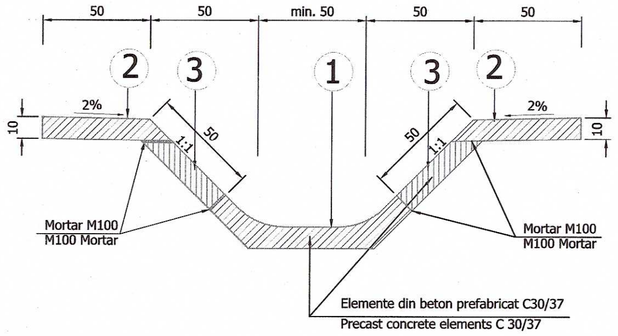
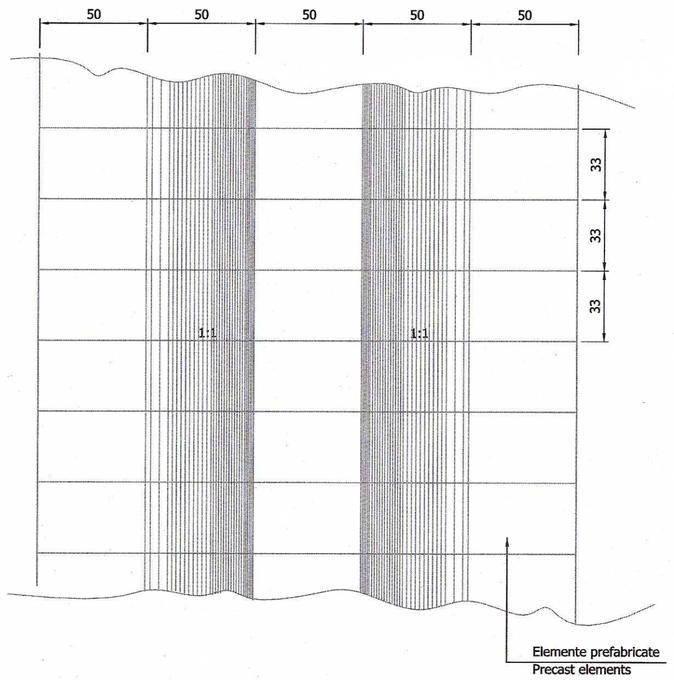
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TIPURI DE SANTURI SI RIGOLE DIN BETON PREFABRICAT SAU BETON MONOLIT
DITCHES AND GUTTERS TYPES MADE OF PRECAST CONCRETE OR CAST IN SITU CONCRETE

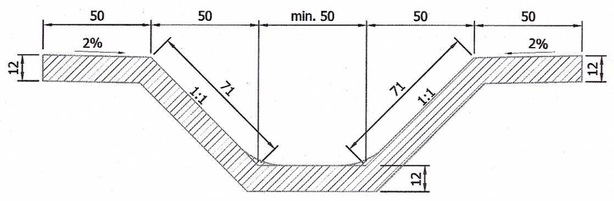
DETALIU SANT PREFABRICAT DE LA BAZA RAMBLEULUI TIP 1
PRECAST DITCH DETAIL TYPE 1
SCARA 1:20 / SCALE 1:20



VEDERE IN PLAN
PLAN VIEW

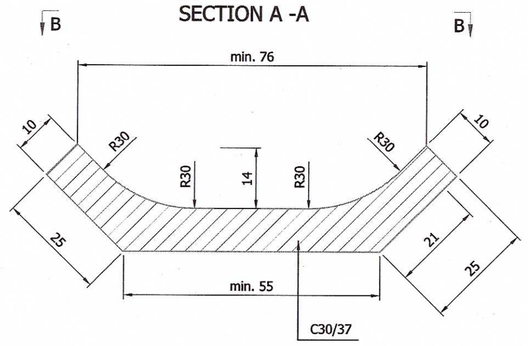


DETALIU SANT DIN BETON MONOLIT DE LA BAZA RAMBLEULUI
CAST IN SITU OF CONCRETE DITCH DETAIL
SCARA 1:20 / SCALE 1:20



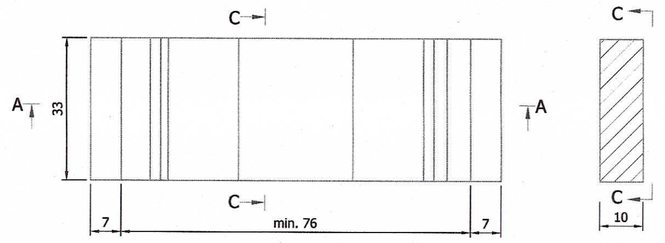
ELEMENT TIP 1
ELEMENT TYPE 1
SCARA 1:10 / SCALE 1:10

SECTIUNE A -A
SECTION A -A



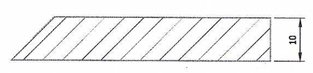
VEDERE B-B
B-B VIEW

SECTIUNE C - C
C - C SECTION



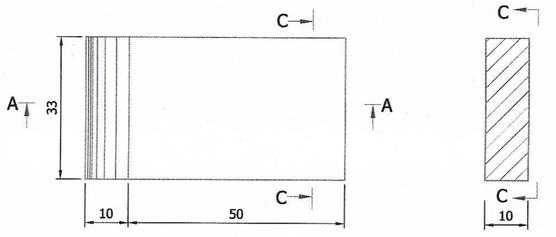
ELEMENT TIP 2
ELEMENT TYPE 2
SCARA 1:10 / SCALE 1:10

SECTIUNE A - A
A - A SECTION



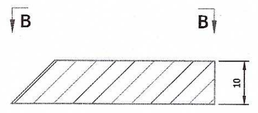
VEDERE B - B
B - B VIEW

SECTIUNE C - C
C - C SECTION



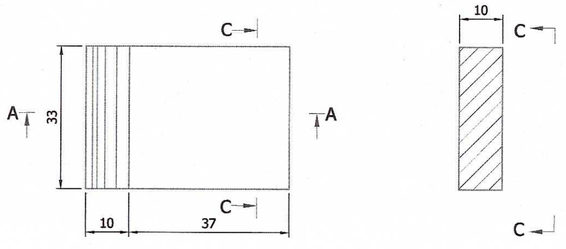
ELEMENT TIP 3
ELEMENT TYPE 3
SCARA 1:10 / SCALE 1:10

SECTIUNE A - A
A - A SECTION

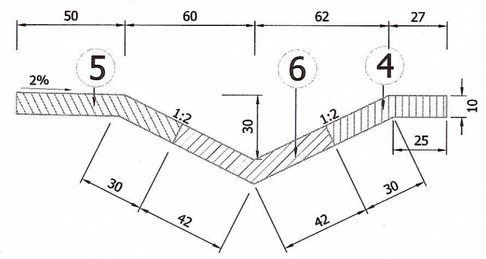


VEDERE B - B
B - B VIEW

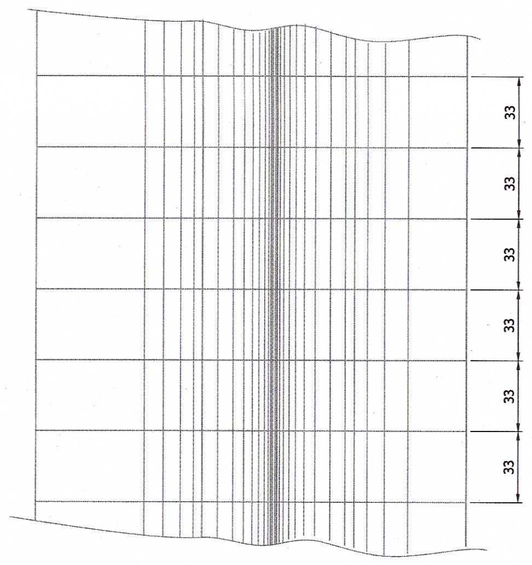
SECTIUNE C - C
C - C SECTION



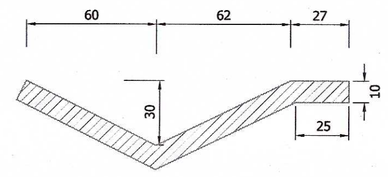
DETALIU RIGOLA PREFABRICATA TIP C1
PRECAST GUTTER DETAIL TYPE C1
SCARA 1:20 / SCALE 1:20



VEDERE IN PLAN
PLAN VIEW

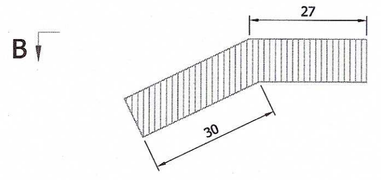


DETALIU RIGOLA DIN BETON MONOLIT
CAST IN SITU GUTTER DETAIL
SCARA 1:20 / SCALE 1:20

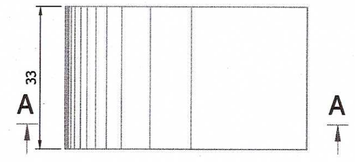


ELEMENT TIP 4
ELEMENT TYPE 4
SCARA 1:10 / SCALE 1:10

SECTIUNE A - A
A-A SECTION

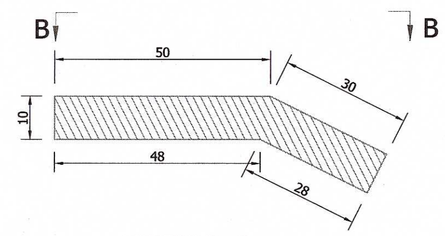


VEDERE B - B
B - B VIEW

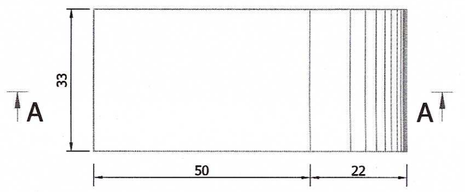


ELEMENT TIP 5
ELEMENT TYPE 5
SCARA 1:10 / SCALE 1:10

SECTIUNE A - A
A - A SECTION

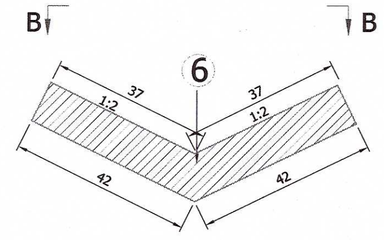


VEDERE B - B
B - B VIEW

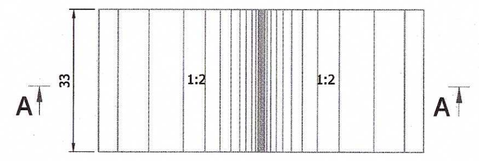


ELEMENT TIP 6
ELEMENT TYPE 6
SCARA 1:10 / SCALE 1:10

SECTIUNE A - A
A - A SECTION



VEDERE B - B
B - B VIEW



NOTE / NOTES

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TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 84+700 - 25+500

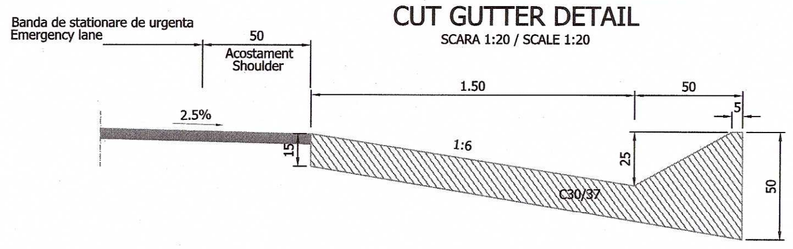
SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

TIPURI DE SANTURI SI RIGOLE DIN BETON PREFABRICAT SAU BETON MONOLIT
DITCHES AND GUTTERS TYPES MADE OF PRECAST CONCRETE OR CAST IN SITU CONCRETE

DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:10;1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET- 001

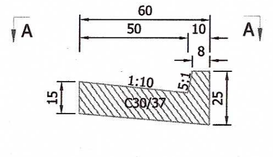
DETALII RIGOLA DE ACOSTAMENT SI CASIU
SHOULDER GUTTER AND SLOPE DITCH DETAILS

DETALIU RIGOLA DE DEBLEU
CUT GUTTER DETAIL
SCARA 1:20 / SCALE 1:20

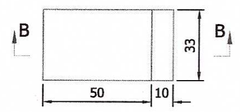


DETALIU RIGOLA DE ACOSTAMENT PREFABRICATA SAU MONOLITA
PRECAST OR CAST IN SITU SHOULDER GUTTER DETAIL
SCARA 1:20 / SCALE 1:20

SECTIUNE B-B
B-B SECTION

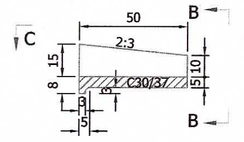


VEDERE A-A
B - B VIEW

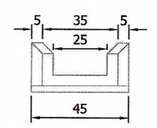


DETALIU ELEMENT PREFABRICAT
PRECAST ELEMENT DETAIL
SCARA 1:20 / SCALE 1:20

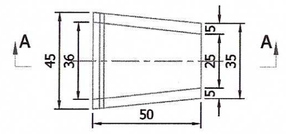
SECTIUNE A -A
A -A SECTION



VEDERE B - B
B - B VIEW

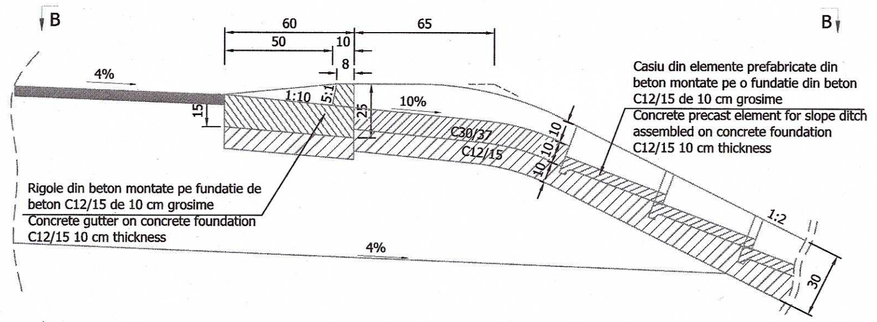


VEDERE C - C
C - C VIEW



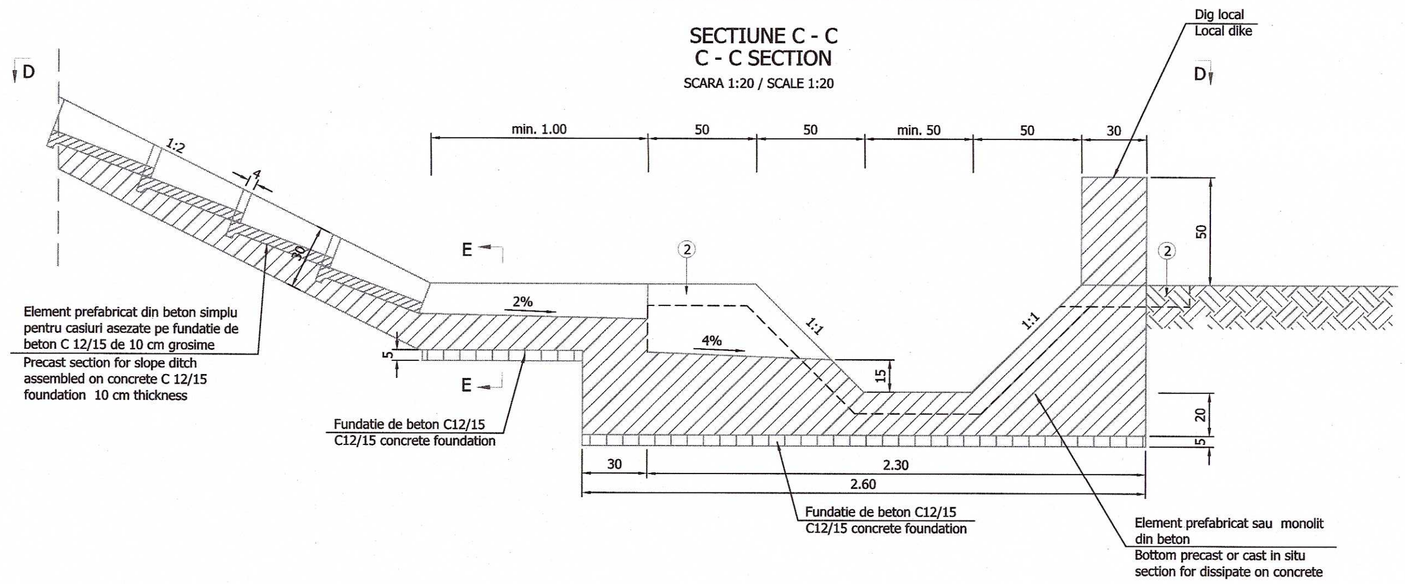
RACORDARE INTRE RIGOLE DE ACOSTAMENT SI CASIUL PE TALUZ
SHOULDER GUTTER DETAIL

SECTIUNE A - A
A - A SECTION
SCARA 1:20 / SCALE 1:20



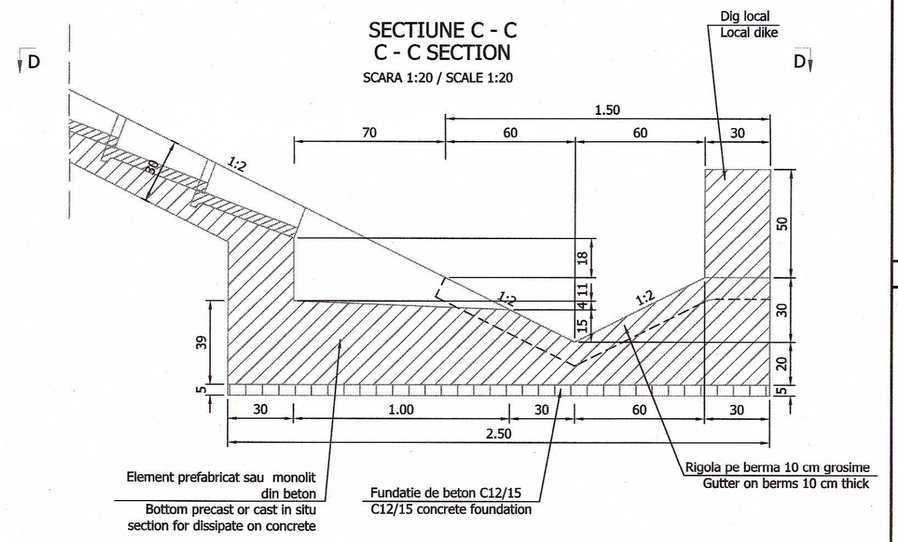
RACORDARE INTRE CASIUL PE TALUZ SI
SANTUL DE LA BAZA RAMBLEULUI
GUTTER DETAIL REGARDLESS FILL HEIGHT

SECTIUNE C - C
C - C SECTION
SCARA 1:20 / SCALE 1:20



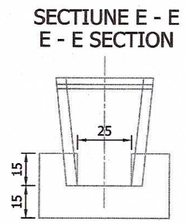
RACORDARE INTRE CASIUL PE TALUZ SI
RIGOLA DE PE BERMA
GUTTER DETAIL ON BERMS

SECTIUNE C - C
C - C SECTION
SCARA 1:20 / SCALE 1:20

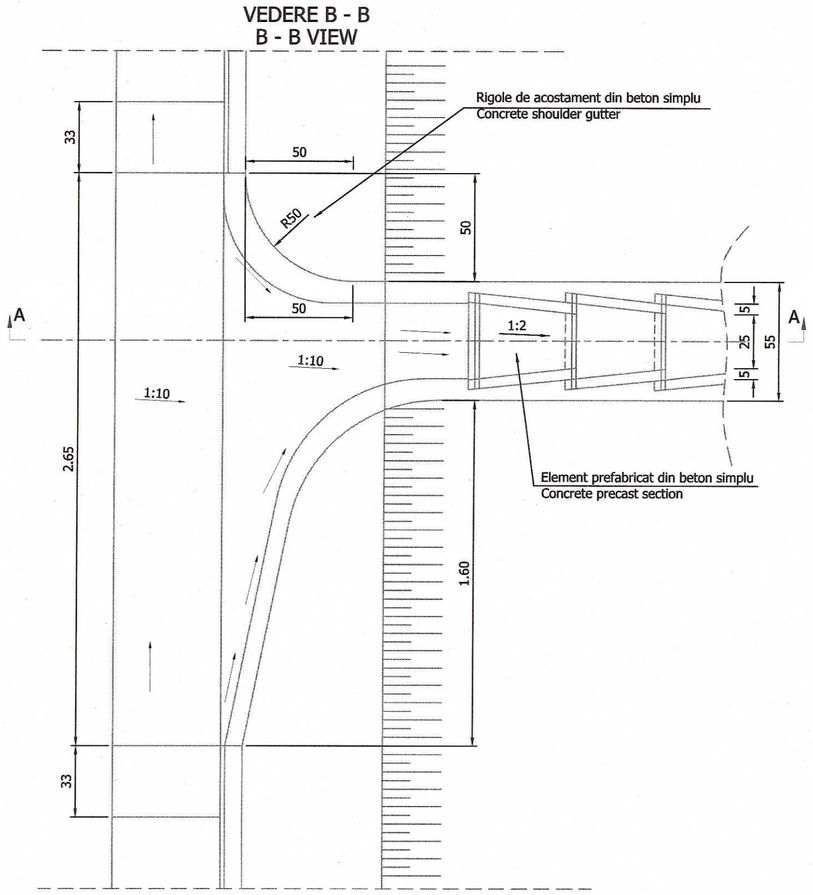


Rigola prefabricata sau monolita
Precast or cast in situ gutter

SECTIUNE E - E
E - E SECTION

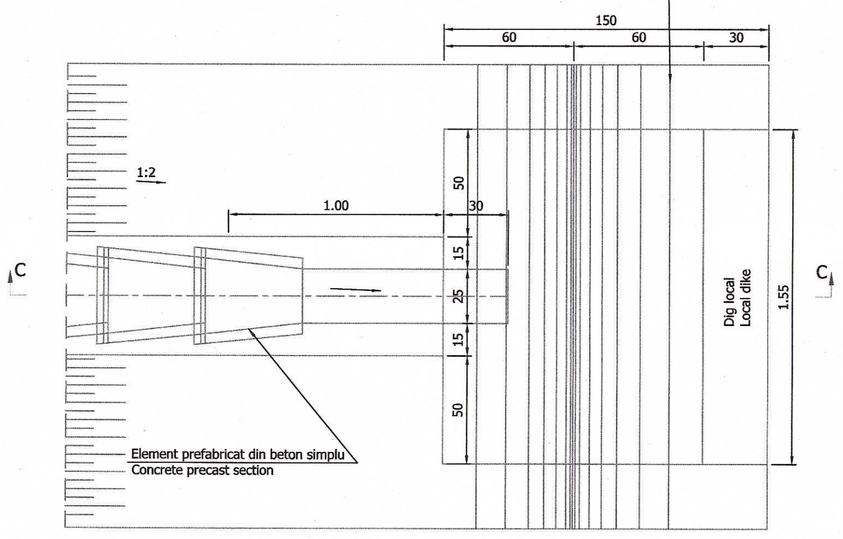


VEDERE B - B
B - B VIEW



VEDERE D - D
D - D VIEW

VEDERE D - D
D - D VIEW



NOTE / NOTES

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CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

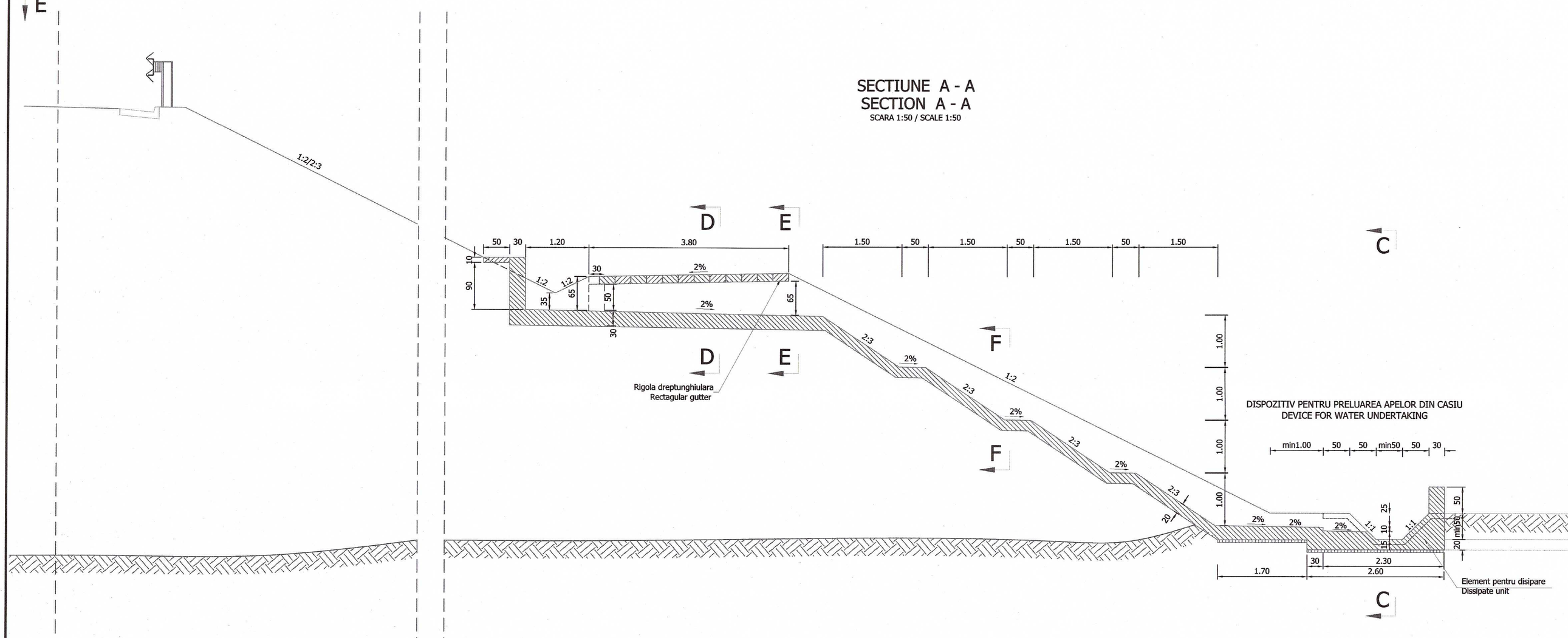
SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

DETALII RIGOLA DE ACOSTAMENT SI CASIU
SHOULDER GUTTER AND SLOPE DITCH DETAILS

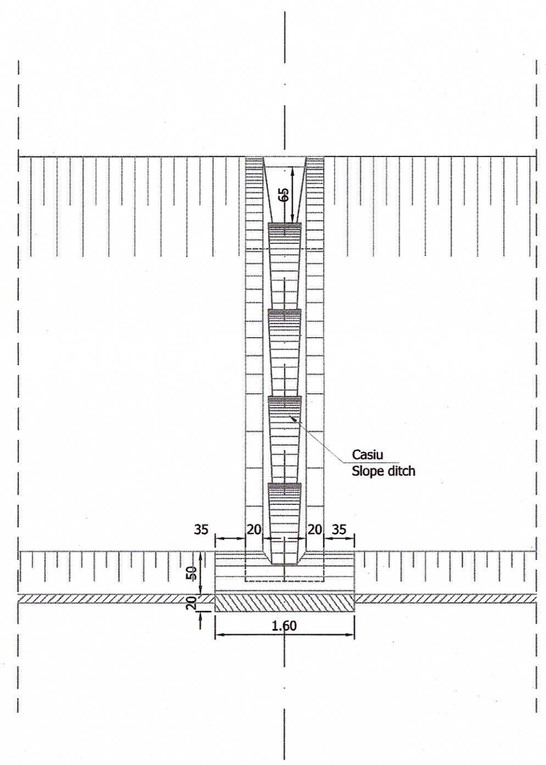
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET-002

DETALII PRIVIND DESCARCAREA RIGOLELOR DE PE BERME
DETAILS CONCERNING THE DISCHARGING OF BERM'S GUTTERS

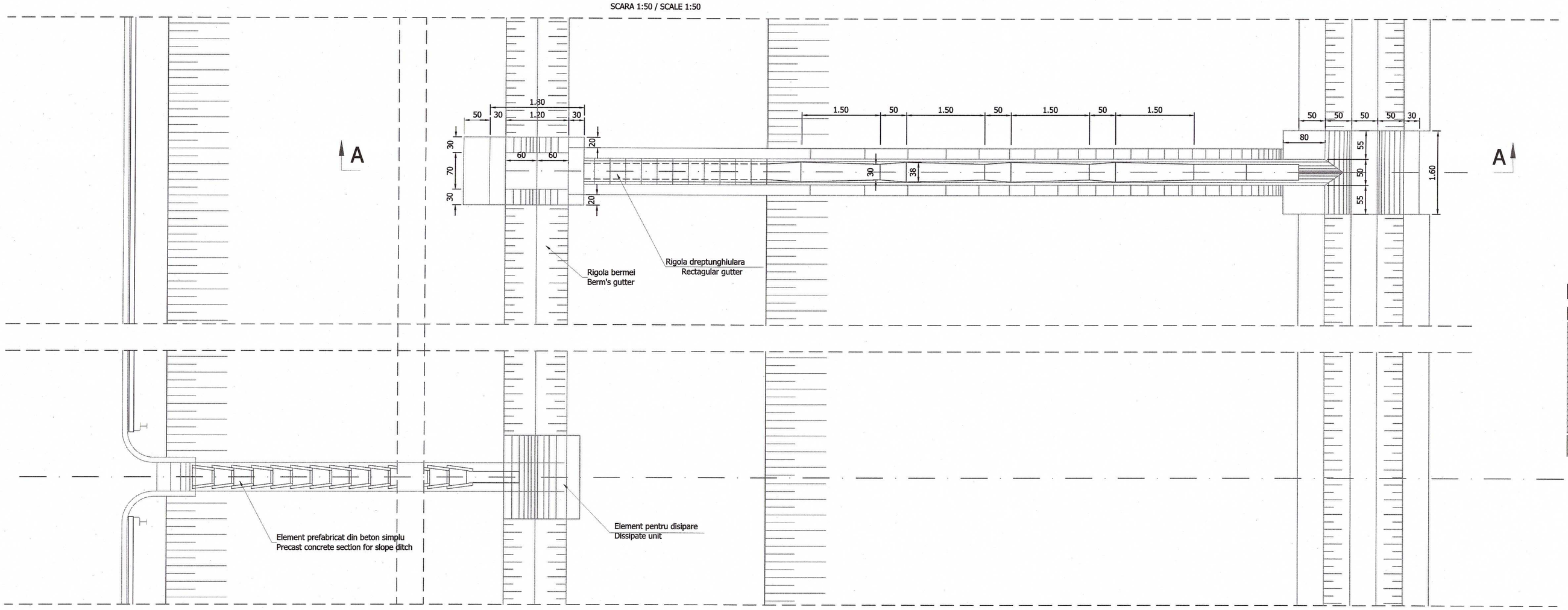
SECTIUNE A - A
SECTION A - A
SCARA 1:50 / SCALE 1:50



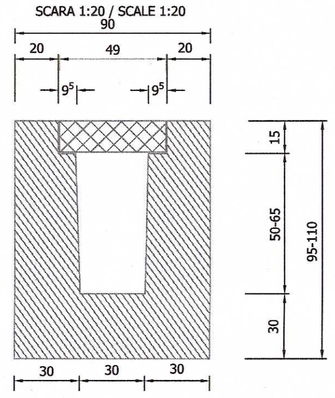
VEDERE C - C
VIEW C - C
SCARA 1:50 / SCALE 1:50



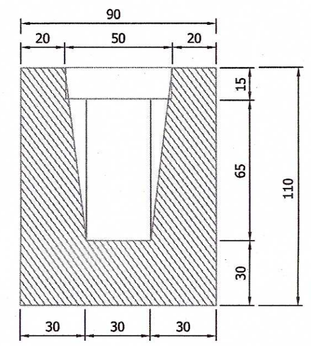
VEDERE B - B
VIEW B - B
SCARA 1:50 / SCALE 1:50



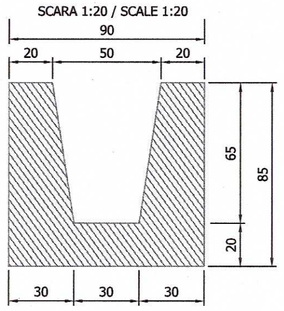
SECTIUNE D - D
VIEW D - D
SCARA 1:20 / SCALE 1:20



SECTIUNE E - E
VIEW E - E
SCARA 1:20 / SCALE 1:20



SECTIUNE F - F
VIEW F - F
SCARA 1:20 / SCALE 1:20



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PROIECT ILUSTRATIV

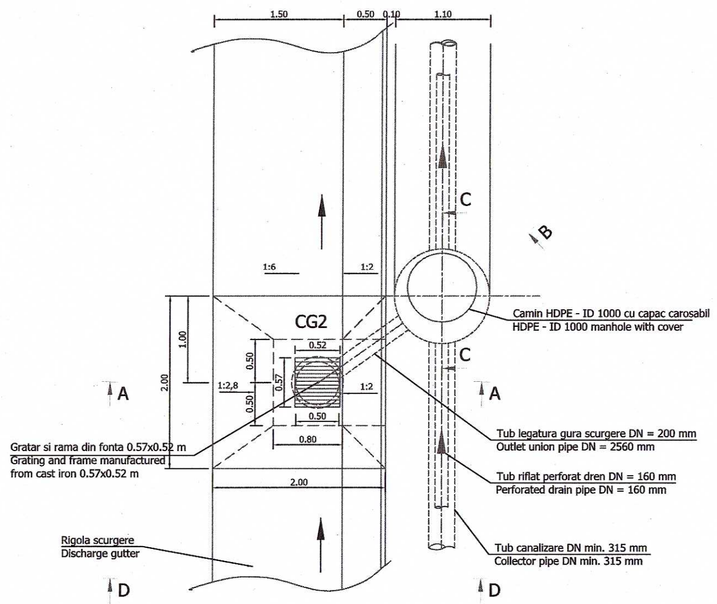
TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

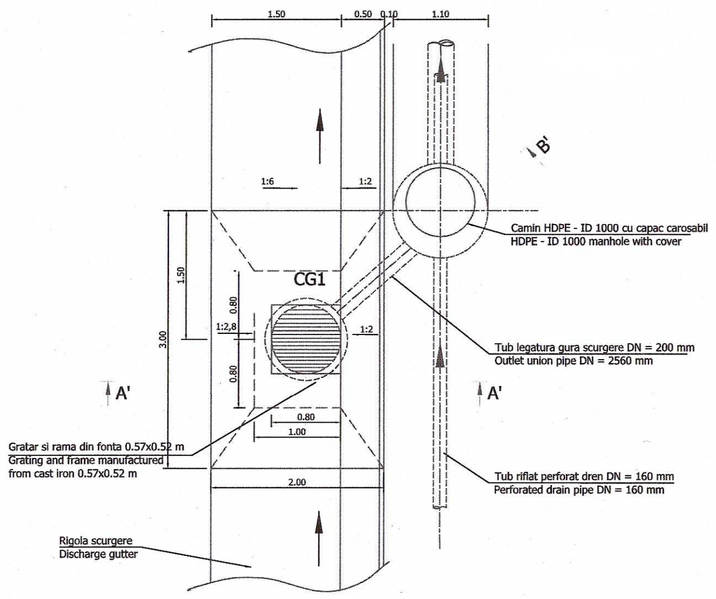
SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

DETALII PRIVIND DESCARCAREA RIGOLELOR DE PE BERME
DETAILS CONCERNING THE DISCHARGING OF BERM'S GUTTERS

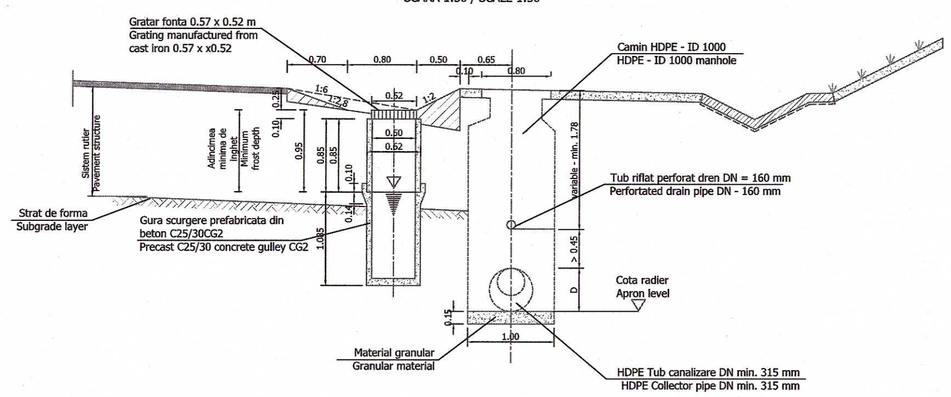
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
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PROIECTAT DESIGNER	I. Pana
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Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:50;1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET- 003

ZONA LATERALA AUTOSTRADA
LATERAL AREA OF THE MOTORWAY
GURA SCURGERE BETON - CAMIN DIN MATERIAL PLASTIC TIP MH2
CONCRETE GULLEY - PLASTIC MATERIAL MANHOLE TYPE MH2
SCARA 1:50 / SCALE 1:50

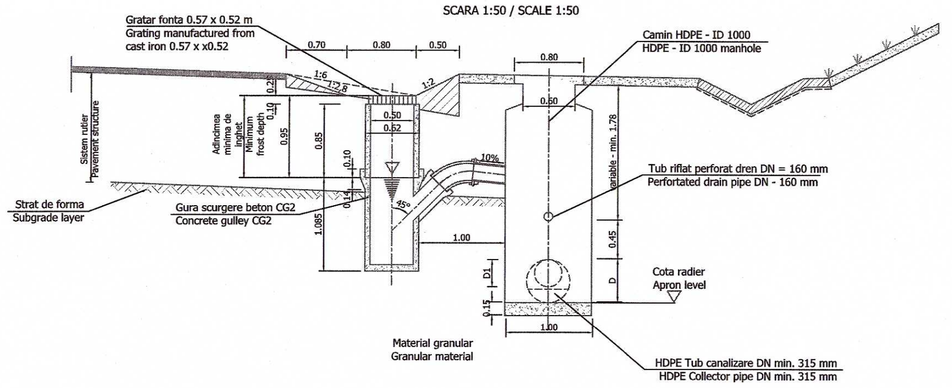




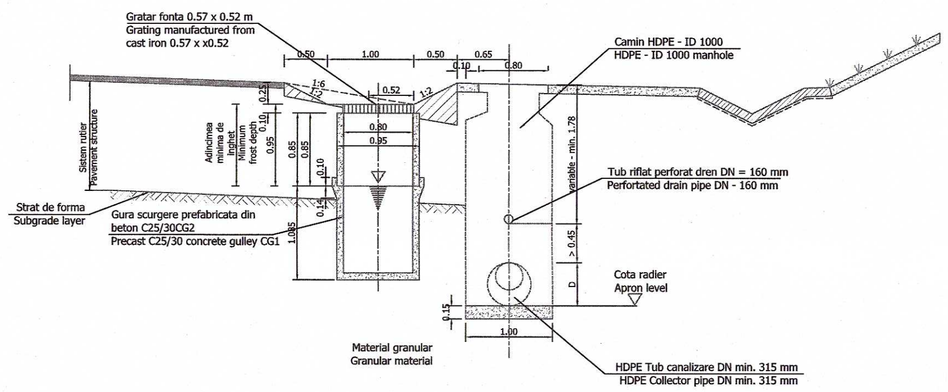
SECTIUNE A - A
SECTION A - A
SCARA 1:50 / SCALE 1:50



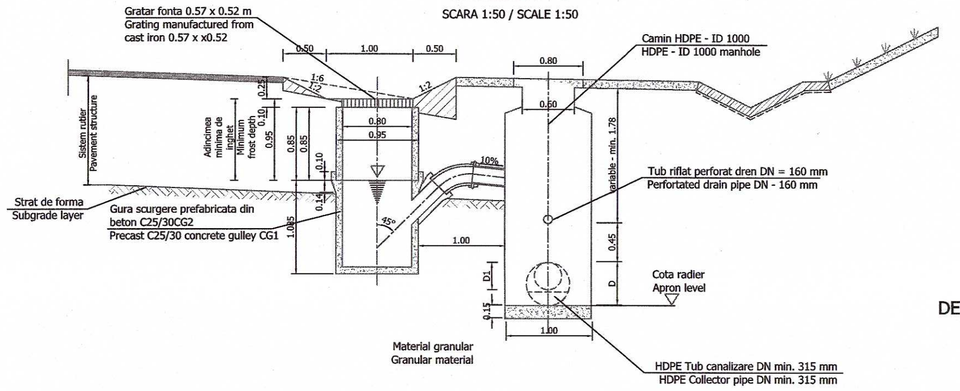
SECTIUNE A - B
SECTION A - B
SCARA 1:50 / SCALE 1:50



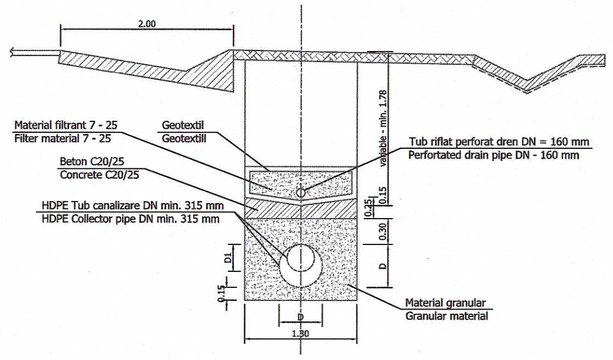
SECTIUNE A' - A'
SECTION A' - A'
SCARA 1:50 / SCALE 1:50



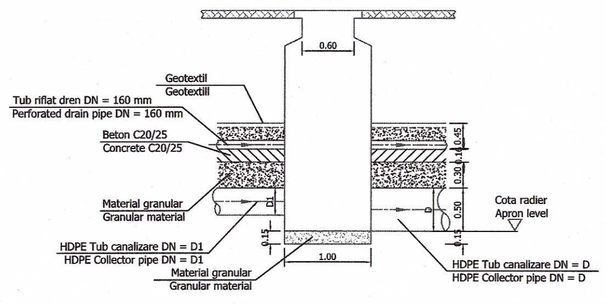
SECTIUNE A' - B'
SECTION A' - B'
SCARA 1:50 / SCALE 1:50



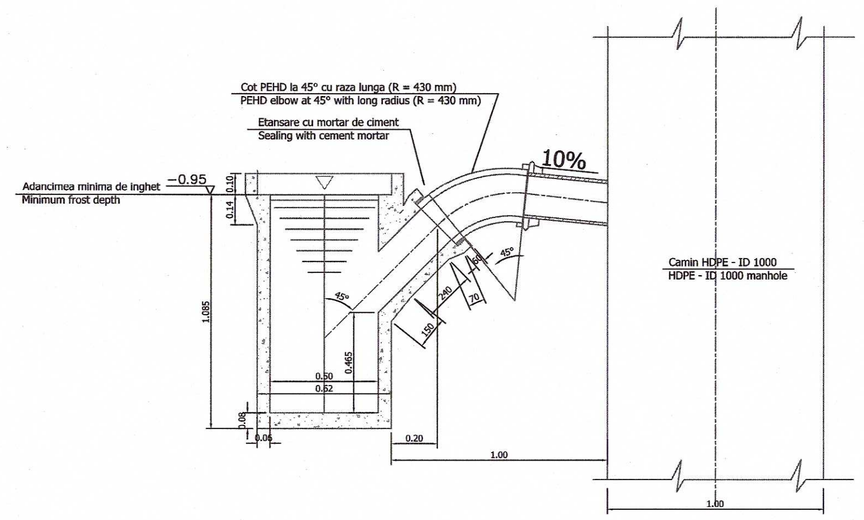
SECTIUNE D - D
SECTION D - D
SCARA 1:50 / SCALE 1:50



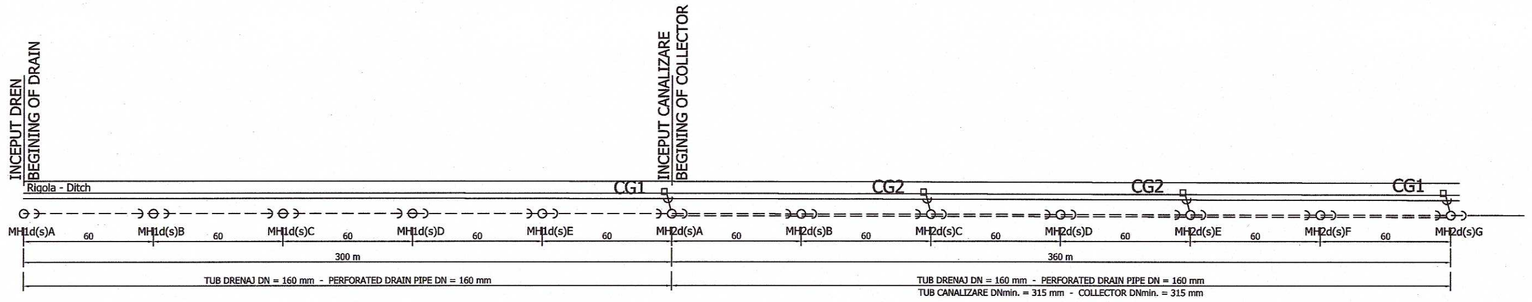
SECTIUNE C - C
SECTION C - C
SCARA 1:50 / SCALE 1:50



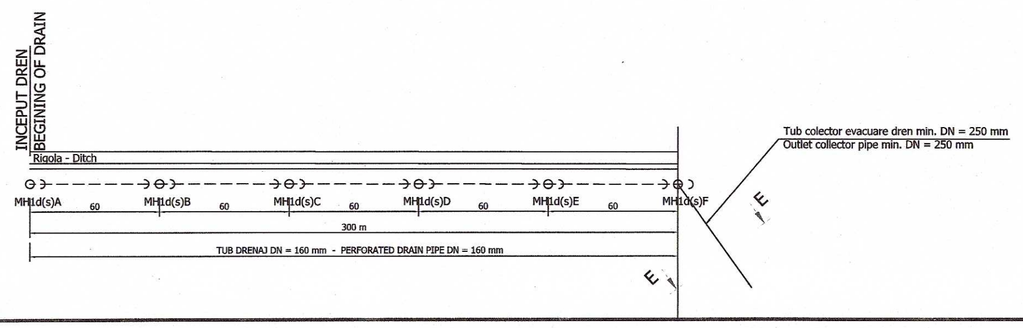
DETALIU RACORDARE GURA DE SCURGERE TIP CG2 DIN BETON
LA CAMIN DIN MATERIAL PLASTIC
CONNECTION DETAIL CONCRETE GULLEY TYPE CG2
AT PLASTIC MANHOLE
SCARA 1:20 / SCALE 1:20



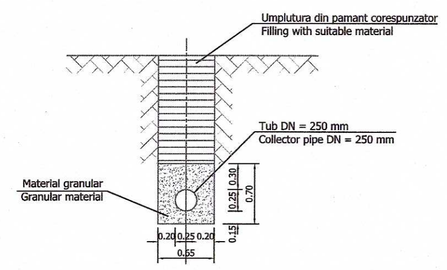
CANALIZARE ZONA LATERALA. VEDERE IN PLAN
LATERAL AREA COLLECTOR. PLAN VIEW
(Se aplica pe tronsoane cu pante ale rigolei mai mari de 0.3% in care rigola poate prelua debitul de calcul al apelor de suprafata numai pe primii 300 m)
(it is be aplied on section with inclination of the gutter more than 0.3 %, where the gutter may take over the surface waters calculated flow only on the first 300 m)
SCARA 1:50 / SCALE 1:50



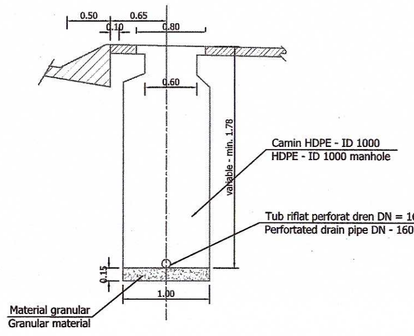
DREN. VEDERE IN PLAN
DRAIN. PLAN VIEW
(Se aplica pe tronsoane cu pante ale rigolei mai mari de 0.3% in care rigola poate prelua intreg debitul de calcul al apelor de suprafata)
(it is be aplied on section with inclination of the gutter more than 0.3 %, where the gutter may take over the entire calculated flow of the surface waters)
SCARA 1:50 / SCALE 1:50



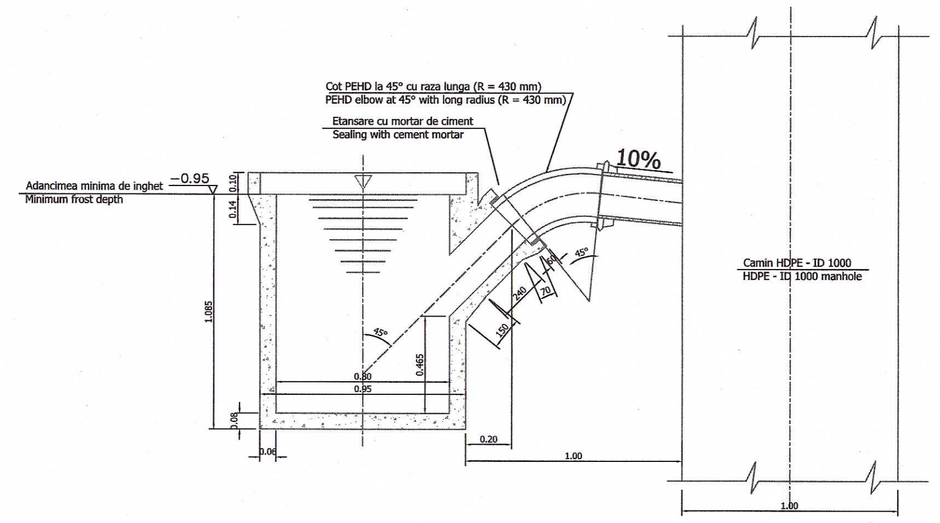
SECTIUNE EVACUARE DREN E - E
OUTLET PIPE DRAIN SECTION E - E
SCARA 1:50 / SCALE 1:50



DETALIU CAMIN MH1 (PE DREN)
MANHOLE DETAIL MH1 (ON DRAIN)
SCARA 1:50 / SCALE 1:50



DETALIU RACORDARE GURA DE SCURGERE TIP CG1 DIN BETON
LA CAMIN DIN MATERIAL PLASTIC
CONNECTION DETAIL CONCRETE GULLEY TYPE CG1
AT PLASTIC MANHOLE
SCARA 1:20 / SCALE 1:20



NOTE / NOTES

Corespondenta dintre diametrul interior si cel exterior (pentru diametre diferite ale conductelor)
Table correspondence between internal and external diameter (for different pipes dimension)

DN (mm)	315	400	500	250	160 perforated
ID (mm)	271	343	427	216	152

BENEFICIAR / CLIENT
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SEARCH CORPORATION

AUTOSTRADA TRANSILVANIA
TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

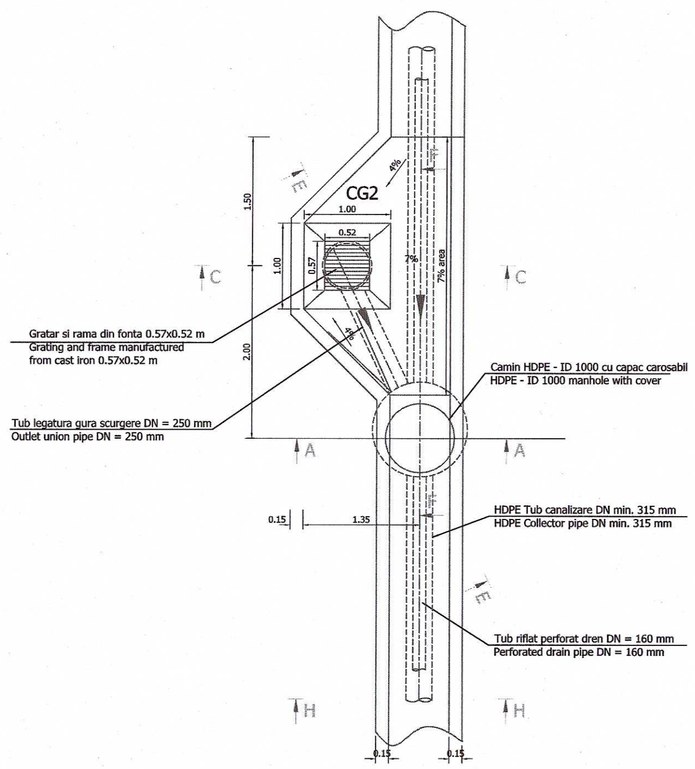
TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

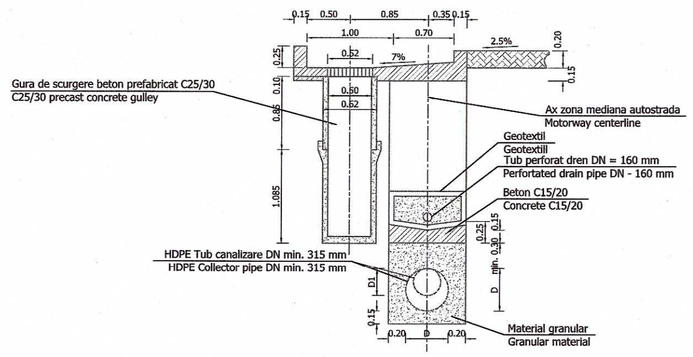
DETALII TIP CANALIZARE ZONA LATERALA AUTOSTRADA / TYPICAL DETAILS OF LATERAL AREA OF THE MOTORWAY CANALIZATION

DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:50; 1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET-004

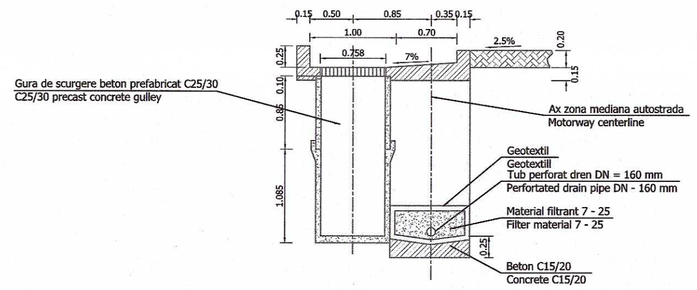
ZONA CENTRALA AUTOSTRADA
CENTRAL AREA OF THE MOTORWAY
GURA SCURGERE BETON TIP CG2 + CAMIN DIN MATERIAL PLASTIC TIP MH2
CONCRETE GULLEY TYPE CG2 + PLASTIC MATERIAL MANHOLE TYPE MH2
SCARA 1:50 / SCALE 1:50



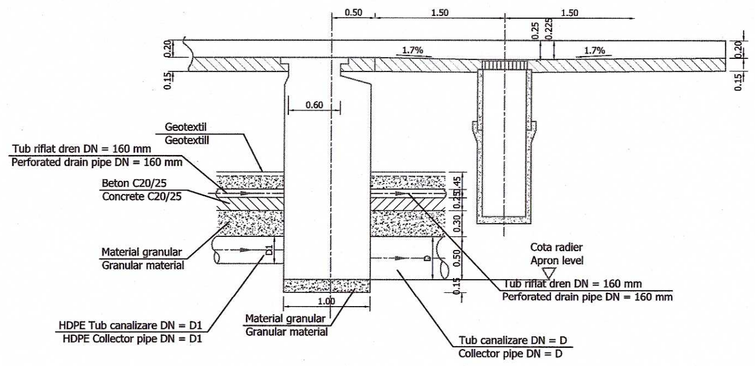
SECTIUNE PRIN GURA SCURGERE CG2 (C - C)
SECTION THROUGH GULLEY CG2 (C - C)
SCARA 1:50 / SCALE 1:50



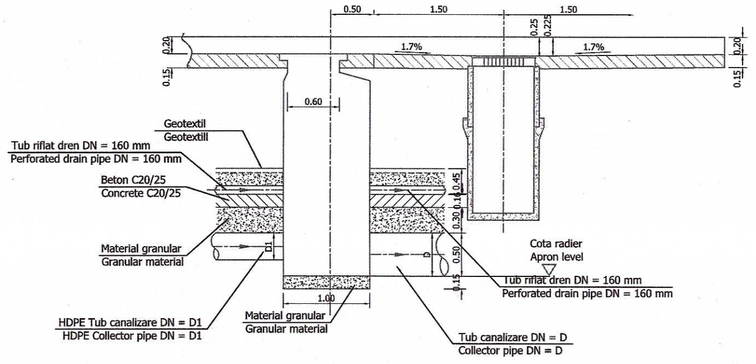
SECTIUNE PRIN GURA SCURGERE CG1 (B - B)
SECTION THROUGH GULLEY CG1 (B - B)
SCARA 1:50 / SCALE 1:50



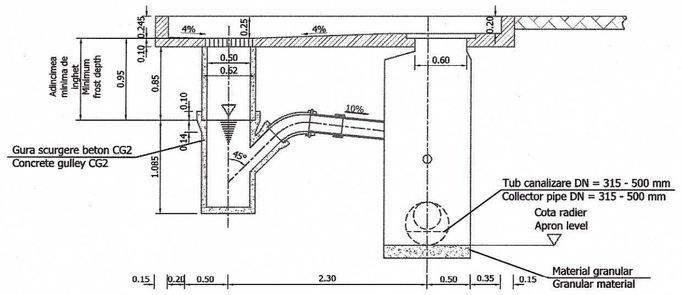
SECTIUNE (F - F)
SECTION (F - F)
SCARA 1:50 / SCALE 1:50



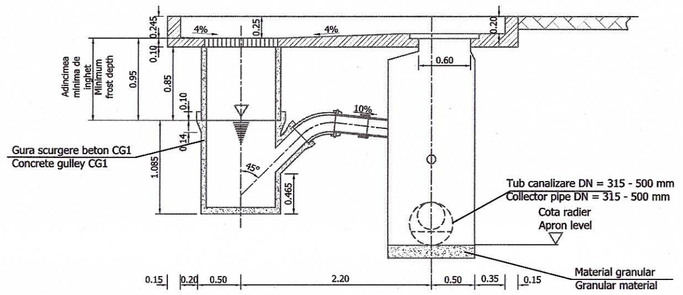
SECTIUNE G - G
SECTION G - G
SCARA 1:50 / SCALE 1:50



SECTIUNE E - E
SECTION E - E
SCARA 1:50 / SCALE 1:50

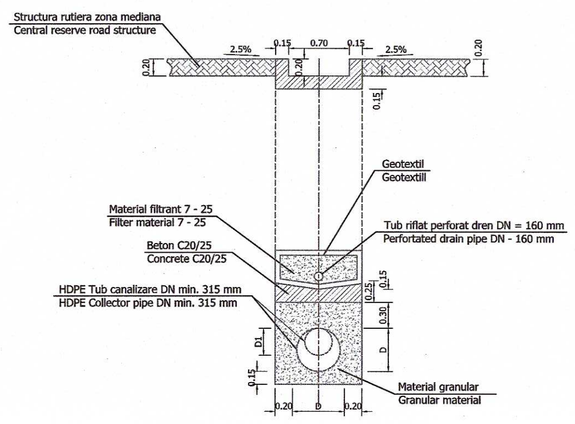


SECTIUNE D - D
SECTION D - D
SCARA 1:50 / SCALE 1:50

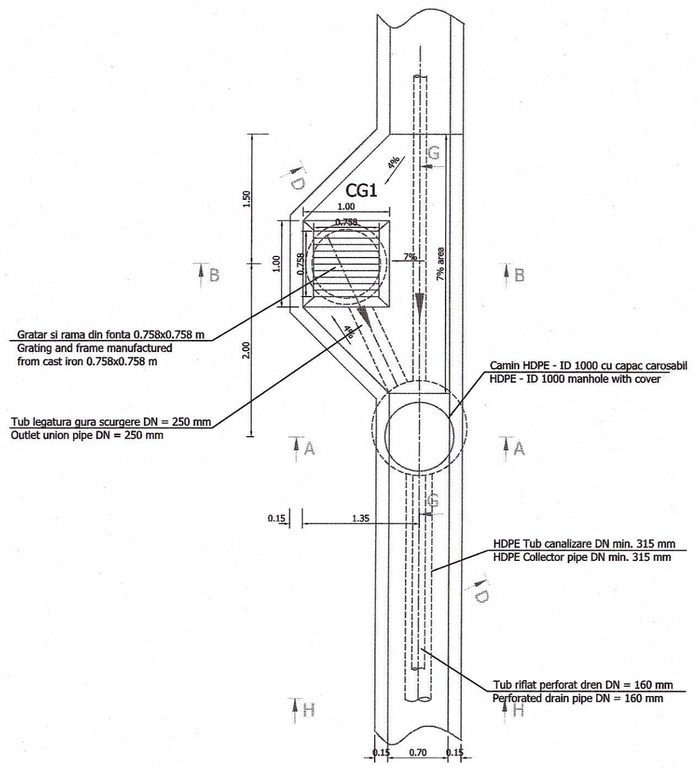


SECTIUNE EVACUARE DREN
OUTLET PIPE DRAIN SECTION
SCARA 1:50 / SCALE 1:50

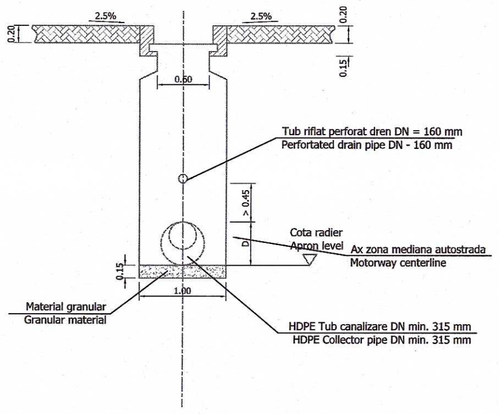
SECTIUNE H - H
SECTION H - H
SCARA 1:50 / SCALE 1:50



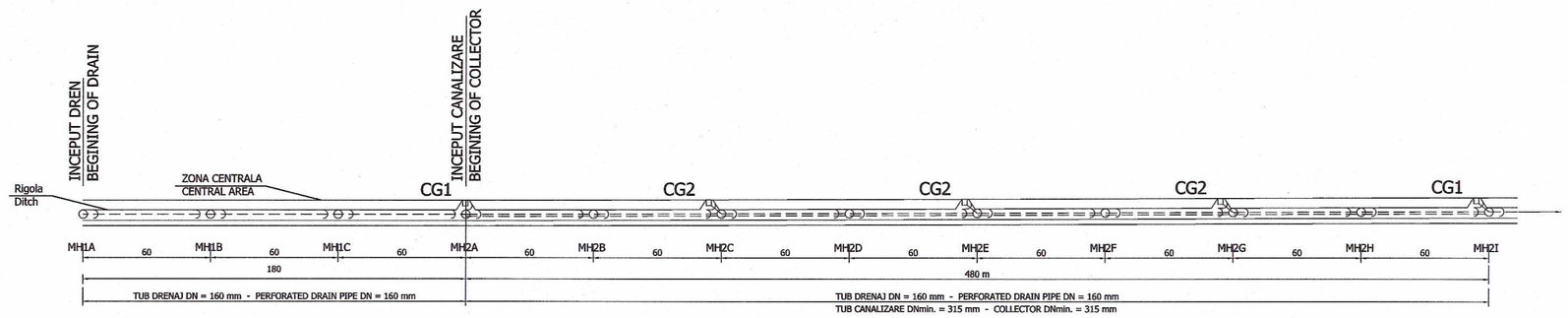
ZONA CENTRALA AUTOSTRADA
CENTRAL AREA OF THE MOTORWAY
GURA SCURGERE BETON TIP CG1 + CAMIN DIN MATERIAL PLASTIC
CONCRETE GULLEY TYPE CG1 + PLASTIC MATERIAL MAHOLE
SCARA 1:50 / SCALE 1:50



SECTIUNE PRIN CAMIN TIP MH1 (A - A)
MANHOLE CROSS SECTION TYPE (A - A)
SCARA 1:50 / SCALE 1:50



CANALIZARE ZONA CENTRALA. VEDERE IN PLAN
CENTRAL AREA COLLECTOR. PLAN VIEW
(Se aplica pe tronsoane cu pante ale rigolei mai mari de 0.3% in care rigola poate prelua debitul de calcul al apelor de suprafata numai pe primii 180 m)
(it is be aplied on section with inclination of the gutter more than 0.3 %, where the gutter may take over the surface waters calculated flow only on the first 180 m)
SCARA 1:50 / SCALE 1:50



NOTE / NOTES

Corespondenta dintre diametrul interior si cel exterior (pentru diametre diferite ale conductelor)
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TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

DETALII TIP CANALIZARE ZONA CENTRALA AUTOSTRADA / TYPICAL DETAILS OF THE CENTRAL AREA OF THE MOTORWAY CANALIZATION

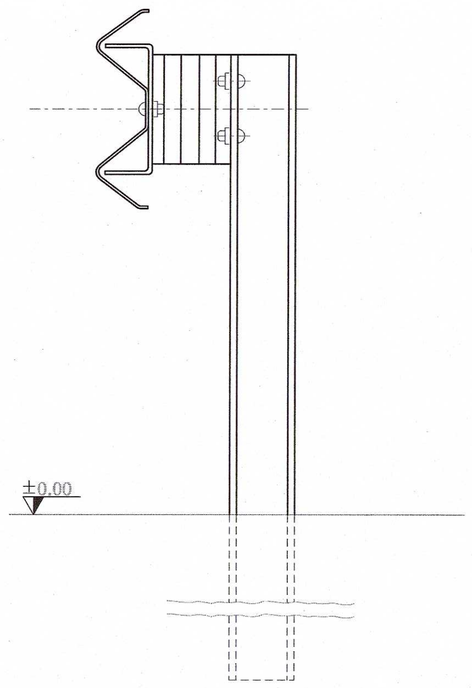
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract No. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:50; 1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET- 005

PARAPETE METALIC ZINCAT
ZINC - COATED METALLIC GUARDRAIL

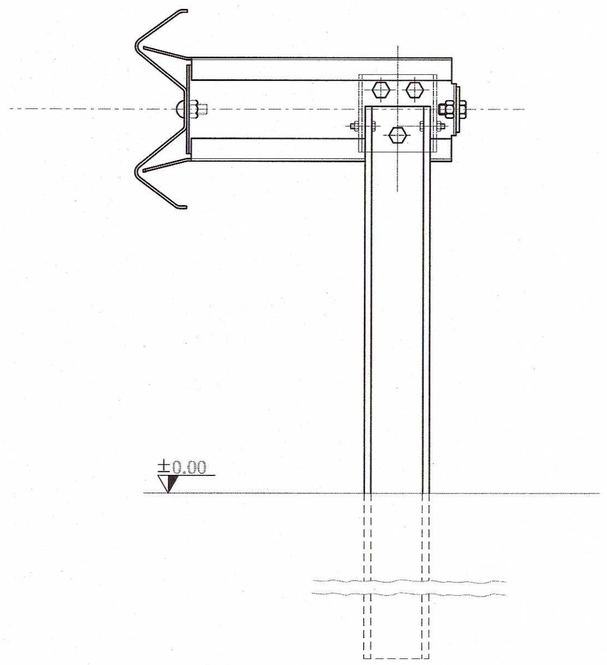
SECTIUNE TRANSVERSALA / CROSS SECTION

(Conform AND 591 - CATALOG DE SISTEME DE PROTECTIE PENTRU SIGURANTA CIRCULATIEI PE DRUMURI SI AUTOSTRAZI)
(According AND 591 - SYSTEMS PROTECTION CATALOG FOR SAFETY OF TRAFFIC ON ROADS AND MOTTORWAY)

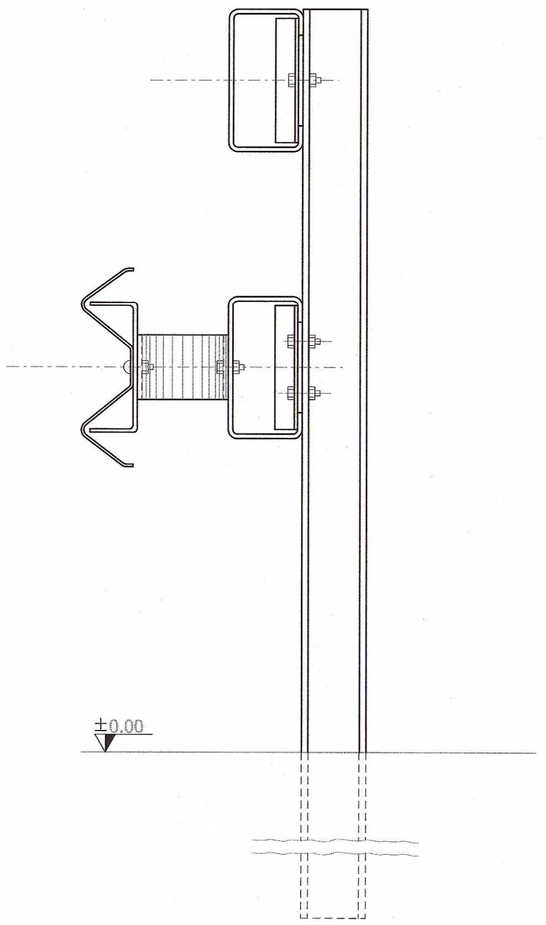
PARAPETE METALIC ZINCAT
CU NIVEL DE PROTECTIE N2
ZINC-COATED METALLIC GUARDRAIL
PROTECTION LEVEL N2
(Parapete semigreu)
(Medium heavy guardrail)



PARAPETE METALIC ZINCAT
CU NIVEL DE PROTECTIE H2
ZINC-COATED METALLIC GUARDRAIL
PROTECTION LEVEL H2
(Parapete greu)
(Heavy guardrail)



PARAPETE METALIC ZINCAT
CU NIVEL DE PROTECTIE H4b
ZINC-COATED METALLIC GUARDRAIL
(Parapete foarte greu)
(Verry heavy guardrail)



NOTA:

1. In desen sunt prezentate tipuri de parapete, ele putand avea orice alta configuratie functie de producator.
2. Parapetele va trebui sa aiba agrement tehnic, certificat privind testele efectuate pentru stabilirea rezistentei la izbire in conformitate cu cerintele din standarde cat si acordul beneficiarului referitor la utilizarea acestor tipuri de parapete.
3. Parapetele va trebui sa aiba posibilitatea de a fi montate dispozitive antiorbire.
4. Contractorul trebuie sa asigure un depozit cu materiale necesare inlocuirii unei cantitati suplimentare (cca. 5%) din lungimea totala de parapete montat.
5. Pe lisele parapetilor se monteaza elemente reflectorizante din 6 in 6m astfel:
- pe zona mediana - culoare alba
- pe zona marginala - culoare rosie.
6. Latimea de lucru a parapetului este variabila in functie de tipul acestuia.

NOTE:

1. The drawing shows types of parapets which, depending on the manufacturer, may have any other configuration.
2. The parapet must have technical agreement, certificate regarding the tests performed for establishing the striking resistance according to the requirements of the standard and to the Beneficiary's approval regarding using these types of parapets.
3. The parapets must have the possibility for anti-dazzle devices to be placed.
4. The Contractor must ensure a supply depot with materials necessary for replacing an additional quantity (about 5%) of the total length of placed parapet.
5. Reflecting elements are placed every 6m on the bars of the parapets, as follows:
- on the central reserve white color
- on the marginal area red color.
6. Working with of the guardrail is variable according with the type.

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TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

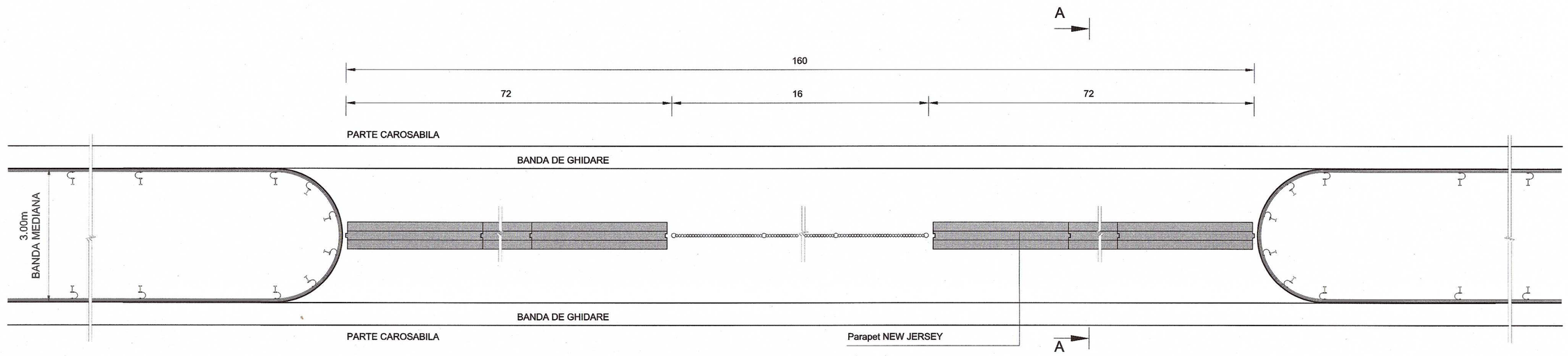
SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

PARAPETE METALIC ZINCAT
ZINC-COATED METALIC GUARDRAIL

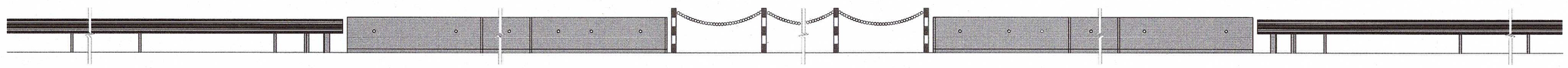
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: - Rev. No.:
Data: Date: September 2011	Scara: Scale:
Cod desen : Drawing number:	3A2-ASF-DRU-DET- 006

ZONA DE TRECERE PESTE BANDA MEDIANA
CROSS-OVER CENTRAL RESERVE

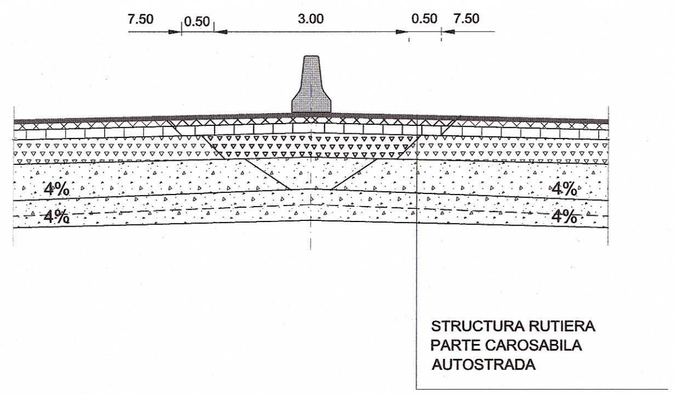
VEDERE IN PLAN / VIEW



ELEVATIE
ELEVATION



SECTIUNE
SECTION



NOTE / NOTES

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COMPANIA NATIONALA DE AUTOSTRAZI SI DRUMURI NATIONALE DIN ROMANIA
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AUTOSTRADA TRANSILVANIA
TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

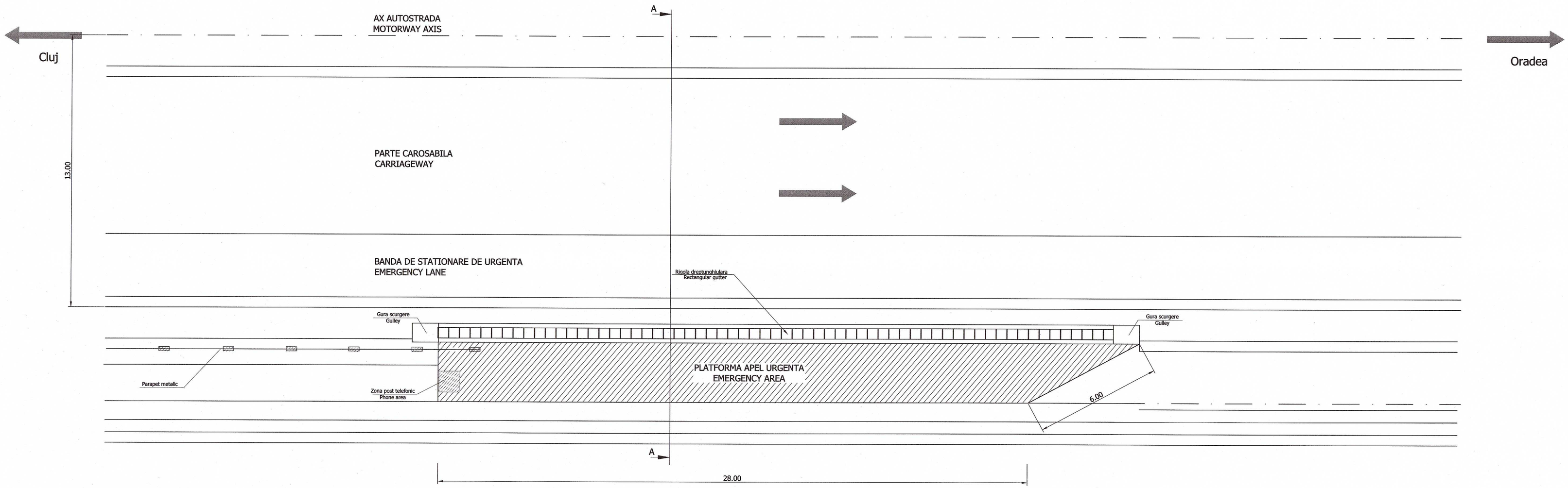
ZONA DE TRECERE PESTE BANDA MEDIANA
CROSS-OVER CENTRAL RESERVE

DIRECTOR PROIECT PROJECT MANAGER:	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: - Rev. No.:
Data: Date: September 2011	Scara: Scale:
Cod desen : Drawing number:	3A2-ASF-DRU-DET- 007

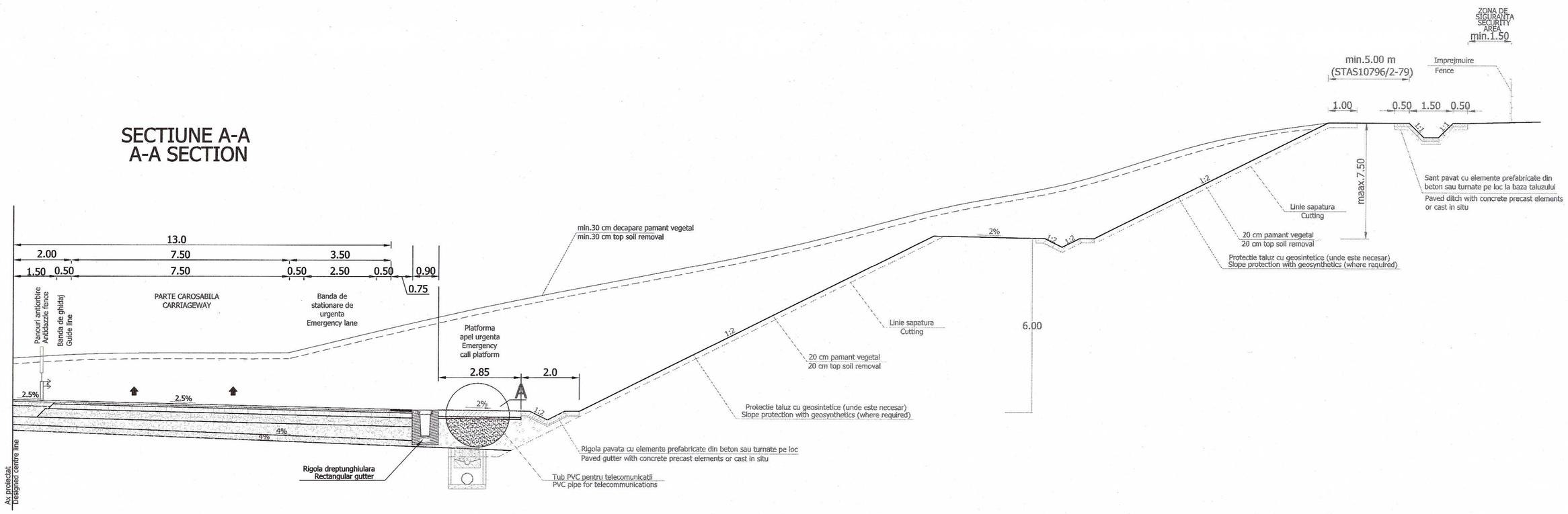
AMENAJARE PLATFORMA PENTRU APEL DE URGENTA
EMERGENCY AREA ARRANGEMENT

Se aplica in profil curent de debelu
Will be applied in cut current profile
Scara/Scale: 1:100

Km 10+240 - stanga/leftside Km 10+920 - dreapta/rightside
Km 12+340 - stanga/leftside Km 13+160 - dreapta/rightside
Km 14+340 - stanga/leftside
Km 18+140 - stanga/leftside Km 19+180 - dreapta/rightside
Km 22+200 - stanga/leftside Km 23+120- dreapta/rightside
Km 24+200 - stanga/leftside

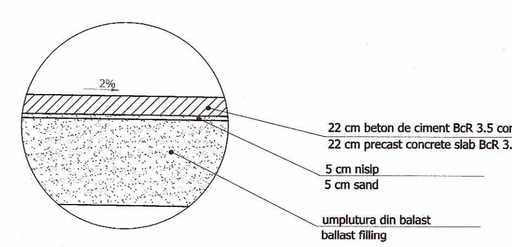


SECTIUNE A-A
A-A SECTION



DETALIUL/DETAIL A

Scara/Scale: 1:50



NOTE / NOTES

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TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: ACTUALIZARE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 9+700 - 25+000

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

AMENAJARE PLATFORMA PENTRU APEL DE URGENTA
EMERGENCY AREA ARRANGEMENT
(in profil curent de debleu)
(in current cut profile)

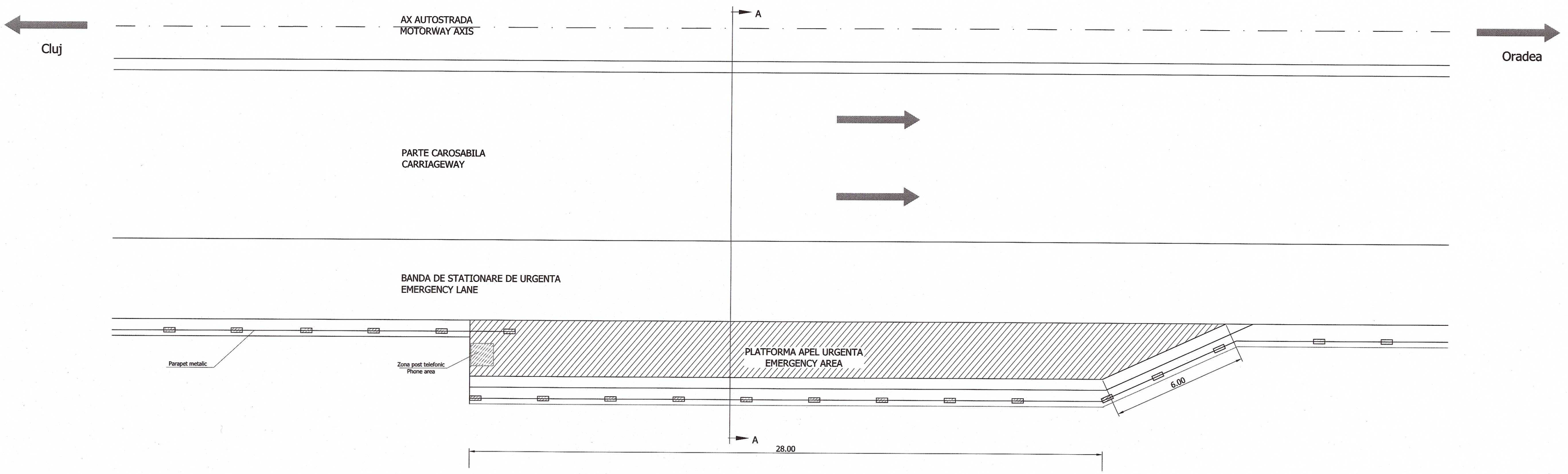
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT DRUMURI ROAD CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	V. Sin
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: - Rev. No.:
Data: Date: September 2011	Scara: Scale: 1:50,1:100
Cod desen : Draving number:	3A2-ASF-DRU-DET-008

AMENAJARE PLATFORMA PENTRU APEL DE URGENTA
EMERGENCY AREA ARRANGEMENT

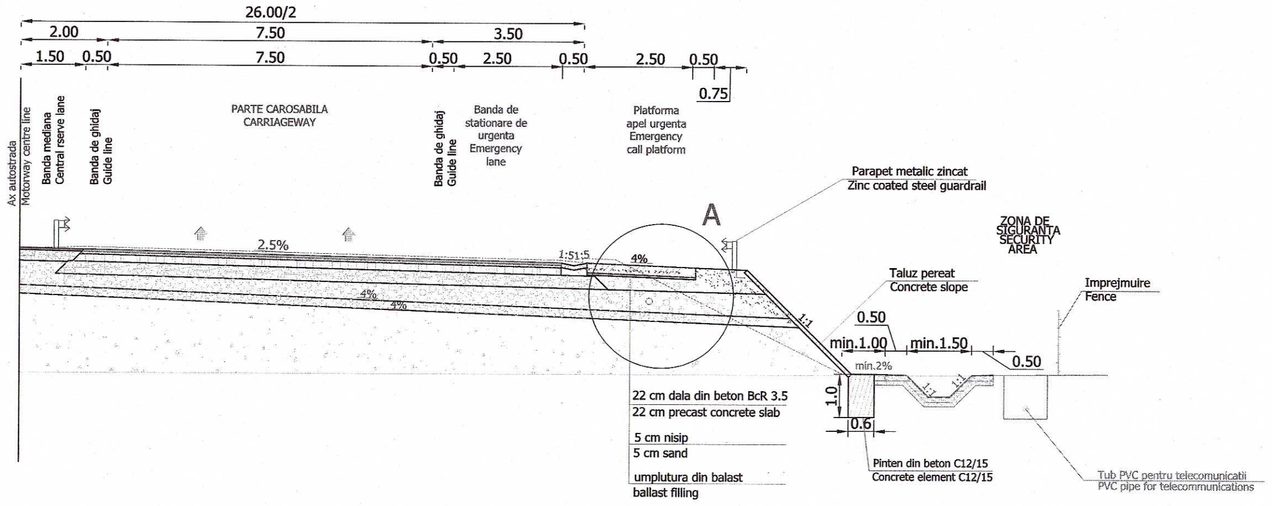
Se aplica in profil curent de rambleu
Will be applied in current fill profile

Km 16+040 - stanga/leftside
Km 19+700 - stanga/leftside

Km 15+100 - dreapta/rightside
Km 17+180 - dreapta/rightside
Km 21+160 - dreapta/rightside
Km 25+140 - dreapta/rightside

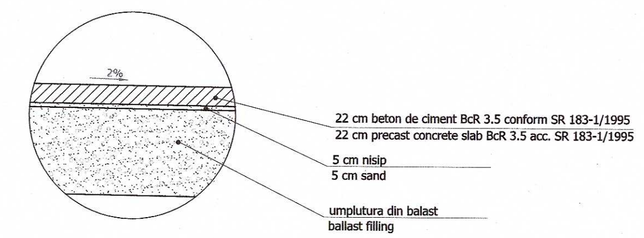


SECTIUNE A-A
A-A SECTION



DETALIUL/DETAIL A

Scara/Scale: 1:50



NOTE / NOTES

BENEFICIAR / CLIENT
COMPANIA NATIONALA DE AUTOSTRAZI SI DRUMURI NATIONALE DIN ROMANIA
NATIONAL COMPANY OF MOTORWAYS AND NATIONAL ROADS IN ROMANIA

PROIECTANT / DESIGNER
SEARCH CORPORATION

AUTOSTRADA TRANSILVANIA
TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI

FAZA: ACTUALIZARE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+000

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

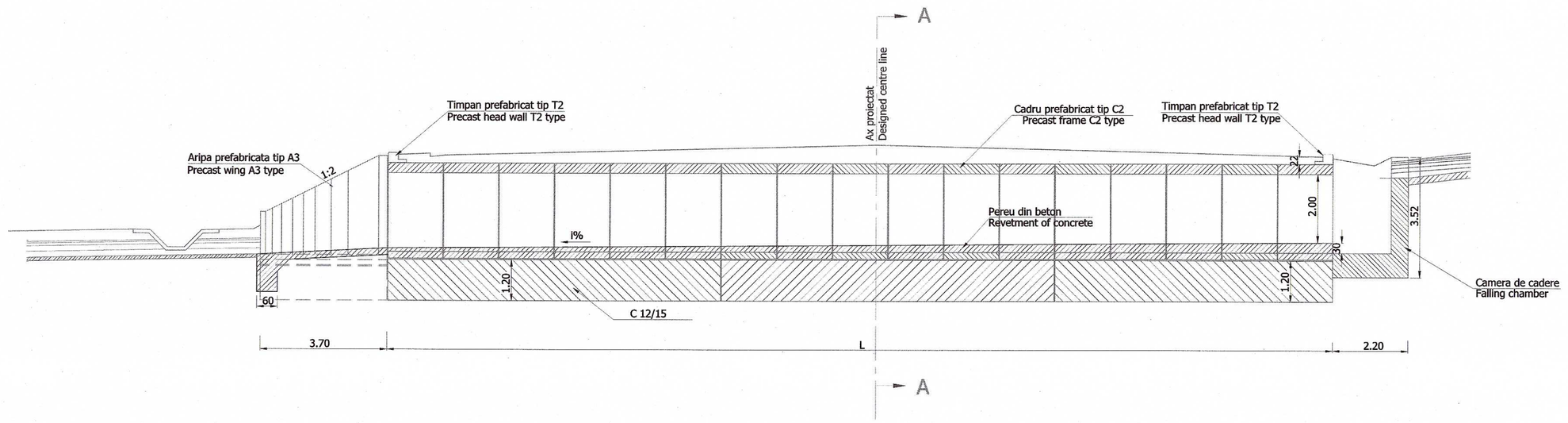
AMENAJARE PLATFORMA PENTRU APEL DE URGENTA
EMERGENCY AREA ARRANGEMENT
(in profil curent de rambleu)
(in current fill profile)

DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT DRUMURI ROAD CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	V. Sin
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:50,1:100
Cod desen : Drawing number:	3A2-ASF-DRU-DET-009

PODETE PE AUTOSTRADA/CULVERTS ON MOTORWAY

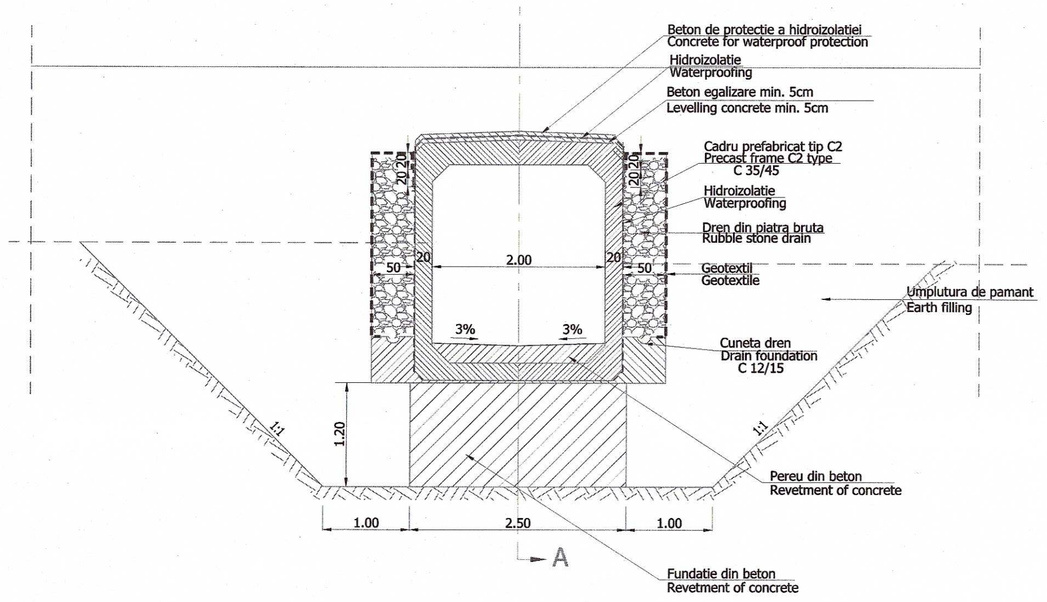
SECTIUNE LONGITUDINALA - LONGITUDINAL SECTION A-A

Scara/Scale.1:100



SECTIUNE / SECTION A - A

Scara/Scale 1:50



Pozitie kilometrica Kilometrical position	L m	Amenajare Arrangement	
		Aval Downstream	Amonte Upstream
Km 10+190	40.50	Aripa Wing	Camera de cadere Falling chamber
Km 10+464	30.78	Aripa Wing	Camera de cadere Falling chamber
Km 10+598	58.32	Aripa Wing	Camera de cadere Falling chamber
Km 10+752	43.74	Aripa Wing	Aripa Wing
Km 15+000	38.88	Sant rectangular de beton/ descarcare in trepte Concrete rectangular ditch/steps	Camera de cadere Falling chamber
Km 15+516	35.64	Aripa Wing	Camera de cadere (3buc) Falling chamber (3pcs)
Km 17+120	37.26	Aripa Wing	Aripa Wing
Km 17+900	38.88	Aripa Wing	Aripa Wing
Km 24+820	37.26	Sant rectangular de beton/ descarcare in trepte Concrete rectangular ditch/steps	Camera de cadere Falling chamber
Km 24+945	53.46	Aripa Wing	Camera de cadere Falling chamber
Km 25+260	37.26	Aripa Wing	Camera de cadere Falling chamber

CARACTERISTICI ELEMENT PREFABRICAT
CHARACTERISTICS OF PRECAST ELEMENT

ELEMENT ELEMENT	BETON CONCRETE	ARMATURA REINFORCEMENT	
C2	C 35/45	BST 500	350 kg/buc 350 kg/pcs
A3			310 kg/buc 310 kg/pcs
T2			30 kg/buc 30 kg/pcs

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SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

PODETE PE AUTOSTRADA
CULVERTS ON MOTORWAY

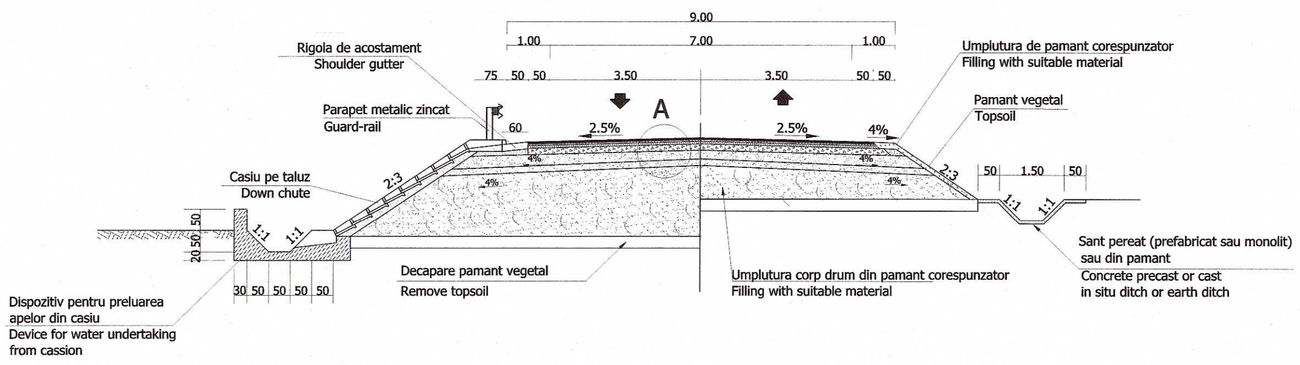
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:100;1:50
Cod desen : Drawing number:	3A2-ASF-DRU-DET-010

DETALII RESTABILIRI DRUMURI DE EXPLOATARE SI VICINALE

PROFIL TRANSVERSAL TIP
TYPICAL CROSS SECTION
CLASA TEHNICA A DRUMULUI / ROAD TECHNICAL CLASS III

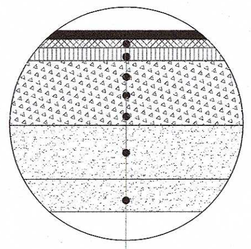
Se aplica pe drumurile nationale (DN)
Will be applied to the natinal roads (DN)
sc. 1:100

$h_{rambleu}>3m$ $h_{rambleu}<3m$



Detaliu A / A Detail

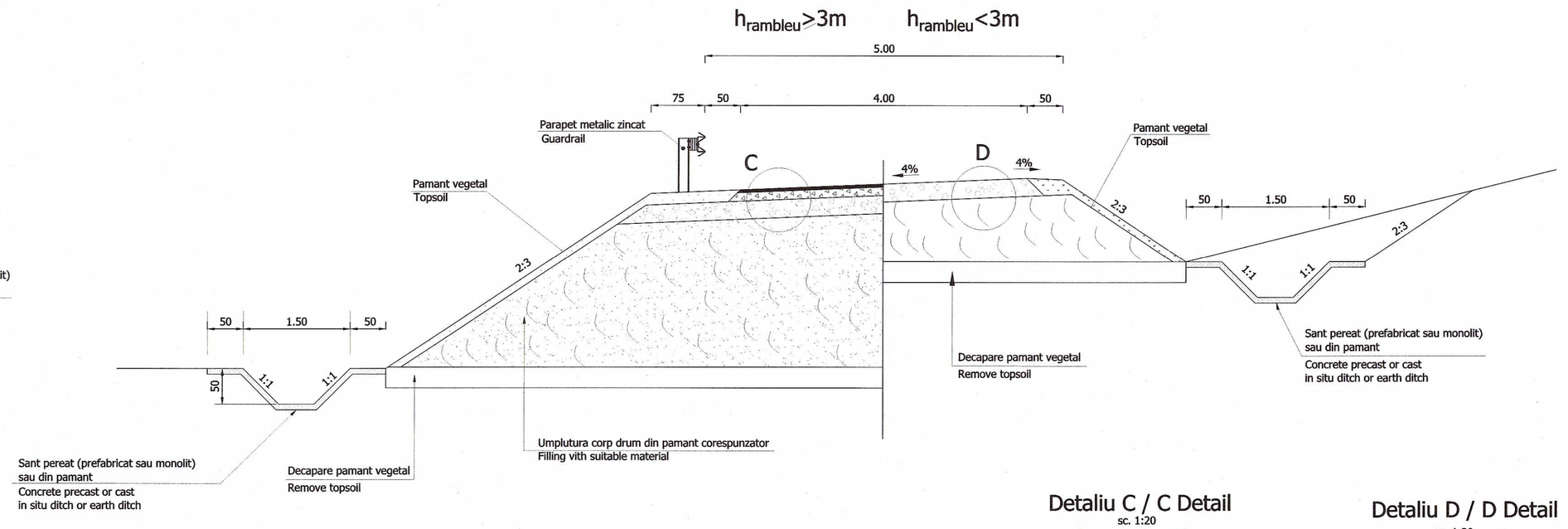
sc. 1:20



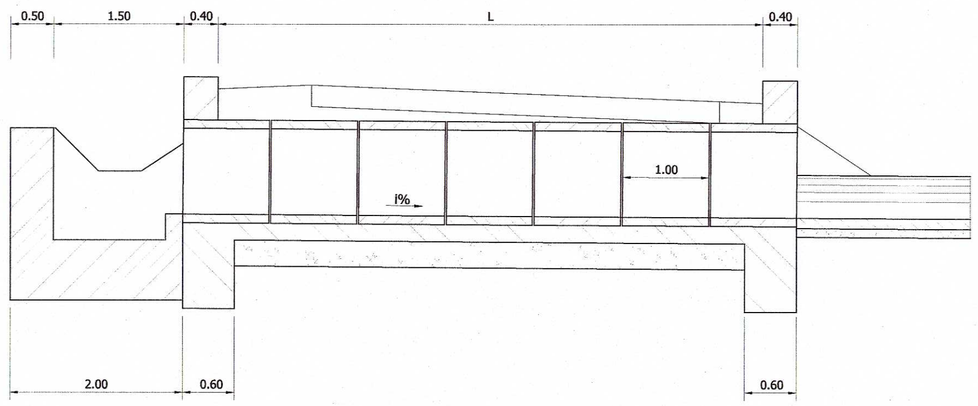
5 cm strat de uzura din beton asfaltic BA16
5 cm asphalt wearing course BA16
6 cm strat de legatura din beton asfaltic deschis BAD25
6 cm asphalt binder course BAD25
8 cm strat de baza din anrobat bituminos AB2
8 cm asphalt base course AB2
20 cm fundatie de piatra sparta
20 cm crushed stone sub-base
20 cm fundatie de balast
20 cm ballast sub-base
15 cm strat de forma-balast
15 cm capping layer-ballast

PROFIL TRANSVERSAL TIP
TYPICAL CROSS SECTION

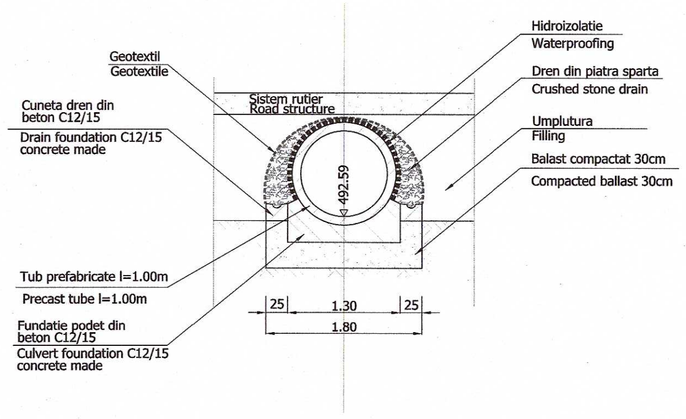
$h_{rambleu}>3m$ $h_{rambleu}<3m$



PODET TUBULAR
PIPE CULVERT



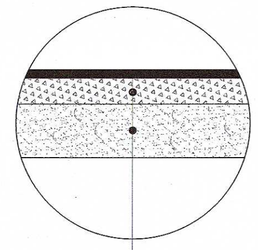
SECTIUNE/SECTION



Detaliu C / C Detail

sc. 1:20

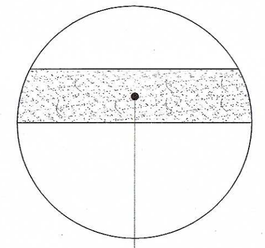
Se aplica pe rampele pasajelor
To be applied on overpasses slope



4 cm strat de uzura din beton asfaltic BA16
4 cm asphalt wearing course BA16
12 cm fundatie de piatra sparta
12 cm crushed sub-base course
25 cm fundatie de balast
25 cm ballast sub-base

Detaliu D / D Detail

sc. 1:20



25 cm balast
25 cm ballast

TABEL PODETE PE RESTABILIRI
RELOCATIONS CULVERTS TABEL

Kilometraj autostrada Motorway kilometers	Lungime restabilire Relocation lenght m	Observatii / Observations	Podet / Culvert				
			Kilometru restabilire Relocation kilometer	Tip Type	Lungime Lenght	Amenajare Arrangement	
						Aval Downstream	Amonte Upstream
Km 9+530	-	Drum existent Existing road	-	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	4.00	-	Camera de cadere Falling chamber
Km 10+080	345.99	-	Km 0+190.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	8.00	-	Camera de cadere Falling chamber
Km 11+500	-	Drum existent Existing road	Km 11+500 (autostrada) Km 11+500 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	4.00	Camera de cadere Falling chamber	Camera de cadere Falling chamber
				Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	4.00	Camera de cadere Falling chamber	Camera de cadere Falling chamber
Km 12+900	231.46	Parapete metalic L=220 m Mettalic guardrail L=220 m	Km 0+030.00	Casetat L=2.00m Precast L=2.00m	6.50	Aripa Wing	Camera de cadere Falling chamber
			Km 0+186.62	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	7.00	-	Camera de cadere Falling chamber
Km 13+400	1137.02	1.Dren longitudinal L=200 m 2.Parapete metalic L=310 m 1.Longitudinal drain L=200 m 2.Mettalic guardrail L=310 m	Km 0+830.00	Casetat L=2.00m Precast L=2.00m	11.00	-	Camera de cadere Falling chamber
Km 13+860	223.20	-	Km 0+020.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	7.00	-	Camera de cadere Falling chamber
Km 14+550	-	Drum existent Existing road	Km 14+550 (autostrada) Km 14+550 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	7.00	-	Camera de cadere Falling chamber
Km 14+660	186.24	-	Km 0+082.50	Tubular ø 1000 Pipe ø 1000	10.00	-	-
Km 15+500	951.69	1.Dren longitudinal L=380 m 2.Parapete metalic L=650 m 3.Traseu pe berma autostrazii 4.Amenajare in trepte 1.Longitudinal drain L=380 m 2.Mettalic guardrail L=650 m 3.Location line on berm motorway 4.Concrete ditch - steps	Km 0+200.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	10.00	-	Camera de cadere Falling chamber
			Km 0+572.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	9.00	-	Camera de cadere Falling chamber
			Km 0+860.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	11.00	-	Camera de cadere Falling chamber
Km 16+940	132.74	-	-	-	-	-	-
Km 17+500	380.00	-	Km 0+060.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	13.00	-	Camera de cadere Falling chamber
		Amenajare in trepte Concrete ditch - steps	Km 0+290.00	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	10.00	-	Camera de cadere Falling chamber
Km 17+560	-	Drum existent Existing road	Km 17+560 (autostrada) Km 17+560 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	5.00	-	Camera de cadere Falling chamber
Km 17+580	-	Drum existent Existing road	Km 17+580 (autostrada) Km 17+580 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	5.00	-	Camera de cadere Falling chamber
Km 18+500	1194.85	1.Parapete L=265 m 2.Km 0+060 podet existent - se executa timpan monolit 3.Fundatie de parapet L=40 m 4.Saltea balast geotextil - latime 3.00m; L= 220 m 5.Rigola carosabila cu parapete L=200 m 6.Zid de sprijin de debleu L=30 m 7.Sant pereat L=500 m 8.Fundatie adancita de parapete din beton L=60 m 1.Guardrail L=265 m 2.Km 0+060 existing culvert - made with monolith headwall 3.Concrete guardrail foundation L=40 m 4.Ballast mattress with geotextile - width 3.00m; L= 220 m 5.Carriageable gutter with guardrail L=200 m 6.Cutting retaining wall L=30 m 7.Paved ditch L=500 m 8.Guardrail concrete dip foundation L=60 m	Km 0+380.00	Casetat L=2.00m Precast L=2.00m	12.00	-	Camera de cadere Falling chamber
			Km 0+640.00	Prefabricat 3.20x5.00 Precast 3.20x5.00	11.00	Aripa Wing	Aripa Wing
Km 18+867	229.82	-	Km 0+069.19	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	7.00	-	Camera de cadere Falling chamber
			Km 0+164.50	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	7.00	-	Camera de cadere Falling chamber

TABEL PODETE PE RESTABILIRI
RELOCATIONS CULVERTS TABEL

Kilometraj autostrada Motorway kilometers	Lungime restabilire Relocation lenght m	Observatii / Observations	Podet / Culvert				
			Kilometru restabilire Relocation kilometer	Tip Type	Lungime Lenght	Amenajare Arrangement	
						Aval Downstream	Amonte Upstream
Km 19+800	183.21	Parapete metalic L=183 m Mettalic guardrail L=183 m	Km 0+080.00	Casetat L=2.00m Precast L=2.00m	9.00	-	-
			Km 0+150.00	Casetat L=2.00m Precast L=2.00m	8.00	-	Camera de cadere Falling chamber
Km 20+320	145.00	-	-	-	-	-	-
Km 20+380	-	Drum existent Existing road	Km 20+380 (autostrada) Km 20+380 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	6.00	-	Camera de cadere Falling chamber
Km 22+000	283.00	-	-	-	-	-	-
Km 22+600	-	Drum existent Existing road	Km 22+600 (autostrada) Km 22+600 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	5.00	-	Camera de cadere Falling chamber
Km 23+820	-	Drum existent Existing road	Km 23+820 (autostrada) Km 23+820 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	6.00	-	Camera de cadere Falling chamber
Km 23+920	-	Drum existent Existing road	Km 23+920 (autostrada) Km 23+920 (motorway)	Tubular ø 1000 cu timpane Pipe ø 1000 with headwall	6.00	-	Camera de cadere Falling chamber
Km 24+000	542.00	-	-	-	-	-	-

NOTE / NOTES

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TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

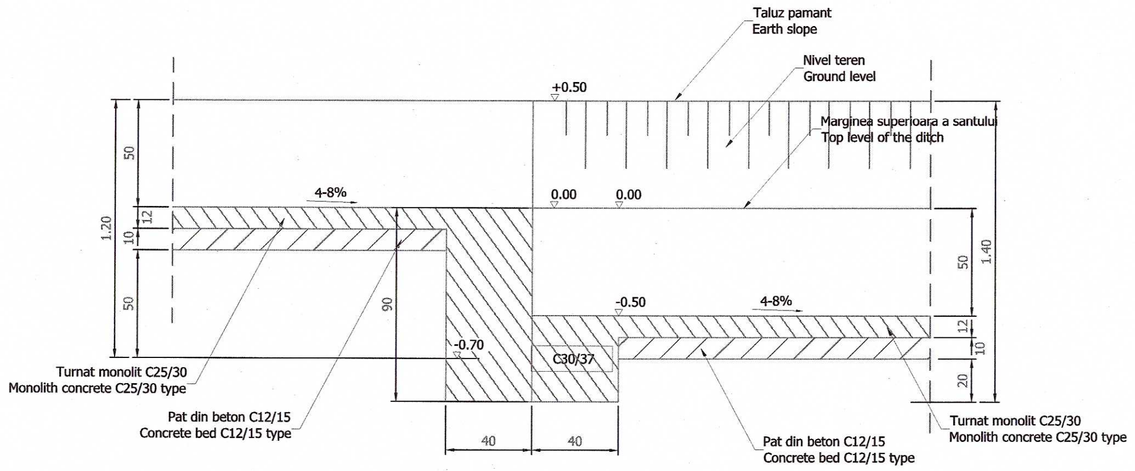
SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

DETALIU DRUMURI DE EXPLOATARE SI VICINALE
DETAIL VICINAL ROADS

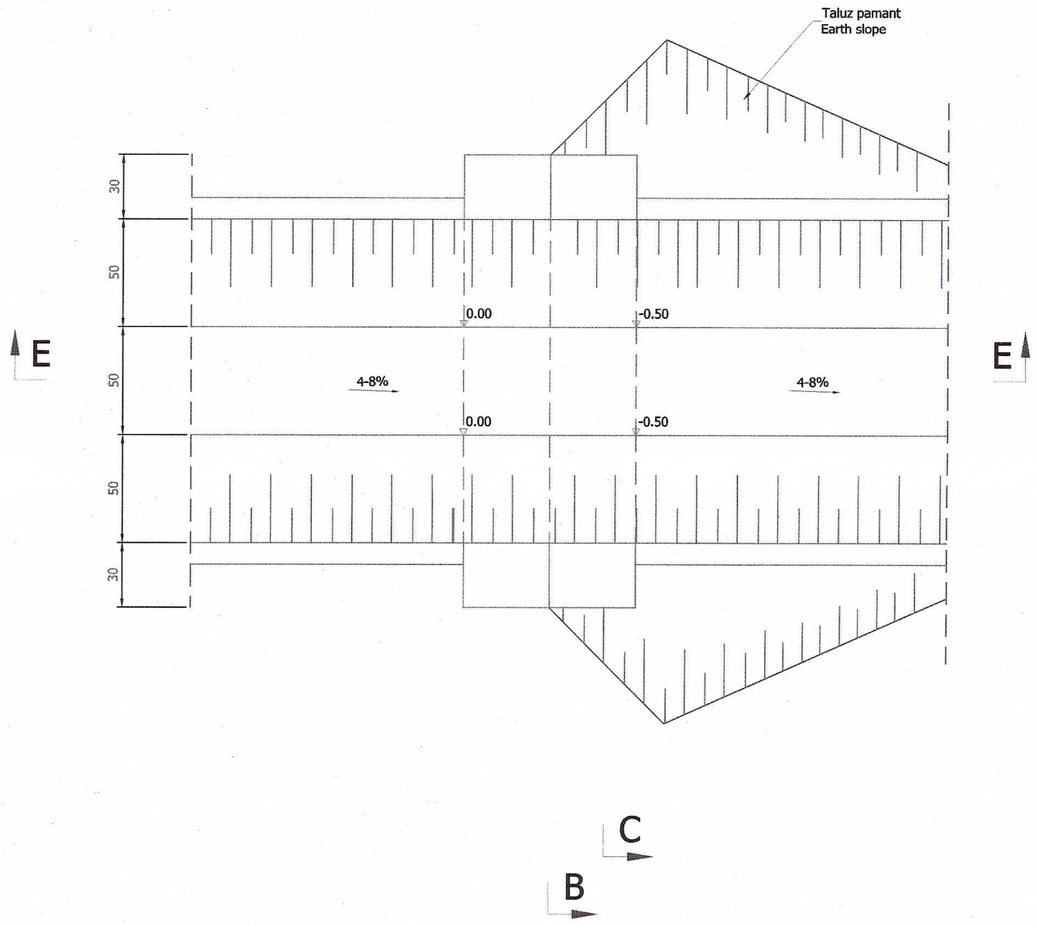
DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: - Rev. No.:
Data: Date: September 2011	Scara: Scale: 1:50;1:20
Cod desen : Drawing number:	3A2-ASF-DRU-DET-011

TREAPTA (H=0.50 m)DIN BETON LA SANTURI DIN ELEMENTE PREFABRICATE
STEP H=0.50 m MADE BY CONCRETE FOR DITCHES MADE OF PRECAST ELEMENTS

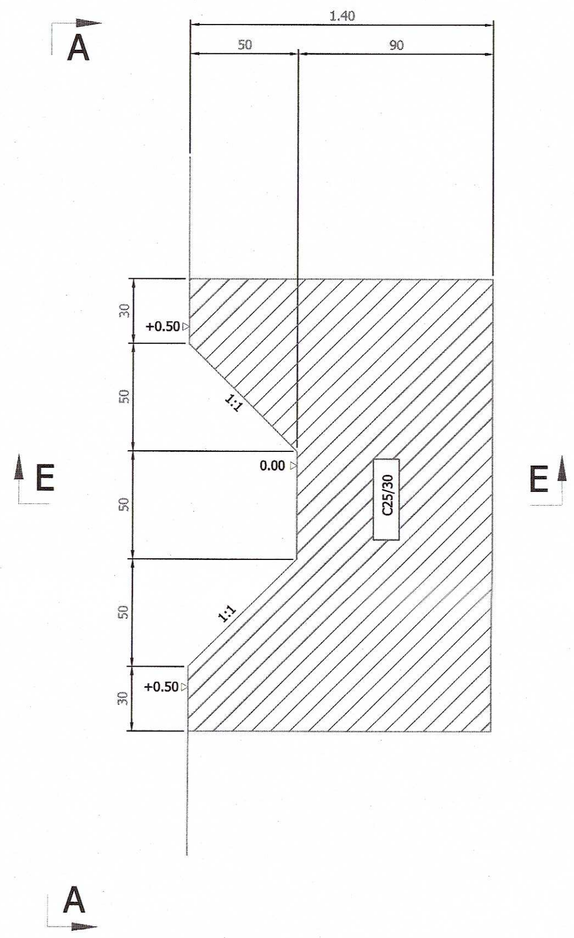
SECTIUNE E - E
SECTION E - E
SCARA 1:20 / SCALE 1:20



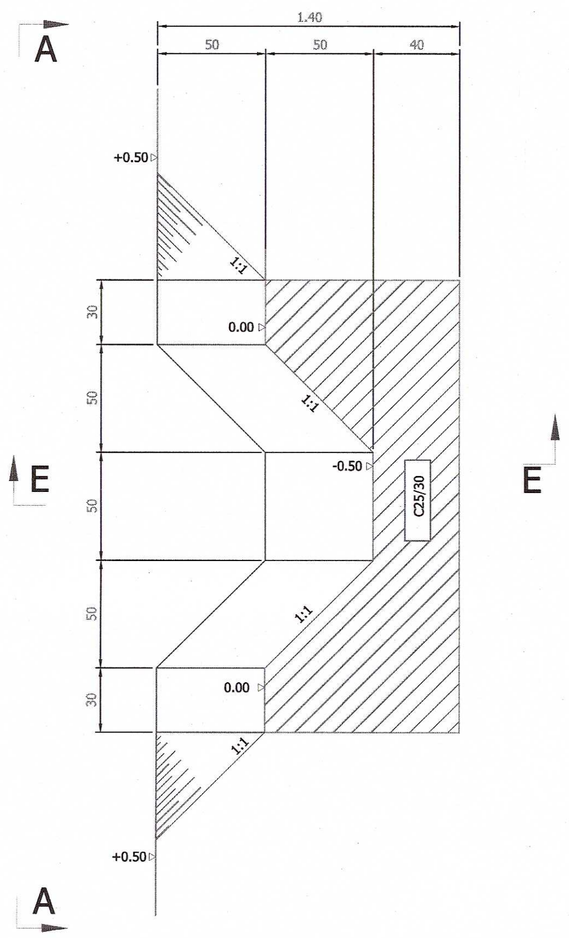
VEDERE A - A
VIEW A - A
SCARA 1:20 / SCALE 1:20



SECTIUNE B - B
SECTION B - B
SCARA 1:20 / SCALE 1:20



SECTIUNE C - C
SECTION C - C
SCARA 1:20 / SCALE 1:20



TABEL APLICABILITATI
APPLICATION

STANGA/LEFT	DREAPTA/RIGHT
km 9+540-km 9+620	km 10+700-km 10+750
km 9+720-km 9+780	km 11+300-km 11+500
km 10+080-km 10+120	km 11+670-km 11+700
km 10+280-km 10+350	km 11+950-km 12+030
km 10+550-km 10+570	km 12+170-km 13+140
km 10+750-km 11+010	km 13+680-km 13+830
km 11+060-km 11+120	km 14+000-km 14+050
km 11+170-km 11+340	km 14+200-km 14+250
km 11+460-km 11+540	km 14+370-km 14+480
km 11+680-km 11+720	km 14+670-km 14+800
km 11+890-km 12+040	km 14+910-km 14+990
km 12+210-km 12+380	km 15+000-km 15+050
km 12+520-km 12+550	km 16+080-km 16+150
km 12+740-km 13+640	km 16+310-km 17+580
km 14+750-km 14+830	km 17+890-km 18+300
km 15+000-km 15+140	km 20+390-km 20+620
km 15+580-km 15+660	km 20+730-km 20+880
km 15+870-km 16+800	km 21+020-km 21+150
km 16+930-km 17+220	km 22+600-km 22+700
km 17+290-km 17+750	km 22+810-km 22+850
km 17+820-km 17+870	km 24+070-km 24+200
km 18+150-km 18+200	km 25+440-km 25+470
km 18+940-km 18+970	
km 20+410-km 21+160	
km 21+380-km 21+530	
km 22+860-km 22+950	
km 23+270-km 23+640	
km 25+460-km 25+500	

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FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

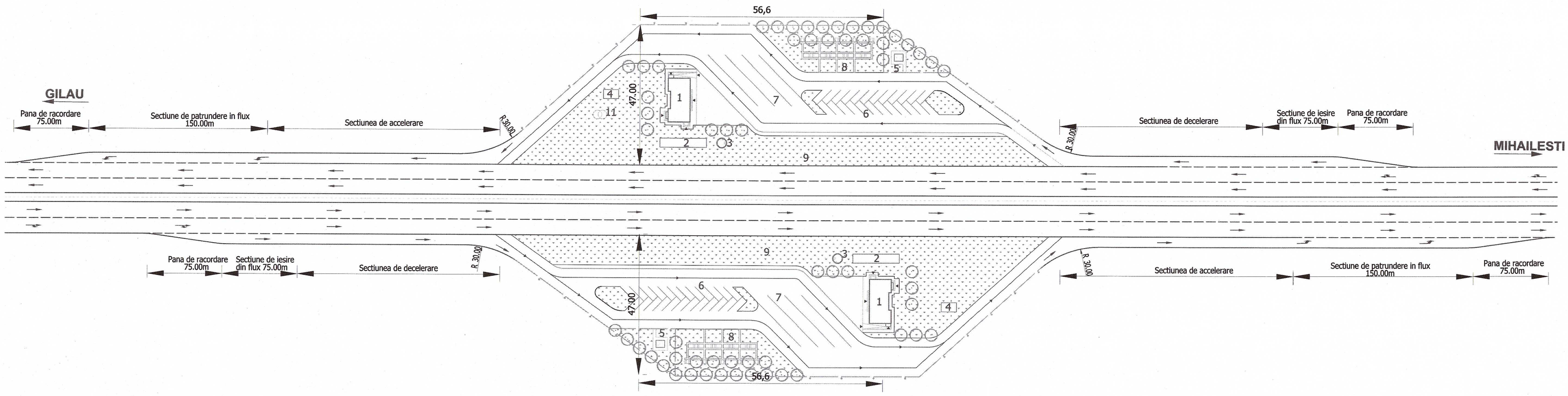
TRONSON/SUBSECTION 3 A 2
KM 9+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

TREAPTA (H=0.50 m)DIN BETON MONOLIT (C25/30) SAU PREFABRICAT (C30/37) LA SANTURI DIN ELEMENTE PREFABRICATE
STEP H=0.50 m MADE BY MONOLIT CONCRETE (C25/30 TYPE) OR CONCRETE PRECAST ELEMENTS (C30/37 TYPE) FOR DITCHES MADE OF PRECAST ELEMENTS

DIRECTOR PROIECT / PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT / DESIGNER	I. Pana
DESENAT / DRAWNER	M. Chesaru
VERIFICAT INTERN / INTERNAL CHECKER	D. Fodor
Contract Nr. / Contract No.	Revizia Nr.: / Rev. No.: -
Data: / Date: September 2011	Scara: / Scale: 1:20
Cod desen : / Drawing number:	3A2-ASF-DRU-DET- 012

AMENAJARE PARCARE DE SCURTA DURATA
km 17+780
ARRANGEMENT OF SHORT TERM PARKING
km 17+780



LEGENDA:

1. WC. PUBLIC
2. STATIE EPURARE MECANO - BIOLOGICA
3. STATIE POMPARE APE UZATE
4. SEPARATOR GRASIMI
5. PUT FORAT SI HIDROFOR
6. PARCARE AUTOTURISME
7. PARCARE AUTOBUZE
8. SPATII AGREMENT
9. SPATII PROTECTIE
10. IMPREJMUIRE
11. POST TRANSFORMARE AERIAN

NOTE / NOTES

BENEFICIAR / CLIENT
COMPANIA NATIONALA DE AUTOSTRAZI SI DRUMURI NATIONALE DIN ROMANIA
NATIONAL COMPANY OF MOTORWAYS AND NATIONAL ROADS IN ROMANIA

PROIECTANT / DESIGNER
SEARCH CORPORATION

AUTOSTRADA TRANSILVANIA
TRANSILVANIA MOTORWAY
SECTOR / SECTION 3A
CLUJ VEST (GILAU)- MIHAIESTI
FAZA: REVIZUIRE STUDIU DE FEZABILITATE
PROIECT ILUSTRATIV

TRONSON/SUBSECTION 3 A 2
KM 8+700 - 25+500

SPECIALITATE - LUCRARI DE DRUM
DISCIPLINE - ROAD WORKS

AMENAJARE PARCARE DE SCURTA DURATA
KM 17+780
ARRANGEMENT OF SHORT TERM PARKING
KM 17+780

DIRECTOR PROIECT PROJECT MANAGER	F. Raducu
SEF PROIECT SCURGEREA APELOR/INTERNAL DRAINAGE CHIEF PROJECT	I. Pana
PROIECTAT DESIGNER	I. Pana
DESENAT DRAWNER	M. Chesaru
VERIFICAT INTERN INTERNAL CHECKER	D. Fodor
Contract Nr. Contract No.	Revizia Nr.: Rev. No.: -
Data: Date: September 2011	Scara: Scale: 1:500
Cod desen : Drawing number:	3A2-ASF-DRU-DET-013