

Legend/Legenda:

- Ground line / Linia terenului
- Reference pipe / Conducta de referinta
- Bottom trench line / Linie radier sant
- Underground water line / Linia apei subterane
- Undercrossing in open trench without protecting case / Subtraversare in sant deschis fara carcasa de protectie
- Undercrossing with protecting tube / Subtraversare cu carcasa de protectie
- Overcrossing in open trench without protecting case / Supratraversare in canal deschis fara carcasa de protectie.

Masiv ancoraj de presiune / Pressure concrete blockMasiv ancoraj de panta / Slope concrete blockMasiv ancoraj de directie / Direction concrete blockForaj vertical / Vertical drillCamin de rupere de panta / Slope pitCamin de aerisire / Vent pit

LONGITUDINAL PROFILE/
PROFIL LONGITUDINAL
HORIZONTAL SCALE/ SCARA ORIZONTALA 1:1000
VERTICAL SCALE/ SCARA VERTICALA 1:100

C.R.=440.00
R.L.=440.00

PIKET / PICHET		N100	N101	N102	N103	N104	N105	N106	N107	N108	N109	N110	N111	N112	N113	N114	N115	N116	N117																						
KM HM		○ hm9				○ km9			○ hm1		○ hm2			○ hm3			○ hm4		○ hm5																						
EXISTING HEIGHTS / INALTIMI EXISTENTE [m.a.s.l.]		454.78	454.31	454.06	454.02	453.99	453.02	452.26	451.39	450.87	449.85	449.94	450.29	449.32	449.16	448.82	448.09	447.70	447.40																						
PIPE AXIS / COTA IN AXUL CONDUCTEI [m.a.s.l.]		454.27	453.96	452.84	452.75	452.46	451.57	450.15	450.14	449.80	448.60	448.57	448.34	448.07	447.91	447.57	446.83	446.45	446.15																						
INVERT DEPTH / ACOPERIREA CONDUCTEI [m]		1.26	1.00	0.97	1.02	1.29	1.20	1.86	1.00	1.02	1.00	1.22	1.70	1.00	1.00	1.00	1.01	1.00	1.00																						
TRENCH BOTTOM ELEVATION / COTA TRANSEULUI [m.a.s.l.]		452.87	452.86	452.44	452.35	452.05	451.17	449.75	449.74	449.20	448.20	448.07	447.94	447.67	447.51	447.17	446.43	446.05	445.75																						
TRENCH DEPTH / ADANCIMEA TRANSEULUI [m]		1.91	1.95	1.92	1.97	1.94	1.85	2.51	1.95	1.97	1.95	1.97	2.35	1.95	1.95	1.95	1.96	1.95	1.95																						
PARTIAL DISTANCES / DISTANTE PARTIALE [m]			12.42	14.72	6.78	20.41		60.00		60.00		15.40	15.35	33.89	17.50	37.60		52.37	27.05	41.90	99.78																				
CUMULATED DISTANCE / DISTANTA CUMULATA [km]		5+888.64	5+901.05	5+915.77	5+922.55	5+942.96	6+002.96	6+032.96	6+099.81	6+148.07	6+206.07	6+223.47	6+238.82	6+272.71	6+290.21	6+327.81	6+380.18	6+407.23	6+448.12																						
EXISTENTS GRADIENT IN LENGTH / PANTA IN LUNGIME [%]		1.73				1.46		0.03		1.12	1.67	0.85	0.86	0.78		0.91		1.41	0.72	1.61																					
WALL THK. [mm] PIPE MATERIAL / GROSIME DE PERETE [mm] SI MATERIALUL CONDUCTEI		PE1D, SDR41 conform SR EN 12201-2 / HDPE, SDR41 acc. SR EN 12201-2 De500																																							
DIRECTION CHANGES / SCHIMBARI DE DIRECTIE (ORIZONTAL) [°]		31.44°	38.01°	15.34°	55.63°	18.75°	1.29°	2.38°	7.13°	5.86°	3.30°	24.08°	18.77°	18.46°	10.03°	7.19°	8.85°	9.13°	5.76°																						
DIRECTION CHANGES / SCHIMBARI DE DIRECTIE (VERTICAL) [°]		0.00°	0.15°	-0.00°	0.00°	-0.00°	0.82°	-0.00°	-0.82°	-3.31°	0.47°	-0.00°	0.04°	-0.07°	0.00°	-0.29°	-0.00°	0.13°	-0.51°																						
PIPE SLOPE / PANTA CONDUCTEI [%]		40.52 m		1.46 %		101.92 m		0.03 %		96.86 m		1.12 %		48.26 m		1.67 %		60.01 m		15.41 m		0.85 %		15.35 m		0.86 %		0.58 %		33.90 m		0.92 %		55.10 m		1.41 %		41.90 m		1.61 %	
NODE SCHEME / SCHEMA NODULUI																																									
WORKING STRIP / CULOAR DE LUCRU		1.00 m																																							
PIPE COATING / ACOPERIREA CONDUCTEI		N/A																																							
PIPE PROTECTION; CIVIL/MECHANICAL PROTECTIA CONDUCTEI; CIVIL/MECANIC		DN800 (813x10.0mm); L=20.0m, OL52.2, protectie interna si externa anticoroziva: vopsea epoxidica: 100 microni fiecare. Imbinarea conductelor se va face prin sudura cap la cap. Caracteristici tehnice: conform SR 6898-1/1995. Conductele vor fi insotite de documentul de certificare a calitatii conform EN 10204/DIN 50049. DN800 (813x10.0mm); L=20.0m, OL52.2, corrosion protection internal and external: epoxy paint, 100 microns each. The pipes will be connected by butt weld joint. Technical characteristics: acc. SR 6898-1/1995. For the pipes will be delivered the quality certified document acc. EN 10204/DIN 50049.																																							
CROSSING / TRAVERSARI																																									
PIPELINE TESTS / TESTE PENTRU CONDUCTA		PRESSURE / PRESIUNE		Test de presiune (1hr.) la 4.0 Bar conform STAS 3051-91 si document 26P15-ME-REP-004-02. Pressure test (1hr.) at 4.0 Bar acc. STAS 3051-91 and document 26P15-ME-REP-004-02.																																					
		WELDINGS / SUDURI		Test de etanseitate (24hr.) la 4.0 Bar conform STAS 3051-91 si document 26P15-ME-REP-004-02. / Leakage test (24hr.) at 4.0 Bar acc. STAS 3051-91 and document 26P15-ME-REP-004-02. Imbinarile trebuie sa fie 100% verificate conform ISCIR si specificatiile de la producator. / The joints must be 100% verified acc. ISCIR and supplier technical specifications.																																					

NOTE:

- The constructor shall not start the work without construction authorization. / Construcorul nu trebuie sa inceapa lucrarea fara autorizatie de construire.
- The constructor shall start the work on areas with existing utilities only with the written acceptance of the utilities owners and in the presence of the existing utility owner representative. The constructor has the obligation to inform the existing utility owner of the intention to start the work in the area. In these areas the excavation shall be executed manually or mechanized for the first part of the excavation, only with the existing utility owner representative acceptance. / Construcorul va demara lucrarile pe zone cu conductele de utilitati existente numai cu acceptarea scrisa a proprietarilor conductelor si in prezenta reprezentantului proprietarului utilitatii existente. Construcorul are obligatia de a informa proprietarul de despre intentia de a incepe lucrarile in zona. In aceste zone, sapaturile vor fi executate manual sau mecanizate pentru prima parte a excavarii, numai cu acceptarea reprezentantului proprietarului utilitatii.
- The existing utilities shall be protected (covered) and supported accordingly. / Conductele de utilitati existente trebuie protejate (acoperite) si suportate corespunzator.
- A minimum vertical distance of 0.3 m shall be preserved in between the pipeline and other existing installations when crossing. If drilling or ramming at least 1 m shall be preserved. / Distanta verticala minima de 0.3 m trebuie pastrata intre conducta si celelalte instalatii existente unde sunt traversari.
- Pipelines usually undercross the existing utilities. / Conductele, de obicei, subtraverseaza conductele de utilitati existente.
- A minimum 5 m horizontal distance should be preserved from the existing power main poles according the project conditions. The distance may be reduced up to 2 m only with the utility owner acceptance and in special conditions specified by the designer. / Trebuie sa fie pastrata o distanta orizontala de 5 m fata de stalpi de inalta tensiune in concordanta cu conditiile proiectului. Distanta poate fi redusa pana la 2 m numai cu acceptul proprietarului utilitatilor si in conditii speciale specificate de proiectant.
- The constructor shall use for construction only projects and documentations verified by certified projects verifiers according the law. / Construcorul trebuie sa utilizeze pentru construire doar proiectele si documentatia verificata de verificatorii certificati de proiect.
- Prior the pressure test the pipeline shall be internally cleaned. / Inaintea testului de presiune conducta trebuie curatata intern.
- The strengthen test should be done after backfilling of the trench. The joints may be left open. / Testul de rezistenta trebuie sa fie efectuat dupa umplerea santului.
- The starting point of TIE-IN pipeline correspond to Picket 1 and arrival points correspond to picket 194. / Punctul de plecare al TIE-IN al conductei existente corespunzatoare Pichetului 1 si punctul de sosire Pichetul 194.
- The trench shall be natural sloped not supported only up to 1.5 m depth. Trenches deeper than 1.5 m shall be supported according construction procedures and design specifications in accordance to geotechnical study. / Santul trebuie sa aibe o panta naturala nu numai mare de 1.5 m adancime. Santurile mai adanci de 1.5 m vor fi sustinute in conformitate cu procedurile construcorului si specificatiile proiectantului.
- Location of existing line shall be defined in the construction phase. / Locatia liniilor existente trebuie sa fie definite in faza de construire.
- Minimum bending radius shall be 20 DN. / Razo minima de curbura trebuie sa fie de 20 DN.

0		08.06.2021	Emis pentru obtinere autorizatie de construire / Issued for building permit obtain	APROBAT / Approved	
REV.	DATA/Date	DESCRIERE / Description	PROIECT NR./Project No		COO DOCUMENT / Document code
			26P15		PL-DWG-071
			00		B
			FAZA PROIECT / Design Phase		Format
			DTAC		A1
PROIECTAT/Designed	Ing. Valentin GEAMBASU	SEMNATURA	DATA/Date	WABAG Water Services SRL J40/2698/2011 CUI RO23305569	
DESENAT/Drafted	Ing. Valentin GEAMBASU	SEMNATURA	SCARA/Scale	TITULU PLANSĂ / Drawing name	
VERIFICAT/Checked	Dr. Ms. Ing. Razvan Varvorea	SEMNATURA	1:100 1:1000	Profil longitudinal conducta deversare Longitudinal profile effluent discharge pipeline	
				PLANSĂ NR. / Drawing No.	
				10/16	