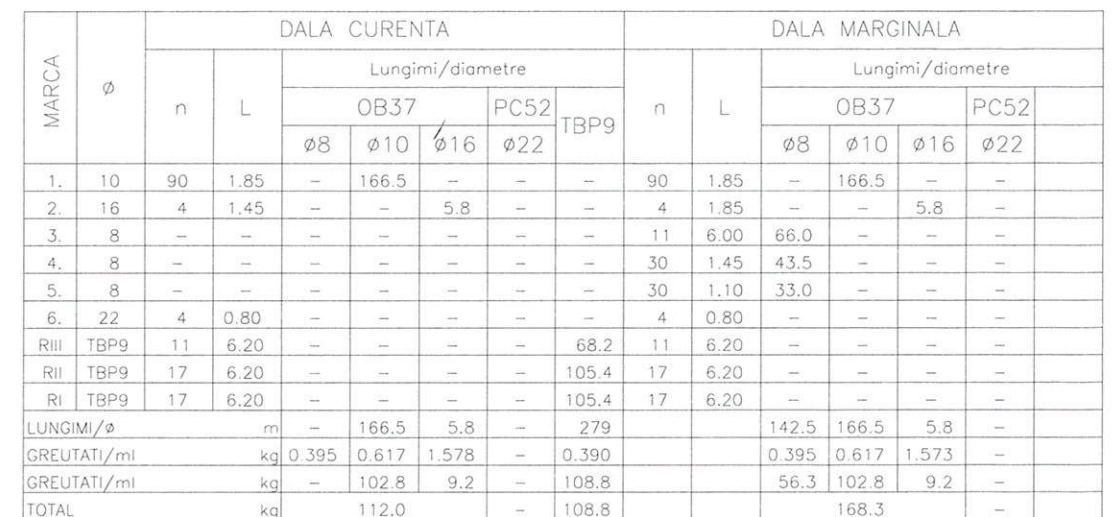
VEDERE PLANA A-A
Scara 1:100



Scale/Scara 1:10



SECTION/SECTIUNE A' - A Beneficiar
Scale/Scara 1:10 Compania Nationala de
Autostrazi si Drumuri



Grosimea minima a stratului de beton pentru acoperirea armaturilor este de 3.50cm.

EFORT DE CONTROL
 $\sigma_{pk} = 13.500 \text{ kg/cm}^2$ $N_{pk} = 6.68 \text{ t/toron}$

Elemente/Elemente	Clasa de expunere	Clasa de rezistență	Raport maxim apă/ciment	Dozaj minim de ciment (kg/m³)
Prefabricate podet	XF4+XC4+XD1	C 30/37	0.5	340

Beneficiar	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII 	Contract nr. CN3412-0011/16		Proiect nr. 0003		Data: 2016		Faza: DE															
Antreprenor	COPISA CONSTRUCTORA PIREAICA 	Specificatie	Nume			Semnatura		Denumire Proiect: CONSTRUCTIA VARIANTEI DE OCOLIRE MIHAILESTI															
		Sef Proiect	Ing. Razvan POSTOACA																				
Proiectant	SC CONSITRANS SRL 	Proiectat	Ing. Vlad SIMON					Scara: 1:10	Denumire desen: Podet km 1+235 Plan armare dala D5														
		Desenat	Ing. Vlad SIMON																				
		Cod	P	C	T	O	O	O	1	P	R	P	1	D	E	O	1	P	A	D	O	O	1