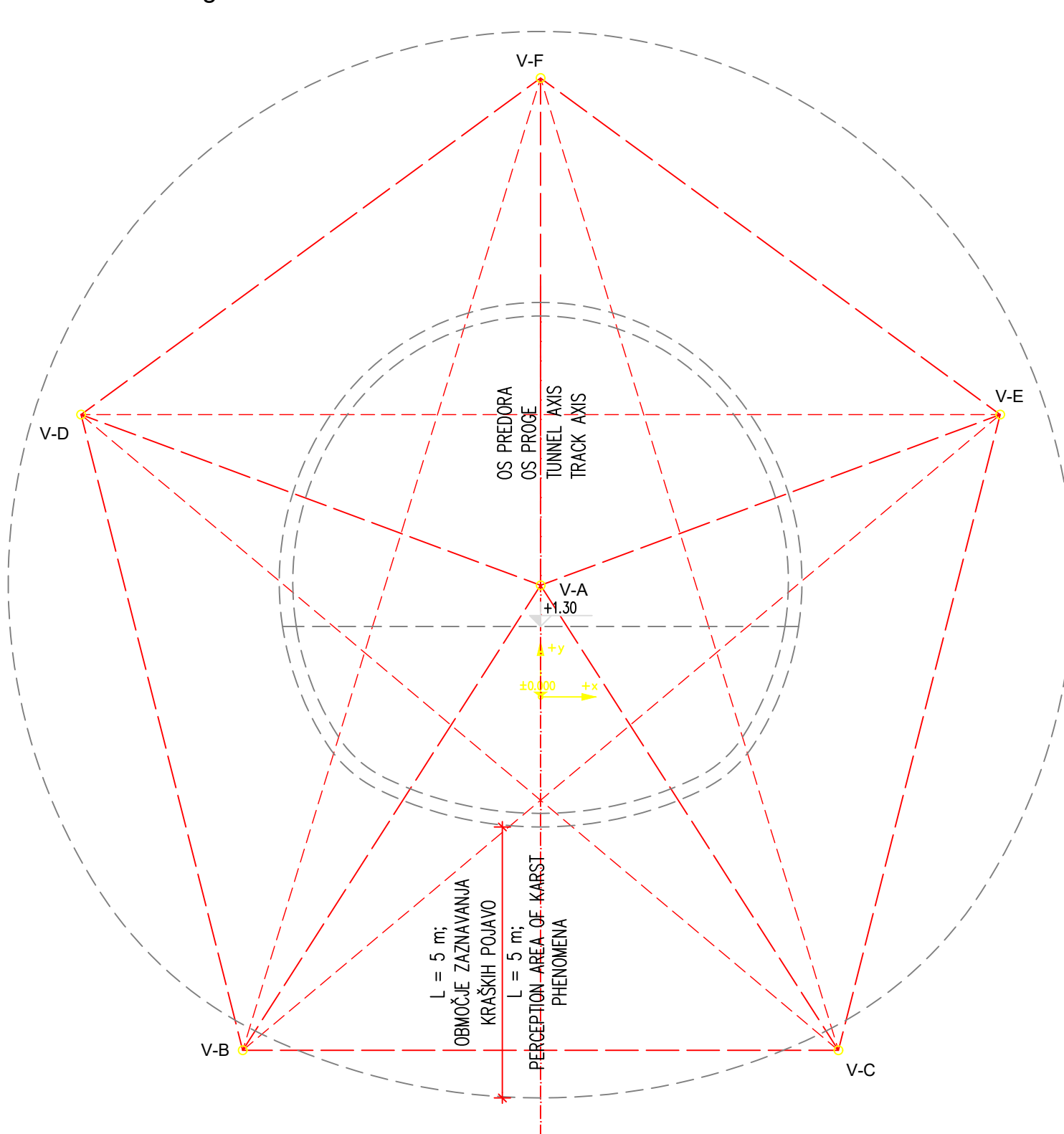
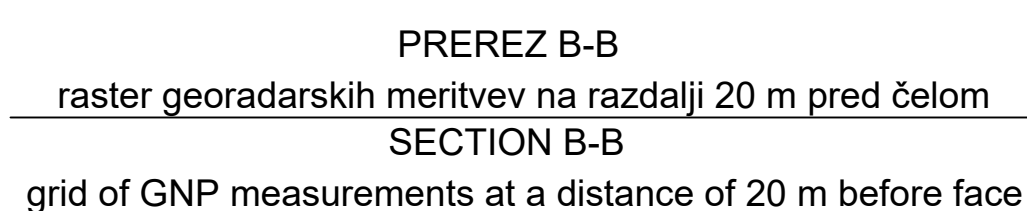
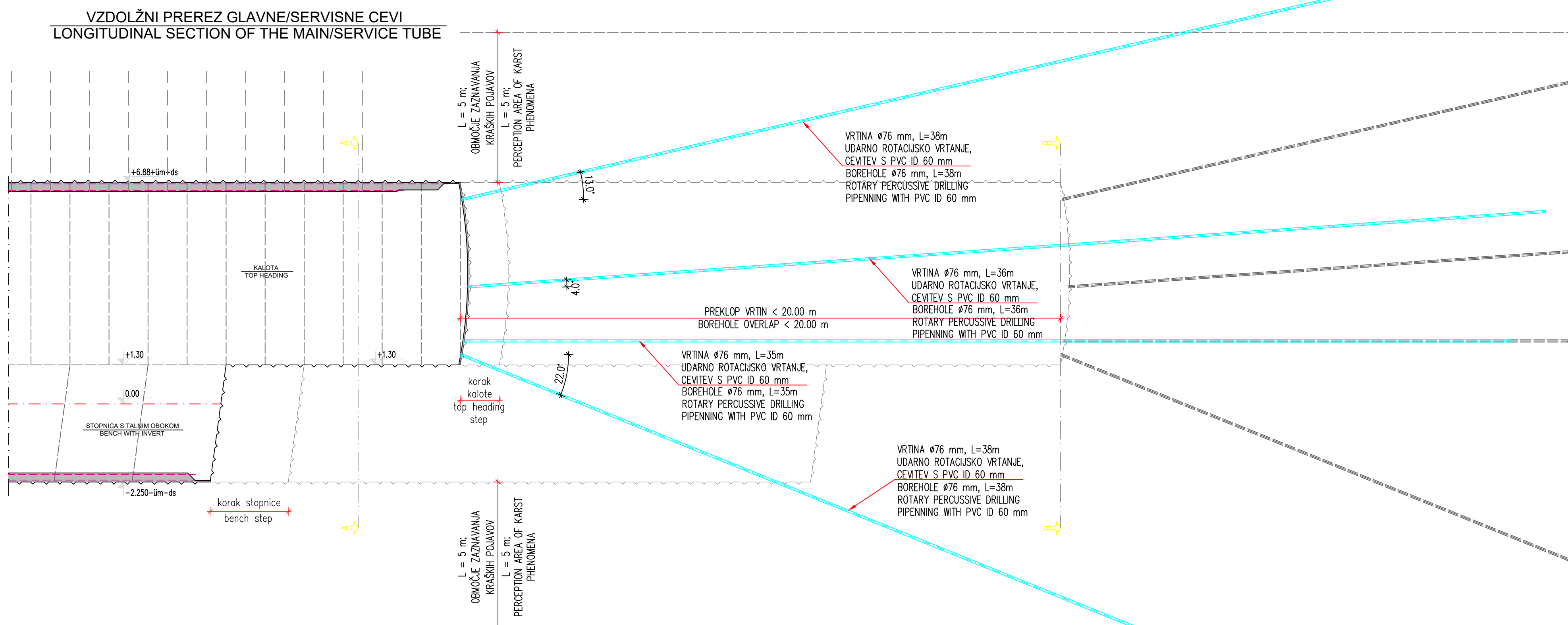
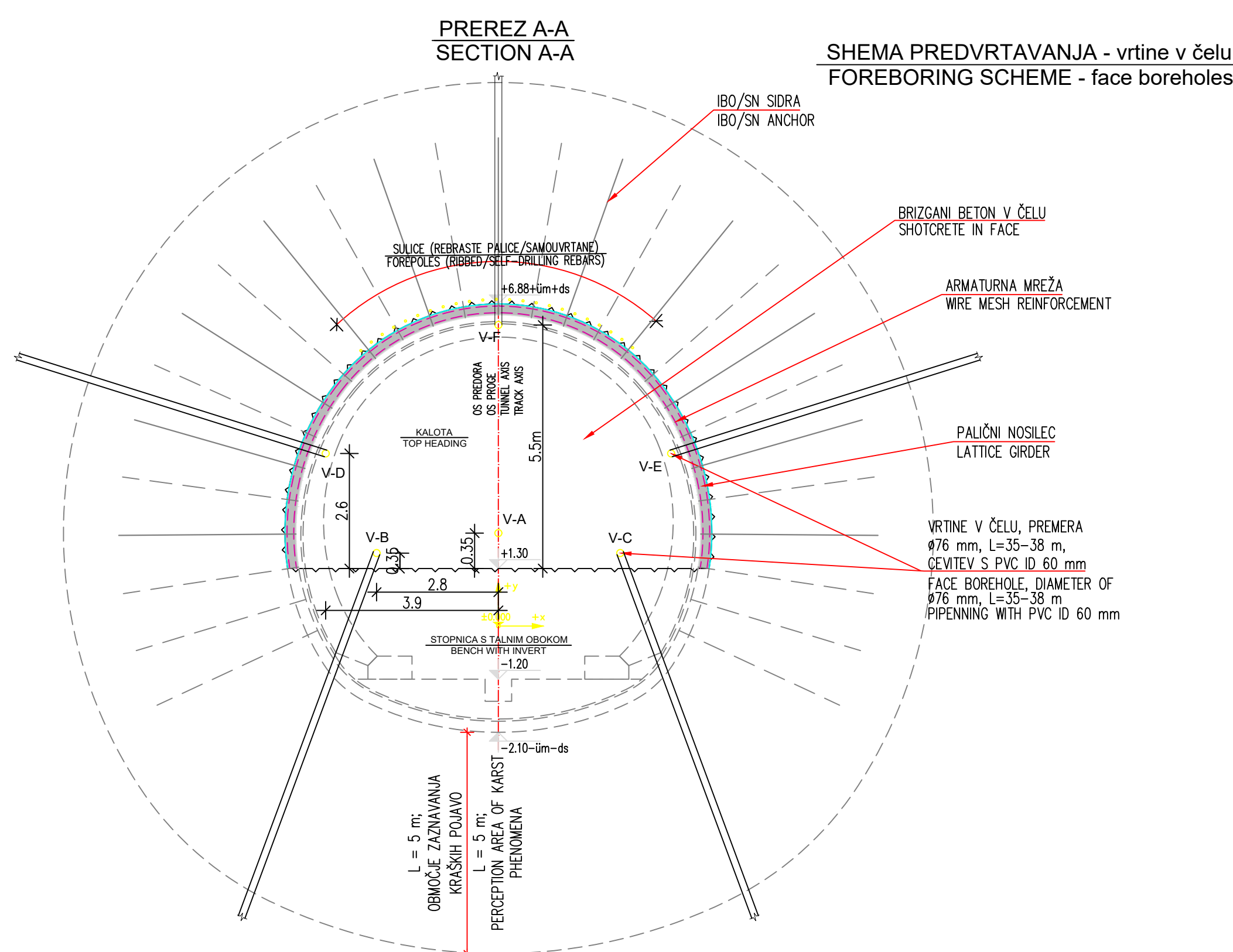


Shema predvrtavanja - srednja in visoka stopnja zakraselosti
Foreboring scheme - medium and high level of karstification

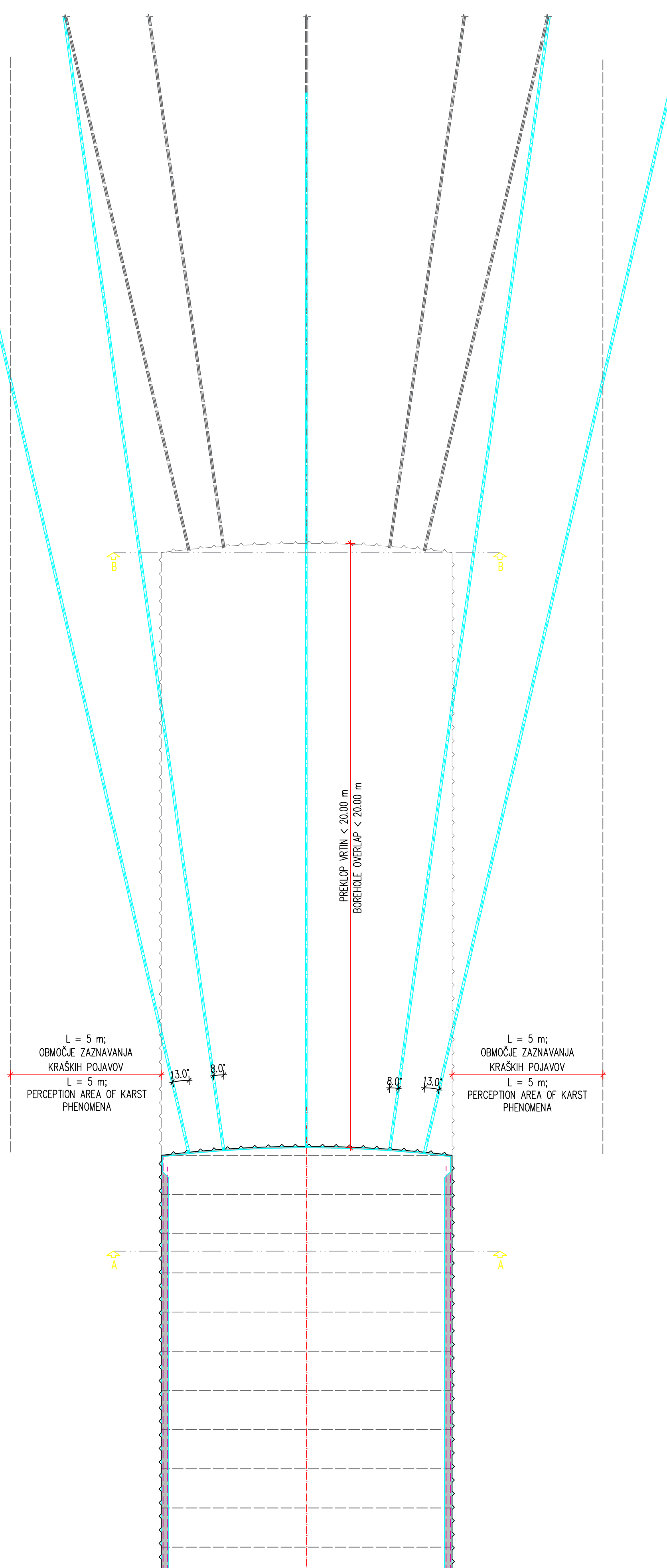


LEGENDA:

- Osnovne crosshole meritve
- - - Dodatne crosshole meritve
- o Refrakcijske meritve (v vsaki vrtni)

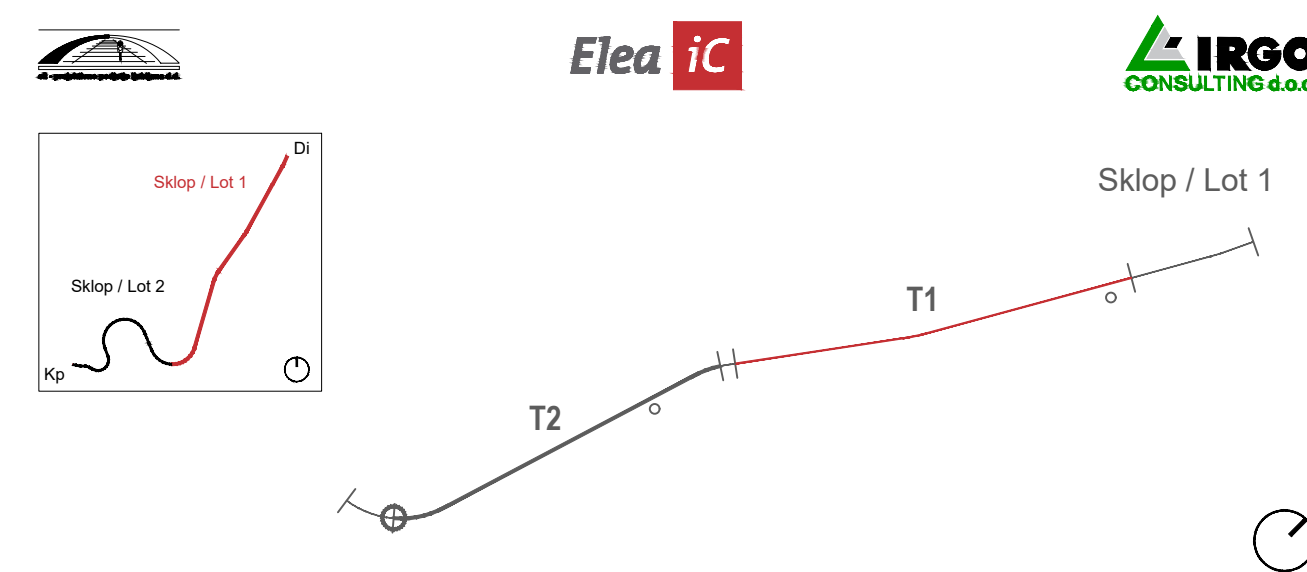
LEGEND:

- Basic crosshole measurements
- - - Additional crosshole measurements
- o Refractive measurements (in every borehole)



- OPOMBE:
1. Prikanke raster vrtn se izvaja za srednji in visoko stopnjo zakrasedenosti in iz dopolnitve scenarija za nizko stopnjo zakrasedenosti. Obseg glede na stopnjo zakrasedenosti je naslednji: srednja stopnja zakrasedenosti - izvedba 6 vrtn in upogajanje kraških pojavov z vrtnimi, če s centralno vrtno ni ugotovljenih kraških pojavov, - visoka stopnja zakrasedenosti - izvedba 15 crosshole georadarskih meritev in 6 vrtno-georadarskih meritev.
 2. Vrtno se izvade vsake 30 m.
 3. Usmerjenosti vrtn:
 - vrtna B.C. dolžina 38m, upad: -22°, azimut: 8°
 - vrtna A. dolžina 35m, upad: 0°, azimut: 0°
 - vrtna D. dolžina 38m, upad: +4°, azimut: 13°
 - vrtna F. dolžina 38m, upad: +13°, azimut: 0°
 4. Vrtno se izvaja z udranjen rotacijskim vrtnjem premera 76 mm in začetnim ceveljenjem dolžine kolona vrtn 1,5 m.
 5. Toleranca izvedbe vrtn je $\pm 3,00''$.
 6. Za izvedbo vrtn mora biti vrtna garnitura opremljena z data loggerjem, kjer se spremlja hitrost in pritisk vrtnja.
 7. Vrtno se štiti s PVC perforirano cevjo notranjega premera (ID) vsaj 60 mm.
 8. Faznost izvedbe:
 - izvedba vrtn v celotni dolžini
 - vstavljen/vgradnja zaščitne PVC cevi
 - izvedba georadarskih preseki
 9. Natatnost zaznavanja kraških pojavov z georadarskimi meritvami je omejena na velikost površin 1x1x1m.
 10. Stopnja izvedbe vrtn se uporablja za dreniranje in nedreniranje desne poredke.
 11. Injektiranje vrtn v dolžini 4 m se mora izvesti na območjih z dotoki vode.

- NOTES:**
1. The shown raster of boreholes is performed for medium and high level of karstification and is a supplement to the scenario for low level of karstification. The extent according to the rate of karstification is as follows:
 - medium level of karstification - implementation of 6 boreholes and searching about karst phenomena with boreholes, if no karst phenomena have been identified with the central borehole.
 - high level of karstification - implementation of 15 crosshole georadar measurements in 6 refractive georadar measurements.
 2. Boreholes are drilled every 20 m.
 3. Orientation of boreholes:
 - boreholes B,C: length 38m, decrease -22°; azimuth: 8°
 - borehole A: length 35m, decrease 0°; azimuth: 0°
 - boreholes D,E: length 38m, decrease +4°; azimuth: 13°
 - borehole F: length 38m, decrease +13°; azimuth: 0°
 4. The boreholes are being performed by rotary percussive drilling with the diameter of 76 mm with temporarily piercing (cover casing) of the borehole.
 5. The tolerance of drilling is 2-30°
 6. To drill a borehole, the drilling equipment must be equipped with a data logger in which the drilling speed and pressure are monitored.
 7. The boreholes are protected with a PVC perforated pipe with an inner diameter (ID) of at least 60 mm.
 8. Phases of implementation:
 - full-length drilling.
 - insertion/installation of protective PVC pipe,
 - conducting georadar researches.
 9. The accuracy of detecting karst phenomena with georadar measurements is limited to the size of cavities 1x1x1m
 10. The drilling scheme is used for drained and non-drained sections of the tunnel.
 11. Injection of boreholes in length of 4 m shall be applied in areas with water inflow.






Projekt / Project

Drugi tir železniške proge Divača - Koper, Sklop 1
Second Track of Divača - Koper Railway Line, Lot 1

Načrt predora T1
Tunnel T1

Del objekta / Structure Part
Kraški pojavi

Karst Formations

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Elvir Muhić, dipl.inž.grad. mag. Boštjan Voljk, univ. dipl.inž.grad.		Izp. št. naloga / Cont. Plan No. G-2103 G-3568 G-2619	
Navedeni strokovnjaki / Other experts mag. Boštjan Voljk, univ. dipl.inž.grad.		Vrsta naloge / Plan Type Način / področje gradbeništva N1 G-2619	
		Datum / Date 06-2020	

Shema predvrtavanja - geofizikalne preiskave scenarij 1
Foreboring scheme - geophysical researches scenario 1

Risba / Drawing	Št. risbe / Drawing No.	Stanje risbe / Drawing Status	Različica / Revision
2TDK_IRG_PZI_GR_S1-x2-03_T8_XX_SH_OL_BI	8003	P	003

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