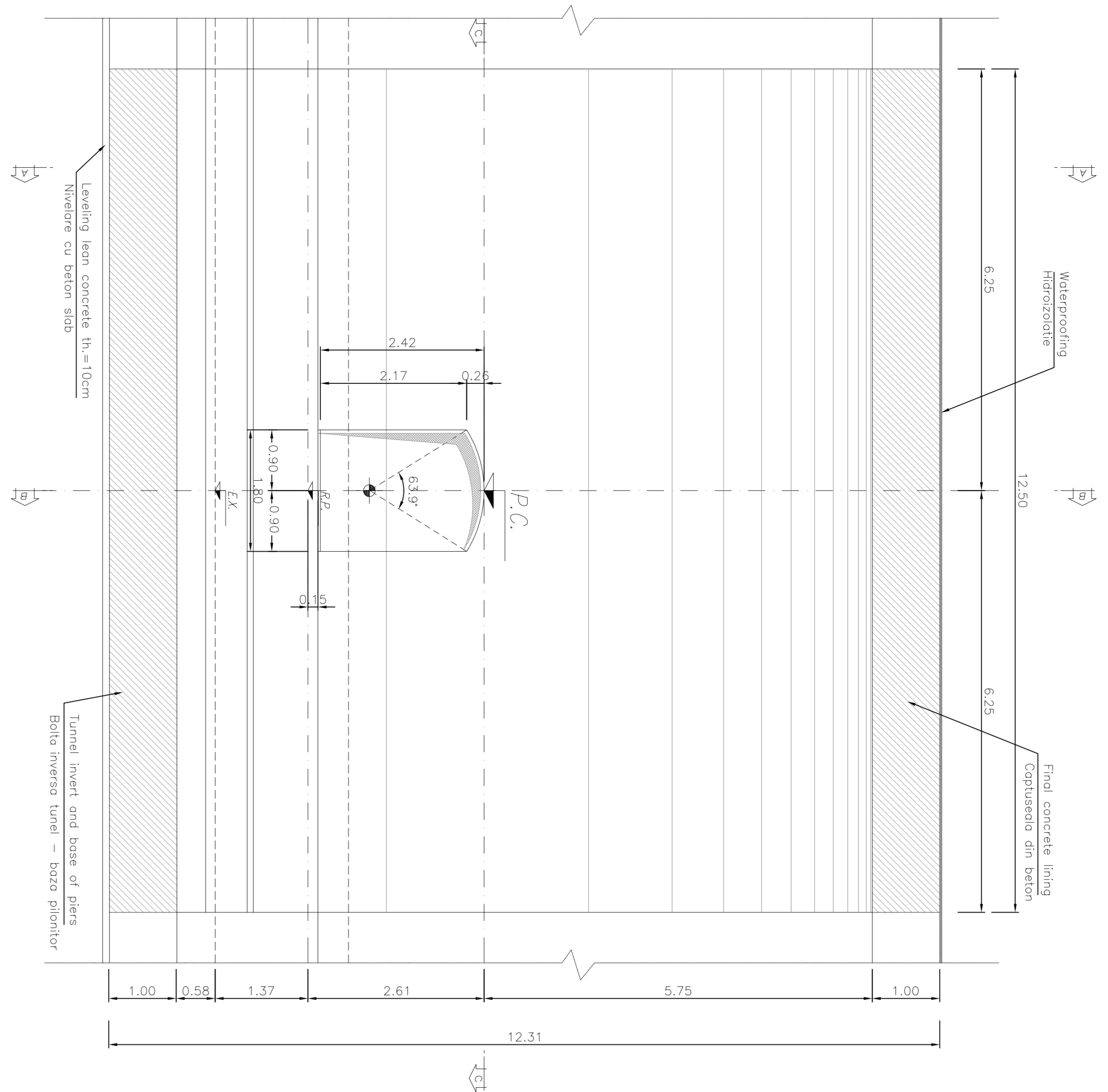
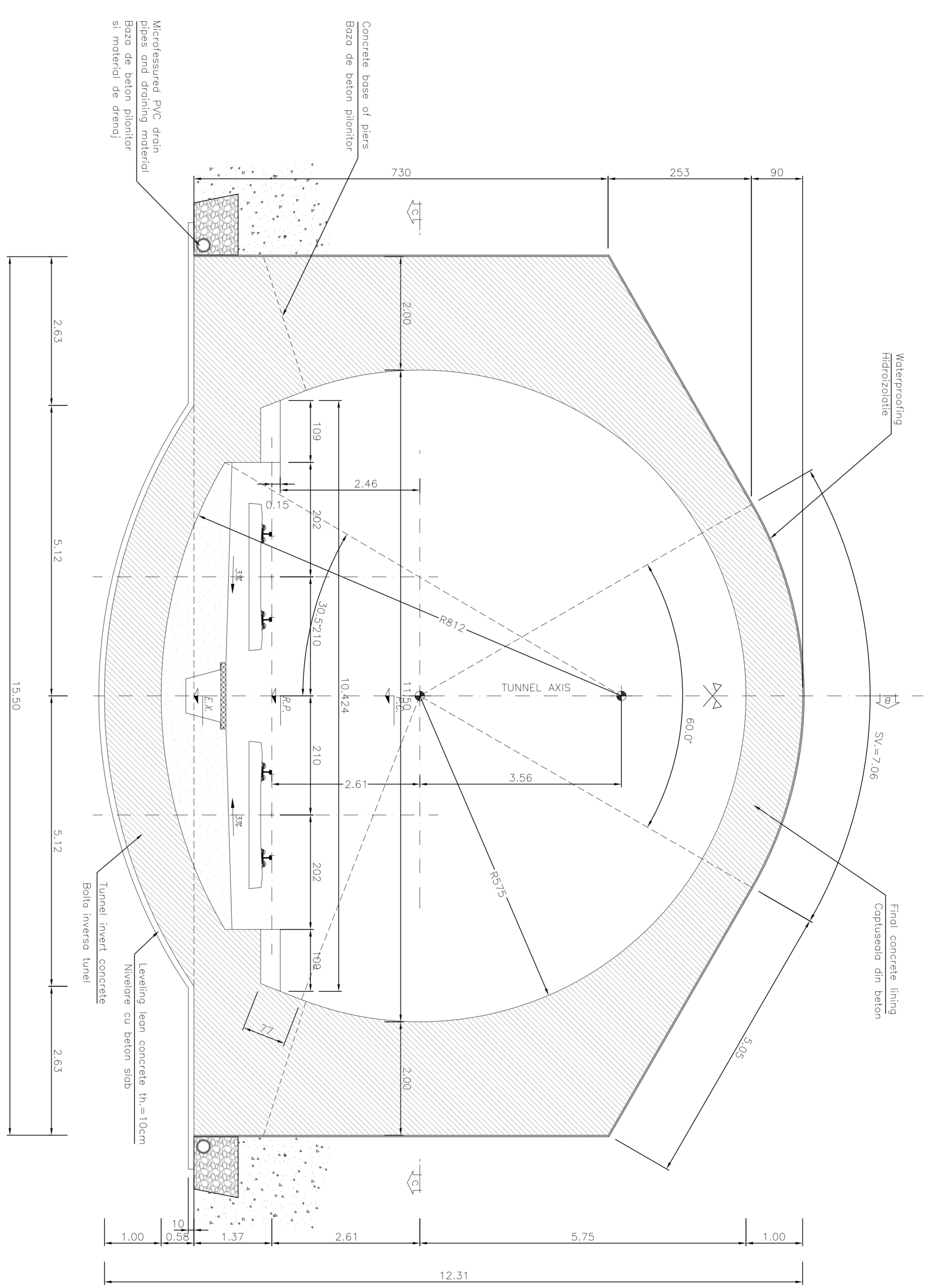


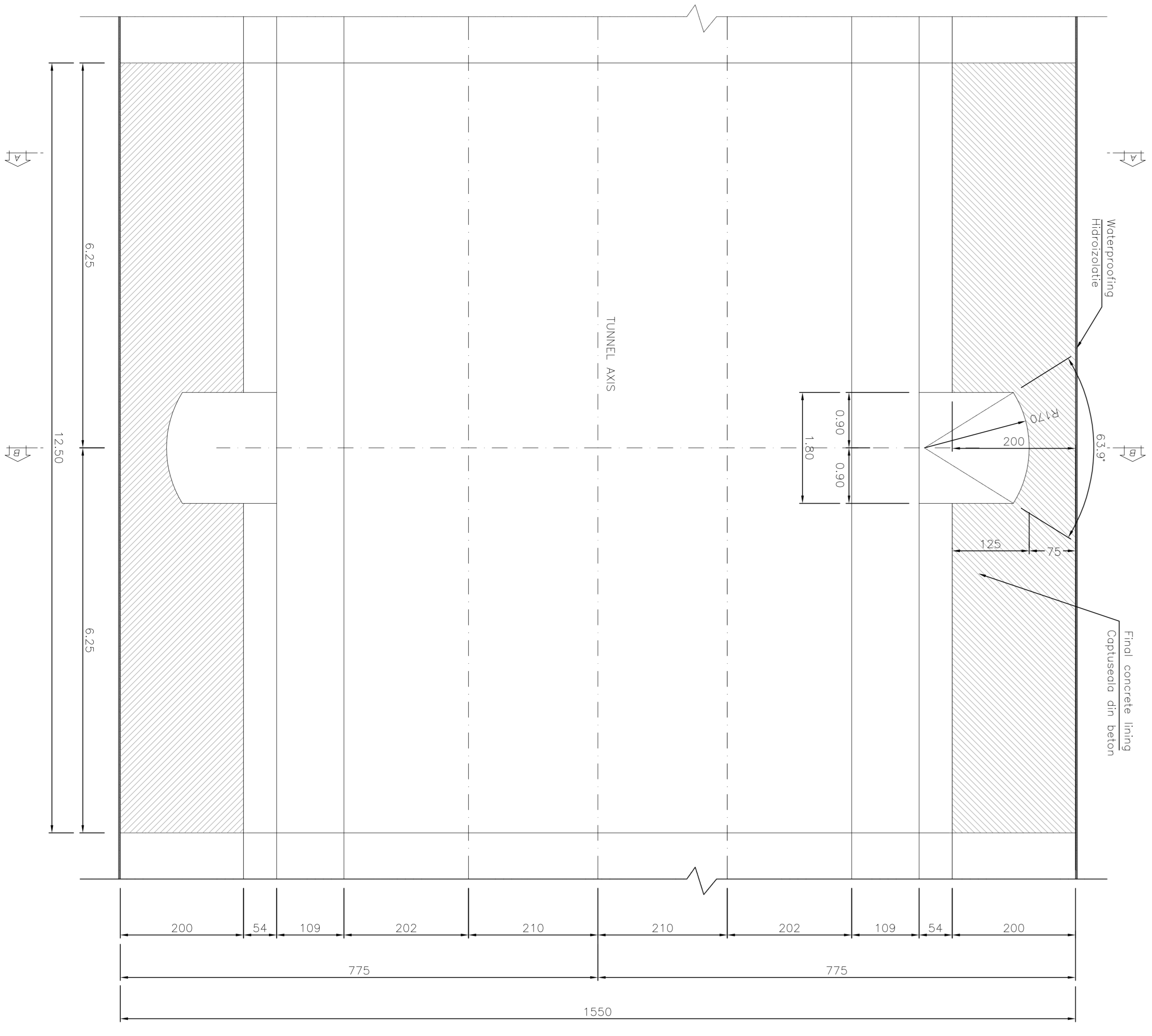
SECTION B-B
Scaia/Scaia 1:50



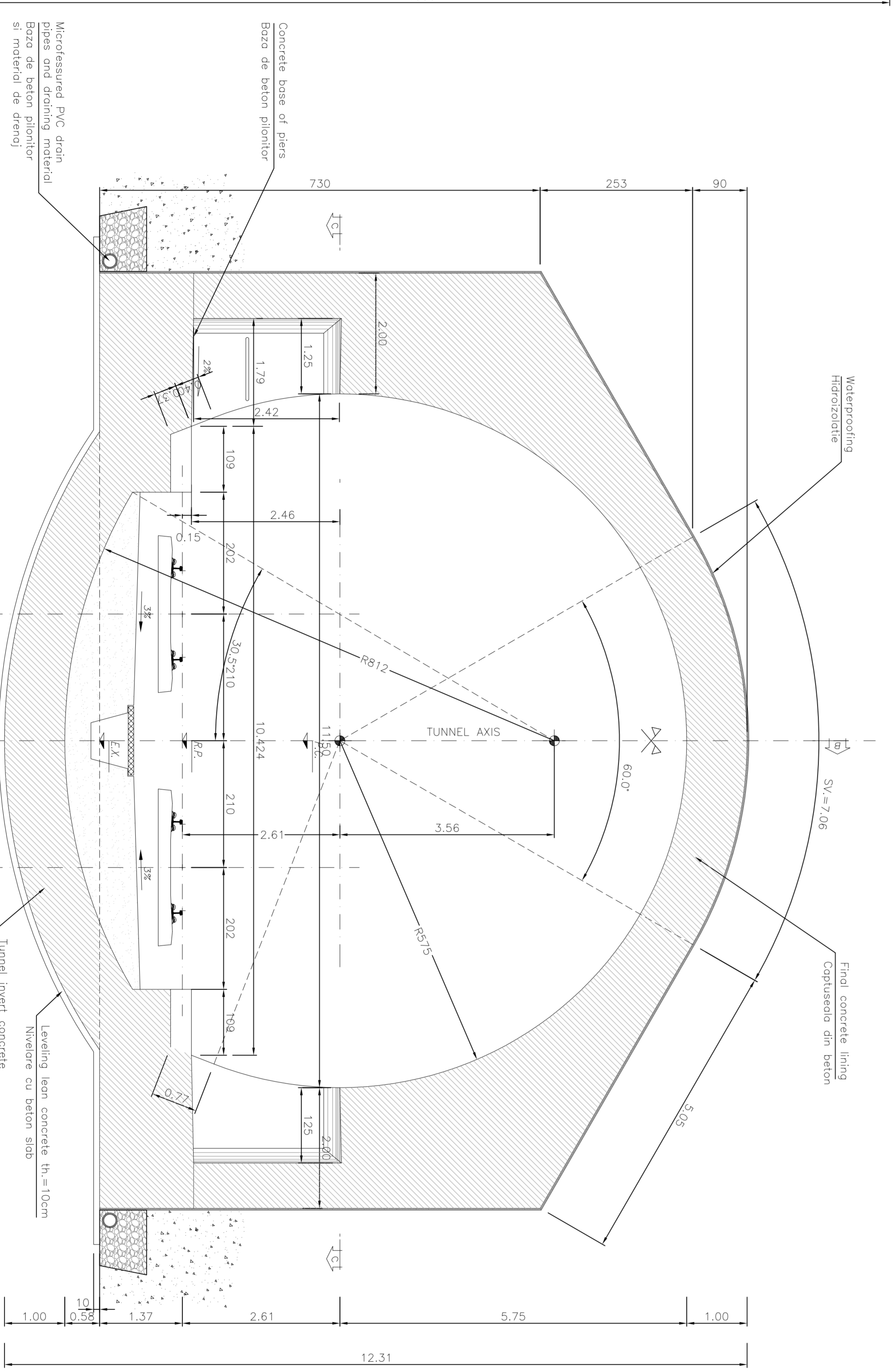
SECTION A-A
Scaia/Scaia 1:50



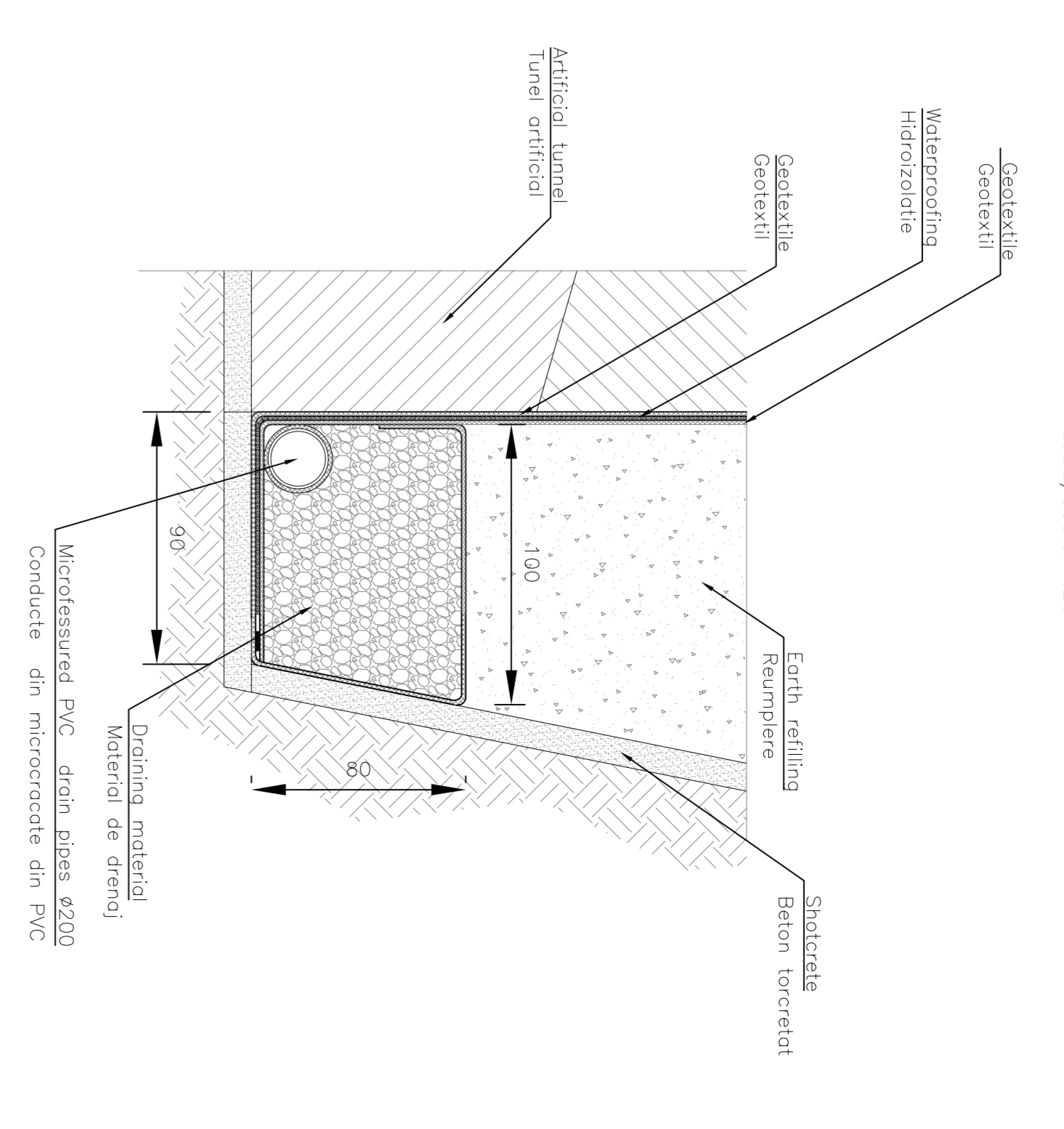
SECTION C-C
Scaia/Scaia 1:50



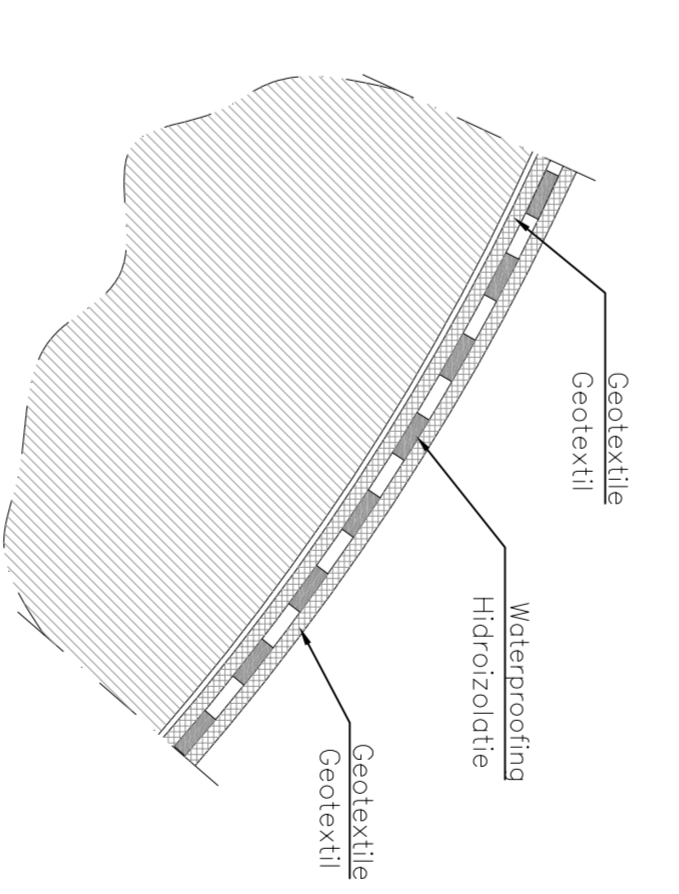
SECTION CU NISE PENTRU ADAPOSTUL PERSONALULUI B-B
Scaia/Scaia 1:50



WATERPROOFING PIER DETAIL
Scaia/Scaia 1:20



WATERPROOFING TUNNEL CROWN DETAIL
DETALIUL CORONA TUNELULUI HIDROIZOLATIEI
Scaia/Scaia 1:20



STEELS TABLE	Legend measures:
REFERENCE STEEL:	BQCC (welded)
Bending diameter R_{br} :	$R_{br} < 400 \rightarrow R_{br} = 6a$
a Bar $\phi 20-40 \rightarrow R_{br} = 6a$	$R_{br} \neq 4a/2$

MATERIAL TABLE
TUNEL INSET CONCRETE:
- Type C2
- $f_{ck} > 35$ MPa
- $f_{td} > 4.5$ MPa
- Max. aggregate size: 16mm
- Max. aggregate content: 55%
- Exposure class: related to environmental conditions: XA2
- Coefficient of thermal expansion: 10^{-6}
- Coefficient of shrinkage: 0.20
- ϵ max. aggregate = 32 mm
TUNEL DRAIN CONCRETE:
- Type C1
- $f_{ck} > 35$ MPa
- $f_{td} > 4.5$ MPa
- Max. aggregate size: 16mm
- Max. aggregate content: 55%
- Exposure class: related to environmental conditions: XA2
- Coefficient of thermal expansion: 10^{-6}
- Coefficient of shrinkage: 0.20
- ϵ max. aggregate = 32 mm

LEGEND
RP = REFERENCE PLANE
EX = EXCAVATIONS PLANE
PC = CENTERS PLANE

CLIENT / CLIENT	CLIENT / CLIENT
ROMANIA GOVERNMENT	ROMANIA GOVERNMENT
ROMANIA GOVERNMENT	ROMANIA GOVERNMENT

CONSULTANT / CONSULTANT	CONSULTANT / CONSULTANT
TECHNIC	TECHNIC
TECHNIC	TECHNIC

SUBCONSULTANT / SUBCONSULTANT	SUBCONSULTANT / SUBCONSULTANT
TECHNIC	TECHNIC
TECHNIC	TECHNIC

CONFIRMED / CONFIRMED SIGN	CONFIRMED / CONFIRMED SIGN
CONFIRMED / CONFIRMED SIGN	CONFIRMED / CONFIRMED SIGN
CONFIRMED / CONFIRMED SIGN	CONFIRMED / CONFIRMED SIGN

NOTE: The integrity of the concrete structures of the artificial and natural tunnels have to be maintained in case of fire (4.2.2.3 fire protection requirements for structure IS9 Technical Specification for Integritability).

NOTE: Integritate structurilor de beton a tunelurilor artificiale si naturale, trebuie sa ramana intacta in caz de incendiu (4.2.2.3 cerintele de protectie la foc pentru structuri SI9 Specificatiile tehnice pentru Integritabilitate).

NOTE: Handrail shall be installed approximately of 1 m above walkway providing a route to a safe area (4.2.2.2 Escape walkways IS9).

NOTE: Handrail-ul trebuie sa fie instalat aproximativ la 1 m deasupra calii de escape oferind un traseu sigur (4.2.2.2 escape walkways IS9).

NOTE: Escape signs shall be installed on the side walls at a maximum distance between escape signs of 50m (4.2.2.9 Escape Signs IS9).

NOTE: Semnale de evacuare trebuie sa fie instalate pe pereții laterali, la o distanță maximă între semne de evacuare de 50m (4.2.2.9 Escape Signs IS9).