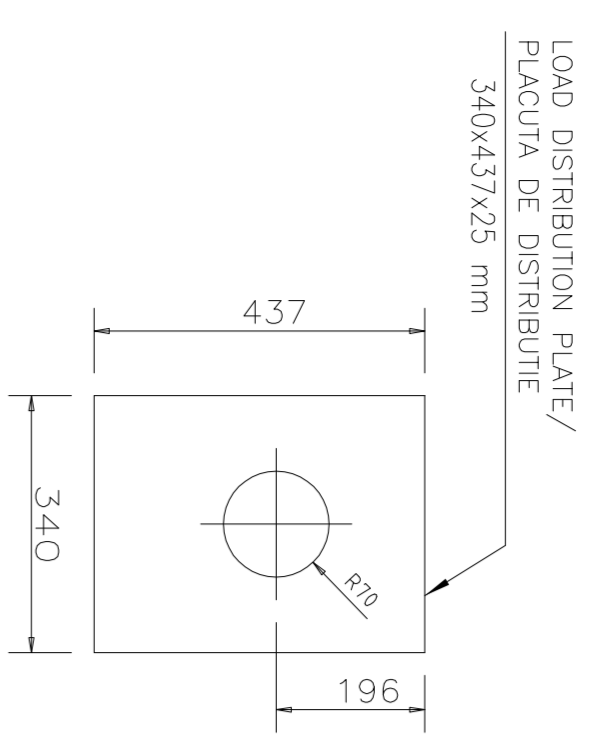


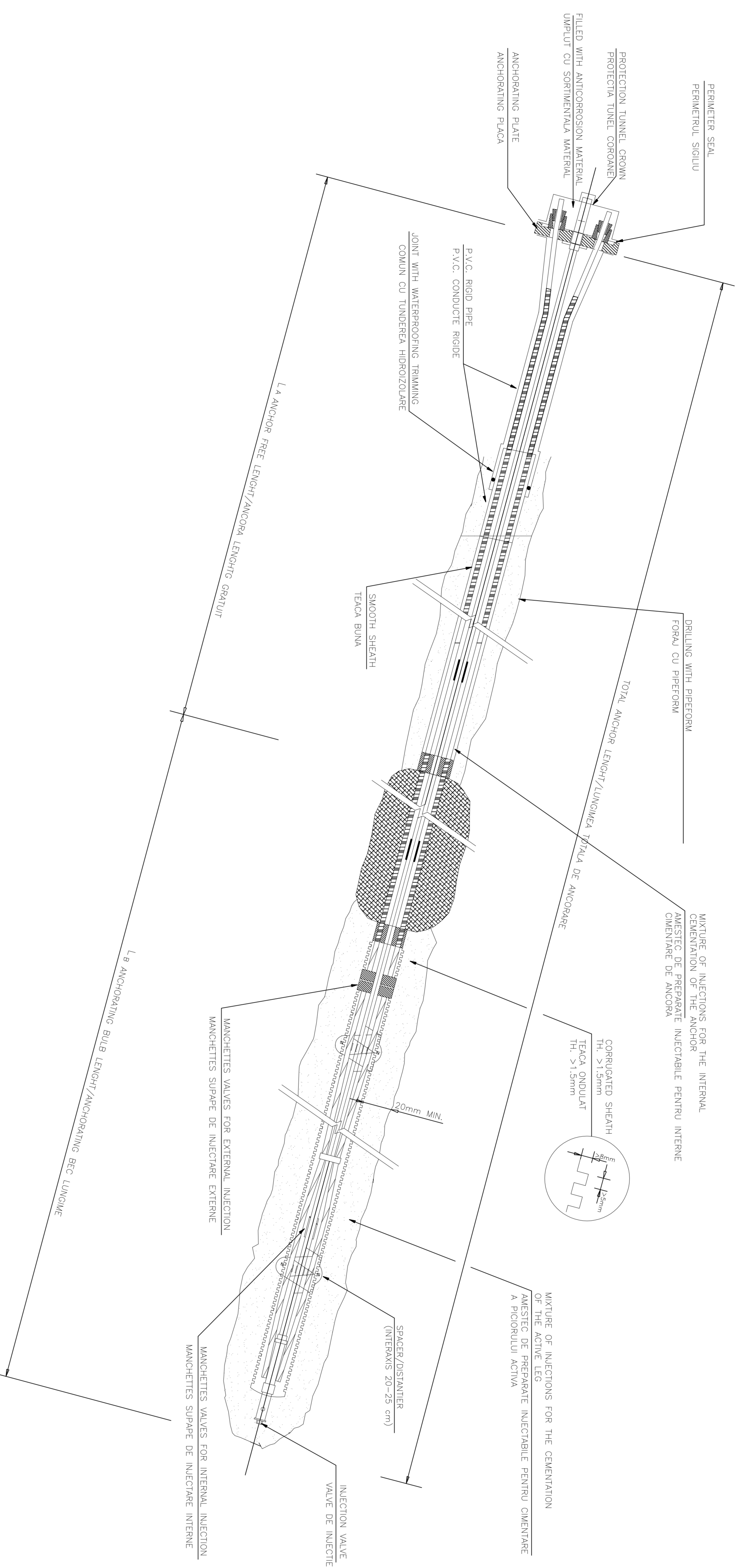
PLATES DETAIL/PLACI DETALIU

Scale/Scara 1:10



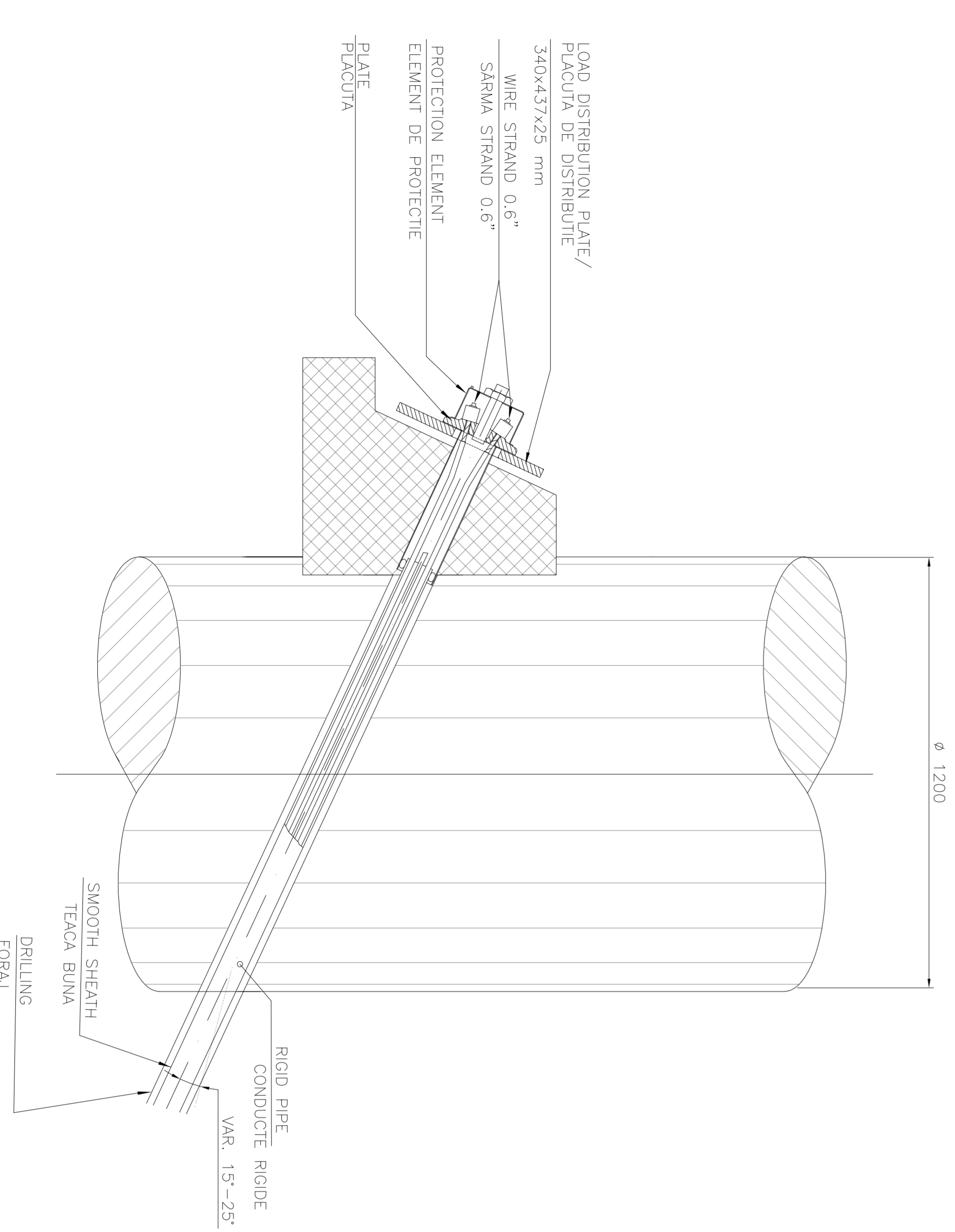
ANCHORS DETAIL/ANCORE DETALIU

Scale/Scara 1:5



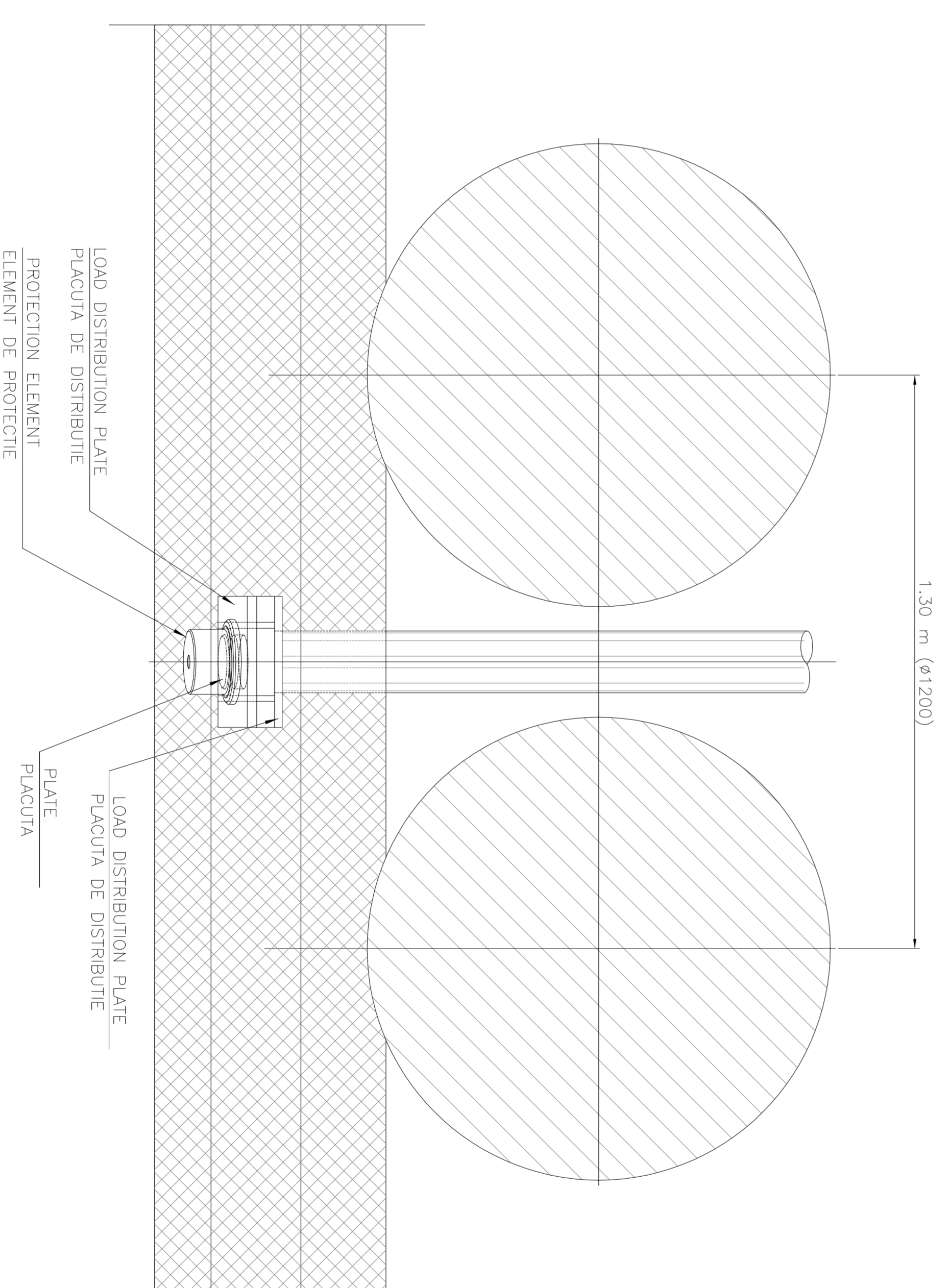
ANCHOR PILES CURB REINFORCED DETAIL

Scale/Scara 1:10



PILES PLAN/PILOTI PLAN

Scale/Scara 1:10



MATERIAL/MATERIALE

- STEEL/OTEL:
 - Fe S10
 - De=133 mm , s=125 mm
- REINFORCED CONCRETE PILE/BETON ARMAT PILE:
 - concrete/stacion >= 30 MPa
 - type/Tip S4
 - concrete cover = 5 cm
 - embedding steel: B 150 B
- ANCHOR:
 - wire strand specifications: diameter mm 15,50 (6/10⁷)
 - section mmq 139
 - steel for prestressed concrete f_{pk} >= 1670 N/mm²
 - injection pipe/ponder = 16 mm
 - burst pressure >1 MPa for low pressure injection; >10 MPa for high pressure injection;
 - mixed concrete for injection: total chlorine content of less than 0.05% of the weight of concrete and the content of total sulphur in the lower weight of 0.15% of cement to avoid danger stress corrosion.
 - smooth and corrugated sheath polyethylene or polypropylene

0									
1									
2									
3									
4									
5									
6									
7									
8									
9									

CLIENT / CLIENT
 ROMANIA GOVERNMENT
 GOVERNUL ROMANIEI
 ROMANIAN GOVERNMENT
 EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT
 CN.C.F. "C.F.R." - S.A.

CONSULTANT / CONSULTANT
 OBERMEYER
 CONSULTING ENGINEERS

CONSULTANT / CONSULTANT
 MURENI TUNNEL
 ENTRANCE MAIN TUNNEL SIDE

SUBCONSULTANT / SUBCONSULTANT
 TECHNIG

Date: 2004/02/16/09/2002
 P.1h. / 1.0.