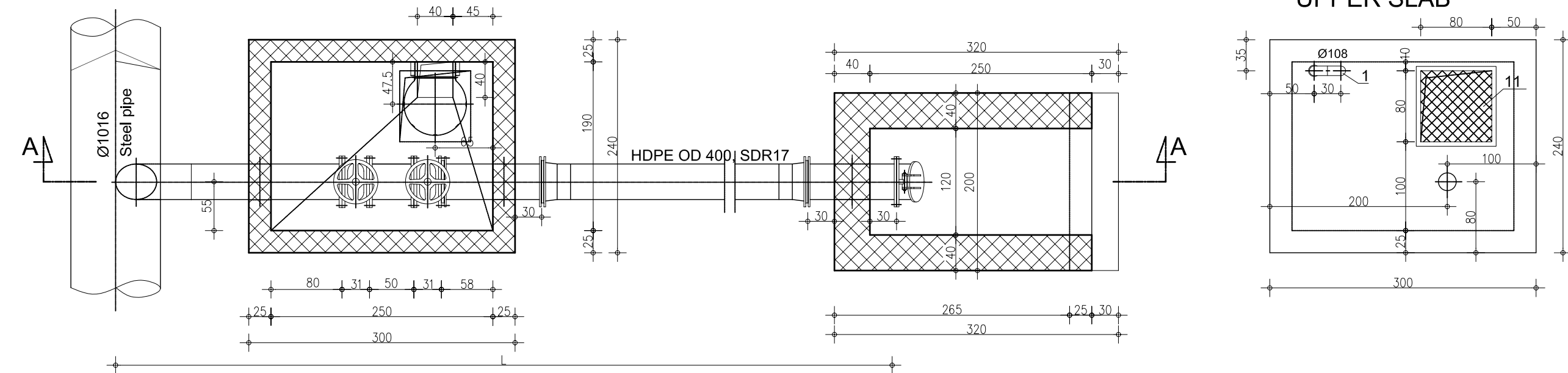
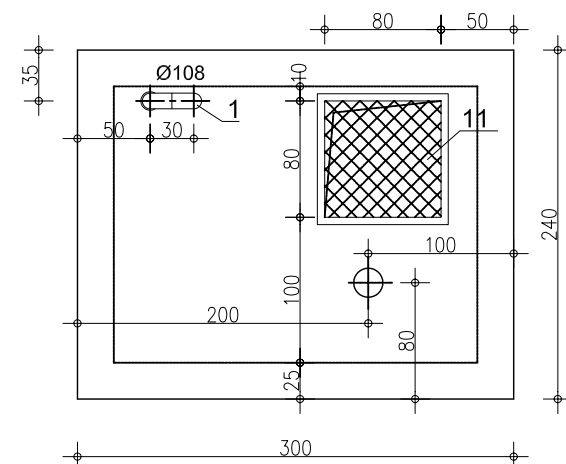


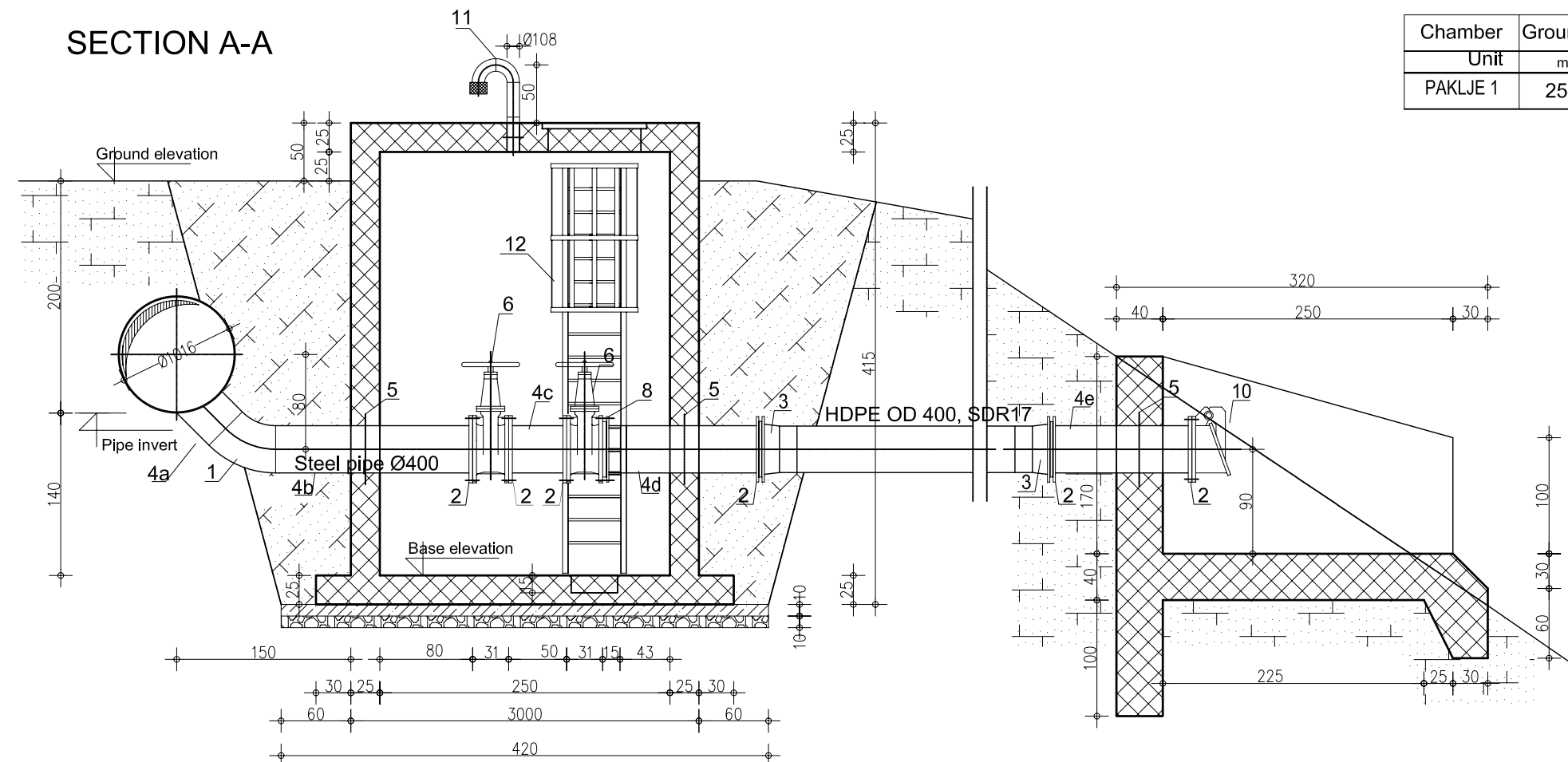
## LAYOUT



## UPPER SLAB



## SECTION A-A



Chamber	Ground elev.	Washout	L	Outlet
Unit	m.a.s.l.	DN	m	DN
PAKLJE 1	254.62	400	~30	400

## LEGEND:

- Reinforced concrete, grade MB30, watertightness class V6
- Mass concrete, grade MB30
- Blinding concrete, grade MB20, 10cm thick
- Compacted gravel Ms=15MPa, d=20cm
- Soil

## PIPING SCHEDULE: WASHOUT CHAMBER

Item No	Description	Technical features	Material, STD	Qty.
1	Steel elbow	DN400, R=1.5D, 45°	See notes below	1
2	Flat steel flange	DN150, PN10	Material BS EN 10224-L275, corrosion protection - see notes, dimensions to EN1092-1	8
3	Stub end with backing ring	HDPE stub with backing ring DN400, PN10 to EN1092-2	Stub HDPE PE-100, backing ring - flange of steel to BS EN 10224-L275	2
4a	Welded steel pipe	DN400 (406.4/6.3mm), L=2.400mm	See notes below	1
4b	Welded steel pipe	DN400 (406.4/6.3mm), L=680mm	See notes below	1
4c	Welded steel pipe	DN400 (406.4/6.3mm), L=380mm	See notes below	1
4d	Welded steel pipe	DN400 (406.4/6.3mm), L=580mm	See notes below	1
4e	Welded steel pipe	DN400 (406.4/6.3mm), L=720mm	See notes below	1
5	Puddle flange	DN400, flange OD min. 30%> pipe OD, not less than 50mm. Flange thickness min. 30%> pipe thickness, but not less than 10mm	Pipe measures to EN10220, material BS EN 10224-L275, corrosion protection - see notes	3
6	Gate valve, resilient seated, manually operated with hand wheel, short body	DN400, PN10, Face-to-face to EN 558 - series 14, flange connections to EN 1092-2	Valve to EN1171, body, bonnet, wedge EN-JS 1050 to EN1563, stem stainless seal min. 13%Cr, epoxy resin powder coating inside & outside, blue to RAL5015, thickness min 250 µm, gasket EPDM	2

## PIPING SCHEDULE: WASHOUT CHAMBER

Item No	Description	Technical features	Material, STD	Qty.
8	Flange adapter	DN150, flange to EN 1092-2, PN10	Structure of ductile iron, fasteners AISI304, sealing ring EPDM	1
9	Flap valve	Circular type, DN400, flanged connection to EN 1092-2, PN10	Valve body and flap of S.S. 1.4301. Seal of chloroprene, connecting parts of S.S. A2	1
10	HDPE pipe	OD400mm, SDR17	PE-100, to EN12201	1
11	Ventilation piping	Ventilation piping of stainless steel, DN100 (Ø114.3/1.6mm), straight pipe L=600mm, 2 x elbow 90° - R=1.5D, 3mm thick puddle flange, protection mesh.	Dimensions of pipes according to EN ISO 1127. Material of all items according to EN1.4301.	1
12	Ladder with safety hoops	H= Variable, made of steel L profiles 40x40x4, bars Ø20 and tin. Anchored to wall, including set with anchor bolts and other installation materials made of galvanized steel.	Materials to BS EN 10224-L275 and EN1.0037. Corrosion protection: hot galvanization.	1
13	Ductile iron manhole cover & frame	Clear opening 600x600mm, class B125, loading 5t	To BS EN124	1

- Notes:
- All necessary joints, jointing material (gaskets, bolts, nuts, washers, etc. are to be included)
  - Steel welded pipes shall be to EN10220, material to BS EN 10224-L275.
  - Corrosion protection:
    - Outside, in the ground: sand blasting to DIN EN ISO 12944, cold bitumen layer and final layer of reinforced bitumen membrane of 4mm to EN10300
    - Outside, within a protection pipe: sand blasting to DIN EN ISO 12944, two layers of zink-epoxy, and two layers of bitumen-epoxy coating of minimal thickness 200 µm
    - Outside, in contact with concrete: cement milk coating.
    - Inside: sand blasting to DIN EN ISO 12944; and at least two layers of epoxy coating with certificate for drinking water, of minimal thickness 200µm
  - The same standards and procedures apply for welds, inside and outside
  - Steel fittings: material and corrosion protection-equivalent to steel pipes, wall thickness equivalent or larger than of joining pipes
  - Any steel piping, other than steel pipe, should be pre-fabricated
  - Steel elbows must be pre-fabricated with smooth curves, segment-welded elbows are not allowed

Project title: Kolubara Regional Water Scheme

Tender No: Europe Aid/131619/C/WKS/RS

Structure/section: Raw water pipeline Rovni-Paklje

Drawing title: Washout Chamber "Paklje1" DN400 - layouts and sections

Drawing No: A-CV-18

Scale: 1:50

Municipal Infrastructure  
Support Programme  
EU-funded ProjectBeneficiary:  
Public Company  
"Kolubara", Valjevo