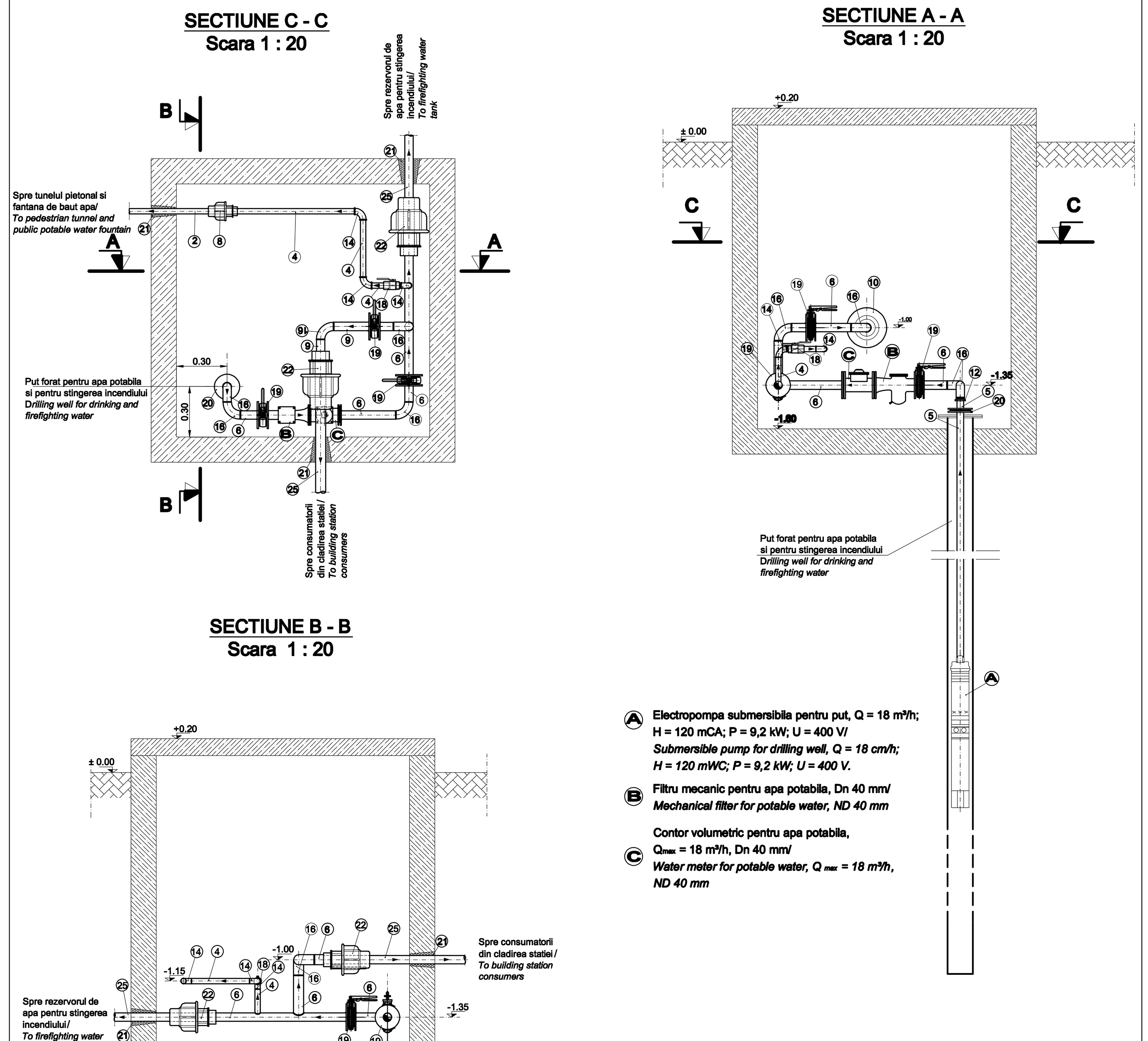
CABINA PUT FORAT/
DRILLING WELL CABIN

SECTIUNE C - C
Scara 1 : 20

SECTIUNE A - A
Scara 1 : 20

SECTIUNE B - B
Scara 1 : 20



A Electropompa submersibila pentru put, Q = 18 m³/h; H = 120 mCA; P = 9,2 kW; U = 400 V/
Submersible pump for drilling well, Q = 18 cm/h; H = 120 mWC; P = 9,2 kW; U = 400 V.

B Filtru mecanic pentru apa potabila, Dn 40 mm/
Mechanical filter for potable water, ND 40 mm

C Contor volumetric pentru apa potabila, Q_{max} = 18 m³/h, Dn 40 mm/
Water meter for potable water, Q_{max} = 18 m³/h, ND 40 mm

ATENTIE :

Imbinarile fixe la teava zincata (la flanse) se vor executa **numai prin brazare** - **nu** prin sudura electrica sau oxiacetilenica cu electrozi din otel

ATTENTION :

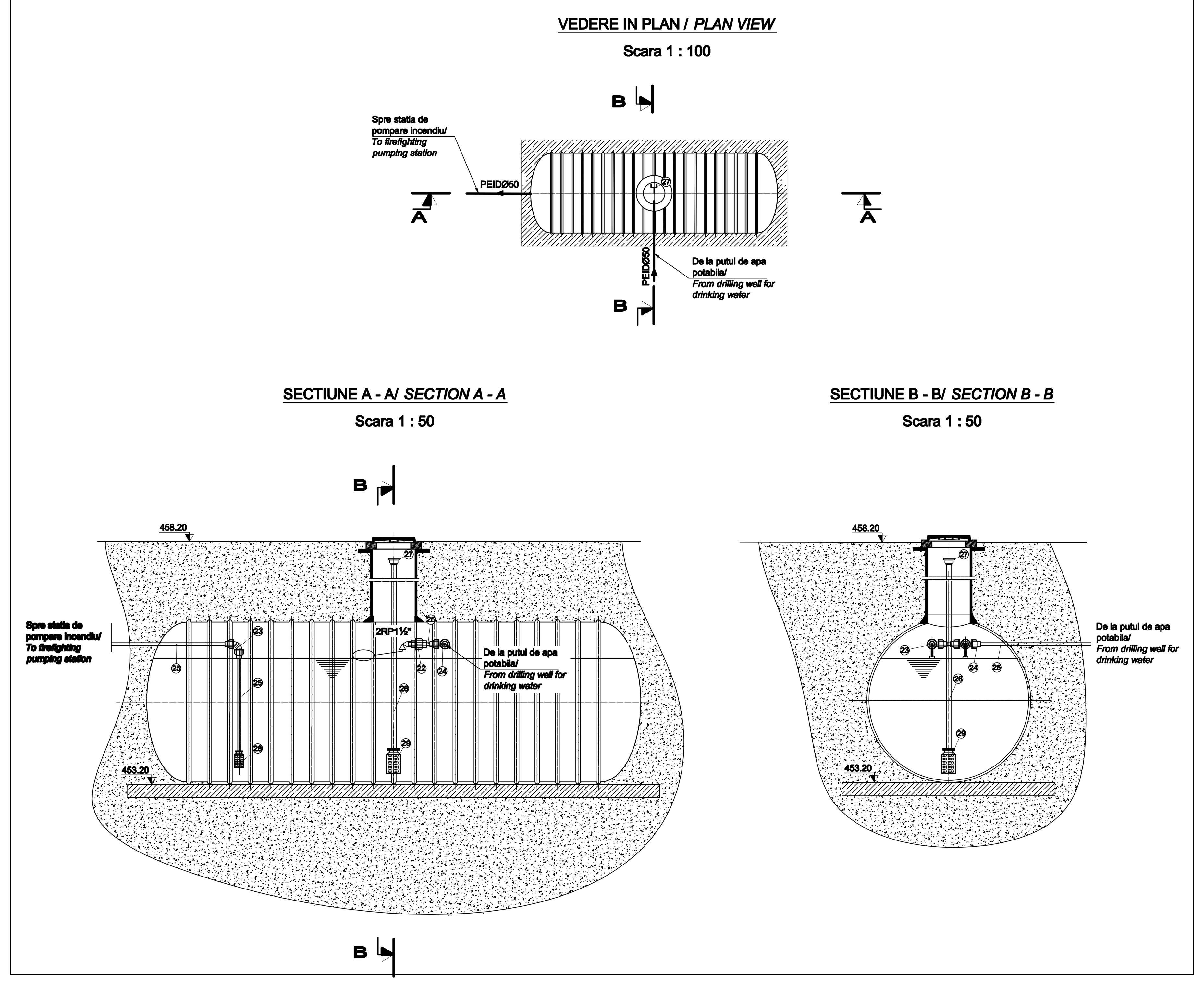
*The fixed joints for the zinc-plated pipe (for flanges) will be **only carried out by brazing** - **not** by electric or oxyacetylene welding with steel electrodes.*

REZERVOR APA PENTRU STINGEREA INCENDIULUI/
FIREFIGHTING WATER TANK

VEDERE IN PLAN / *PLAN VIEW*
Scara 1 : 100

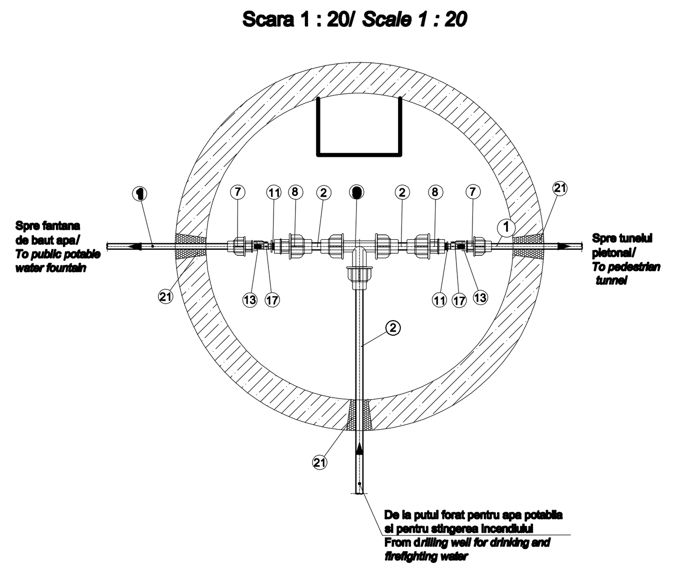
SECTIUNE A - A/ *SECTION A - A*
Scara 1 : 50

SECTIUNE B - B/ *SECTION B - B*
Scara 1 : 50



CAMIN VANE CV1/ VALVE CHAMBER CV1

Scara 1 : 20/ *Scale 1 : 20*

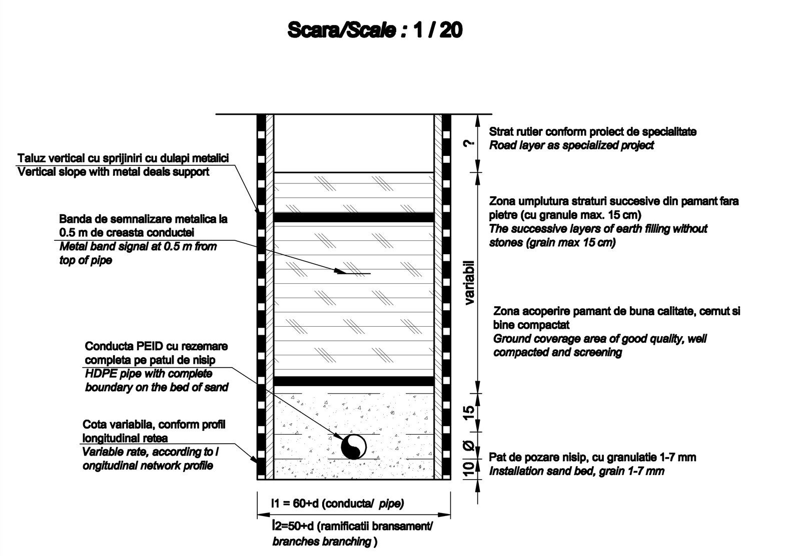


LEGENDA / *LEGEND*:

1. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 25 x 2,0 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 25 x 2,0 mm
2. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 32 x 2,0 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 32 x 2,0 mm
3. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 63 x 3,6 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 63 x 3,6 mm
4. Teava de otel, zincata, Ø 1"/
Zinc-plated steel pipe, Ø 1"
5. Teava de otel, zincata, Ø1 ½"/
Zinc-plated steel pipe, Ø 1 ½"
6. Teava de otel, zincata, Ø 2"/
Zinc-plated steel pipe, Ø 2"
7. Racord compresiune de polietilena PEID, tip F1Ø 25 mm/
High-Density Polyethylene female adaptor, for water, Ø 25 mm
8. Racord compresiune de polietilena PEID, tip F1Ø 32 mm/
High-Density Polyethylene female adaptor, for water, Ø 32 mm
9. Teu compresiune egal, de polietilena PEID, Ø 32 mm/
High-Density Polyethylene tee, for water, Ø 32 mm
10. Racord compresiune de polietilena PEID, tip F1Ø 63 mm/
High-Density Polyethylene female adaptor, for water, Ø 63 mm
11. Reductie din alama tip FE - FI, Ø 1" - ¾"/
Straight reducing nipple male, Ø 1" - ¾"
12. Reductie din alama tip FE - FI, Ø 2" - 1 ½"/
Straight reducing nipple male, Ø 2" - 1 ½"
13. Niplu egal, din alama, Ø ¾"/
Straight male, Ø ¾"
14. Cot cu filet, din alama, la 90 ° tip FI - FI, Ø 1"/
Elbow female, IF - IF type, Ø 1"
15. Cot cu filet, din alama, la 90 ° tip FI - FI, Ø 1½"/
Elbow female, from brass, IF - IF type, Ø 1 ½"
16. Cot cu filet, din alama, la 90 ° tip FI - FI, Ø 2"/
Elbow female, from brass, IF - IF type, Ø 2"
17. Robinet de apa, tip FI - FE, cu sfera si levier de actionare, Ø ¾"/
Full bore ball, female - male, with handle, Ø ¾"
18. Robinet de apa, tip FI - FE, cu sfera si levier de actionare, Ø 1"/
Full bore ball, female - male, with handle, Ø 1"
19. Robinet cu clapa fluture centrica, Dn 50 pn 10 kgf/cm² /
Butterfly cock,ND 50, np 10 kg/sm
20. Flanse plate Dn 40, pn 6 kgf/cm²/
Flanges, ND 40, np 6 kgf/sm.
21. Etansare gol, cu spuma poliuretanica
Hole sealing with polyurethane foam.
22. Racord compresiune de polietilena PEID, tip F1Ø 50 mm/
High-Density Polyethylene female adaptor, for water, Ø 50 mm
23. Cot la 90° de compresiune din polietilena PEID, tip F1Ø 50 mm/
High-Density Polyethylene elbow adaptor, for water, Ø 50 mm
24. Teu compresiune egal, de polietilena PEID, Ø 50 mm/
High-Density Polyethylene tee, for water, Ø 50 mm
25. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 50 x 2,9 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 50 x 2,9 mm
26. Teava de otel, zincata, Ø 4"/
Zinc-plated steel pipe, Ø 4"
27. Racord incendiu, suprateran, Dn 100 mm/
Firefighting branch, above ground , ND 100 mm
28. Sorb simplu cu flanse, Dn 50 mm/
Suction basket, with flange, ND 50 m
29. Sorb simplu cu flanse, Dn 100 mm/
Suction basket, with flange, ND 100 mm

DETALIU POZARE CONDUCTA PEID IN TRANSEE
HDPE PIPE LOCATION DETAIL IN THE TRENCHES

Scara/Scale : 1 / 20



NOTA / *NOTE:*

* Zona de acoperire si patul de pozare sunt compactate la aproximativ 91% PROCTOR NORMAL, STAS 2914/97.
* In teren macroporic, conducta se va poza pe un pat de umplutura de 10 cm de pamant selectionat si bine compactat.

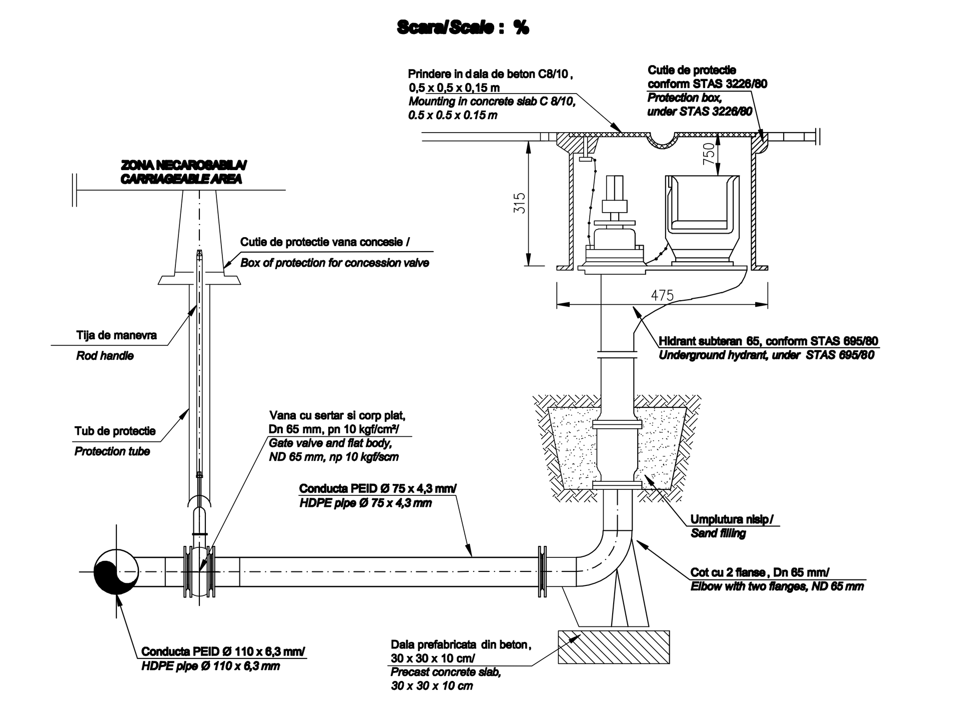
l_1 = latime sant conducta
l_2 = latime sant ramificatii bransamente
Ø = diametru conducta sau ramificatie bransament

* *Coverage and laying bed will be compacted about 91% NORMAL PROCTOR, STAS 2914/97.*
* *Macroporous field, the pipeline will be sit on a bed of 10 cm of earth filling and well compacted selected.*

l_1 = pipeline trench width
l_2 = trench width branching ramifications
Ø = diameter pipe or branch ramification

DETALIU RACORD HIDRANT SUBTERAN/
UNDERGROUND HYDRANT BRANCH DETAIL

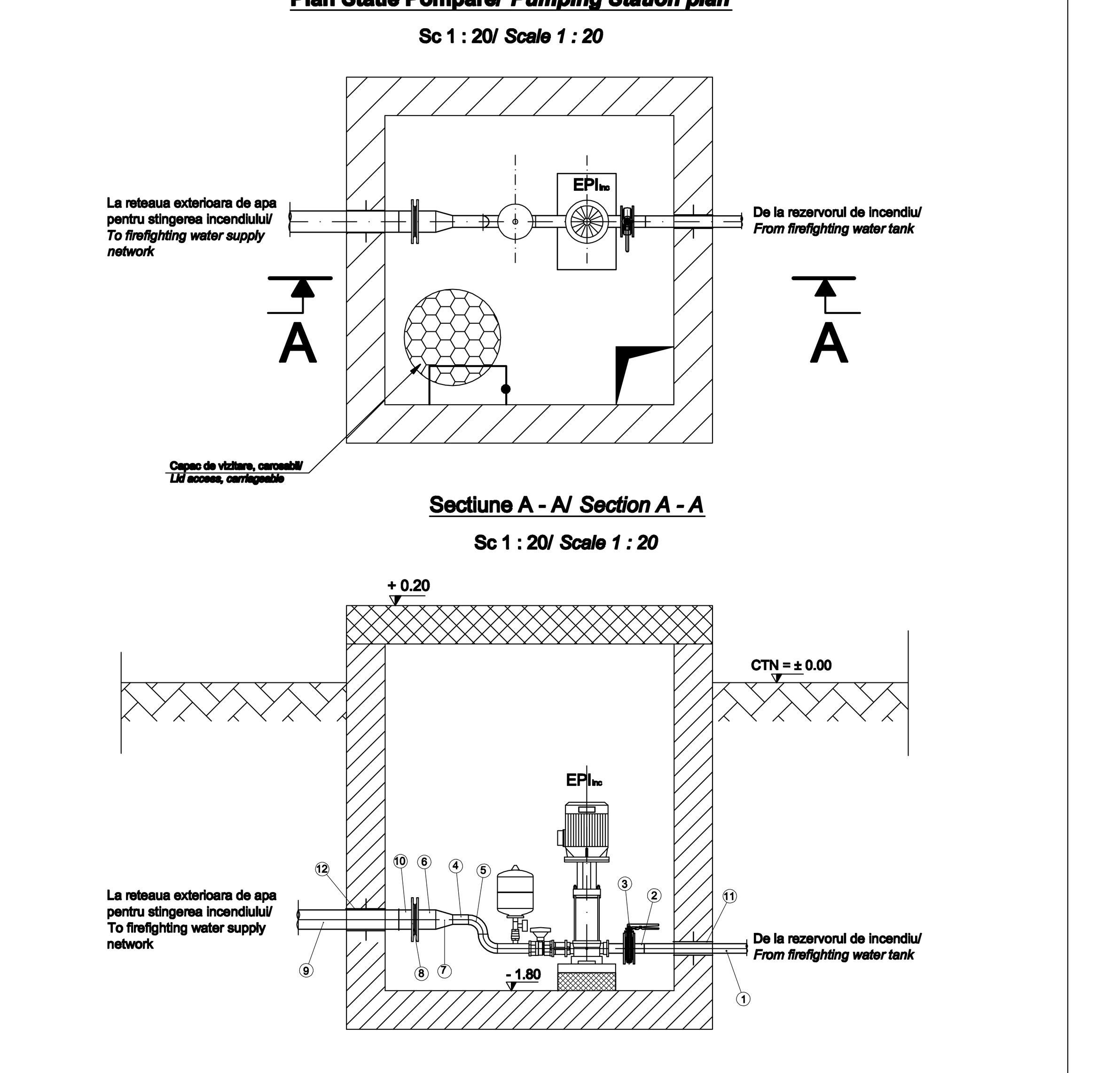
Scara/Scale : %



Plan Statie Pompare/ *Pumping Station plan*

Sc 1 : 20/ *Scale 1 : 20*

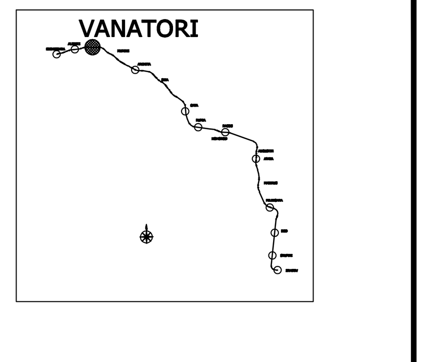
Sectiune A - A/ *Section A - A*
Sc 1 : 20/ *Scale 1 : 20*



LEGENDA / *LEGEND*:

1. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 50 x 2,9 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 50 x 2,9 mm
2. Capat flansa pentru teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 50 x 2,9 mm/
End flange for High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 50 x 2,9 mm
3. Robinet cu clapa fluture centrica, Dn 50 pn 10 kgf/cm² /
Butterfly cock, ND 50, np 10 kg/sm
4. Teava de otel, laminata Ø 60 x 3,5 mm/
Rolled steel pipe, Ø 60 x 3,5 mm
5. Cot la 90°, din teava de otel laminata, Ø 60 x 3,8 mm/
Elbow at 90°, from rolled steel pipe, Ø 60 x 3,8 mm
6. Teava de otel, laminata Ø 114 x 3,6 mm/
Rolled steel pipe, Ø 114 x 3,6 mm
7. Reductie din teava de otel, Ø 114/60 mm/
Reduction of steel pipe, Ø 114/60 mm
8. Pereche de flanse din otel (plata+libera pe teava), Dn 100, pn 6 kgf/cm²/
Pair of flanges on the steel pipe (flat+free) - joined, ND 100, pn 6 kgf/cm²
9. Teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 110 x 6,3 mm/
High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 110 x 6,3 mm
10. Capat flansa pentru teava de polietilena PEID, tip PE80, pn 6, SDR 17.6, Ø 110 x 6,3 mm/
End flange for High-Density Weldable Polyethylene pipe, for water, PE80 type,SDR 17.6, Ø 110 x 6,3 mm
11. Piesa de trecere etansa prin peretii caminelor de vane, in spatii umede, Ø 60 mm/
Transition piece seal the valve manholes walls in wet areas, Ø 60 mm
12. Piesa de trecere etansa prin peretii caminelor de vane, in spatii umede, Ø 114 mm/
Transition piece seal the valve manholes walls in wet areas, Ø 114 mm

EPI$_{inc}$ Electropompa verticala de incendiu, Q = 18 m ³/h; H = 29 mCA
Vertical electrical pump for firefighting, Q = 18 m ³/h; H = 29 mWC



NOTA :

- Se va consulta impreuna cu planul de situatie al retelelor exterioare de apa potabila, canalizare apa uzata menajera si pluviala.
- Orice modificare a proiectului fara avizul proiectantului de specialitate, va cadea in responsabilitatea beneficiarului, proiectantul nemaifiind responsabil de functionarea deficienta a instalatiilor prevazute in proiect.

NOTE :

- *This drawing will be consulting with the location plan for water supply, domestic wastewater and rainwater sewerage networks.*
- *Any change to the project without the advice of professional designer, will fall into responsabilities of the beneficiary, the designer no longer responsible for malfunctioning facilities specified in the project.*

EXECUTAREA LUCRARILOR DE MONTAJ A RETELEI DE ALIMENTARE CU APA POTABILA SI DE INCENDIU SE VA FACE CU RESPECTAREA PRESCRIPTIILOR DIN CAIETULUI DE SARCINI SPECIFIC ACESTUI TIP DE LUCRARI.

THE EXECUTION OF THE FIXING WORKS FOR POTABLE AND FIREFIGHTING WATER SUPPLY NETWORKS WILL BE CARRIED OUT ACCORDING TO THE PROVISIONS OF THE TECHNICAL SPECIFICATIONS THAT ARE INTENDED FOR THIS TYPE OF WORKS.

* CATEGORIA DE IMPORTANTA "C" NORMALA, CALITATEA LUCRARILOR ASIGURANDU-SE DUPA MODELUL 3.
* *IMPORTANCE CATEGORY - NORMAL "C", THE WORK QUALITY WILL COMPLY WITH MODEL 3.*

* CERINTA DE CALITATE A EXIGENTELOR ESENTIALE ESTE Is (DIN H.G. 925/95).
* *THE QUALITY REQUIREMENT FOR ESSENTIAL DEMANDS IS Is (OF H.G. 925/95)*

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

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

ITALFERR
GRUPPO FERROVIE DELLO STATO
Joint Venture leader

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / CONSULTANT			Data Date	Semnătură Signature
Aprobat Approved	Şef proiect Project manager	R. Liuzza	DEC. 2011	
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli	DEC. 2011	
Verificat Checked	Expert Verificator Verifier Expert	Giuseppe Fioravanti	DEC. 2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	DEC. 2011	
Întocmit Elaborated	Proiectant Designer	Duta Florian	DEC. 2011	

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h, Tronsonul : Braşov - Sighişoara

Rehabilitation of the railway line Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h, Section : Braşov - Sighişoara

Proiect/Project *2004/RO/16/P/PA/003*

Faza / Phase: D.E. / E.D.

Denumire desen / Drawing Title : STATIA C.F. VANATORI. RETEA DE ALIMENTARE CU APA IN INCINTA - DETALII MONTAJ CONDUCTE DISTRIBUTIE APA, UTILAJE AFERENTE SI ACCESORII/ *VANATORI RAILWAY STATION. INSIDE WATER SUPPLY NETWORK - PIPELINING DETAILS WATER DISTRIBUTION, RELATED EQUIPMENTS AND ACCESSORIES.*

Codificare / Codification System	Scara / Scale 1 : 50	LOT / LOT	Nr. / No 01 / 01

E A 5 1 | 0 1 | E | 1 7 | B B | I S | 0 0 | 8 | 1 | 0 4 1 | 1

1.892 x 594 mm