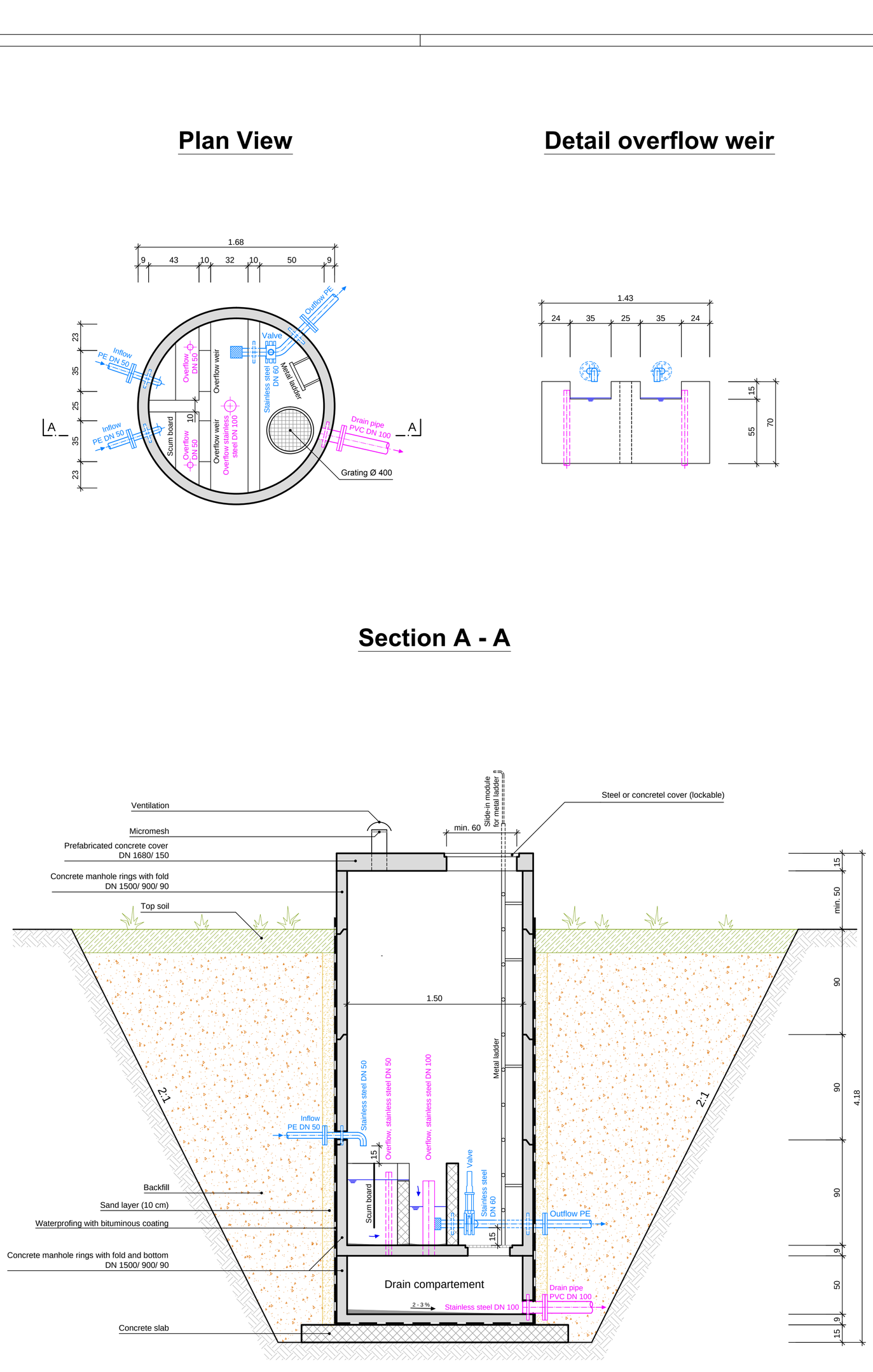
Plan View

Detail overflow weir

Section A - A



Legend

- Water pipe
- Drain pipe, overflow pipe
- Bituminous coating
- Prefabricated concrete elements
- Reinforced concrete
- Top soil
- Backfill
- Sand
- Natural soil (excavation)
- 11 — Indication of dimensions in cm
- 1.00 — Indication of dimensions in m
- DN, Ø — All diameters in mm

Remarks

1. Building type, materials and final dimensions of the entire building or parts of it, depend on the specific application (i.e. dimensions of concrete manhole rings) and its static requirements.
2. Structural analysis has to be carried out in each specific case.
3. Safty against flotation of concrete structures has to be checked and ensured.
4. Backfill and layer of top soil must be compacted in layers of 30 - 50 cm depending on local soil conditions.
5. Pipe installations inside the building can be carried out in stainless steel or polyethylene.
6. For all pipes, watertight pipe penetrations must be provided.
7. Drain pipe must be directed into a stream or discharge channel. The pipe end must be protected from small animals with grating.
8. The overflow and the drain must be dimensioned to allow for draining off the maximum spring capacity without restricting the spring flow.

ApaSan - Swiss Water and Sanitation Project Moldova

Reference Designs for Rural Water Supply Systems

Project Plan

Spring Chamber
Plan View, Sections

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