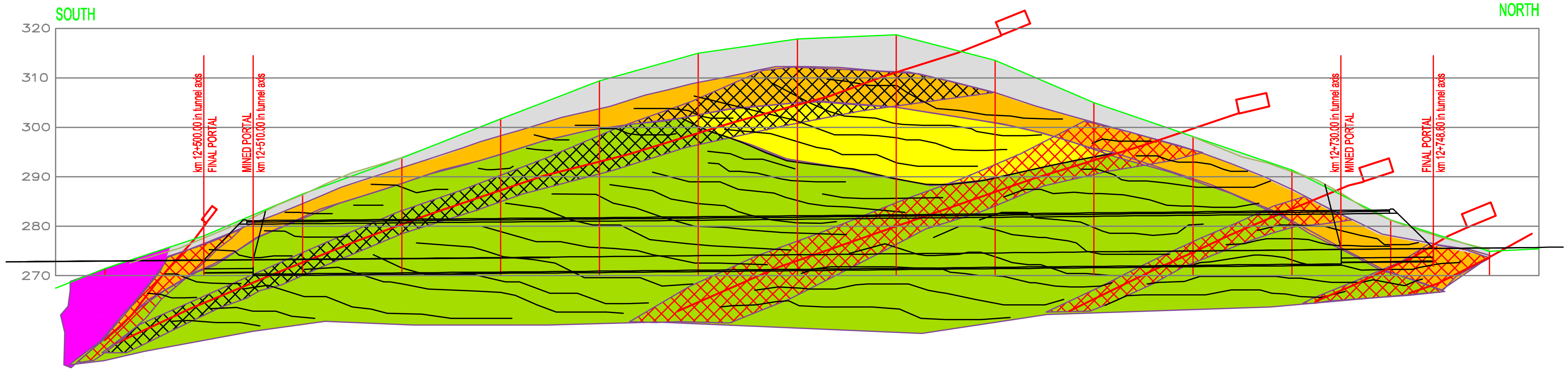

TUNNEL PART		PORTAL CUT	MINED TUNNEL											PORTAL CUT	
PROFILE	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514
CHAINAGE [km]	12+480	12+500	12+520	12+540	12+560	12+580	12+600	12+620	12+640	12+660	12+680	12+700	12+720	12+740	12+760
OVERBURDEN (cca) [m]			5	12	20	28	33	35	36	31	22	15	8		

GROUND TYPE							
	dominating		GT2b	GT2a	GT2b, GT3b	GT2a	GT2b, GT3a
	subordinate		GT2a, GT3a	GT2b, GT3b	GT2a	GT2b, GT3b	GT2a, GT3b
BEHAVIOUR TYPE			BT7	BT2, BT3	BT3, BT4, BT10	BT2, BT3	BT7

ASSOCIATED PLANS							
ASSOCIATED PLANS	central tunnel	regular cross section	G.31.120	G.31.120	G.31.120	G.31.120	G.31.120
		geotechnical measurements and solutions	G.31.400-402, STUDY 10/2	G.31.400-402, STUDY 10/2	G.31.400-402, STUDY 10/2	G.31.400-402, STUDY 10/2	G.31.400-402, STUDY 10/2
		support measures	G.31.208-210	G.31.201-207	G.31.204-210	G.31.201-207	G.31.208-210

SUPPORT MEASURES	central tunnel		BT7 7/12.6 excavation step ≤1.0m -face bolting IBO l=12m -shotcrete ds=5cm 1x wire mesh Q189 (50%) -shotcrete, ds=15cm -wire mesh 2 layers Q189 -steel rib TH16 -SN/IBO anchor,F=250kN,l=4m -ribbed reinforced bars ø28, l=3m -support body	BT2 4/3.38 excavation step ≤ 2.2m -shotcrete, ds=3cm -shotcrete, ds=10cm -wire mesh 1 layer Q189 -steel rib TH16 -ribbed reinforced bars ø28, l=4m BT3 6/5.43 excavation step ≤1.3m -shotcrete, ds=5cm -shotcrete, ds=10cm -wire mesh 1 layer Q189 -steel rib TH16 -ribbed reinforced bars ø28, l=3m -support body	BT3 BT4 7/10 excavation step ≤1.0m -shotcrete, ds=5cm -shotcrete, ds=15cm -wire mesh 2 layers Q189 -steel rib TH16 -SN/IBOanchor,F=250kN,l=4m -ribbed reinf. bars ø28, l=3m -support body BT10 7/15.2 excavation step ≤1.0m -face bolting IBO l=12m -shotcrete ds=5–10cm 1x wire mesh Q189 (50%) -shotcrete, ds=15cm -wire mesh 2 layers Q189 -steel rib TH16 -SN/IBOanchor,F=250kN,l=4m -forepoling piles, l=3m -support body	BT2 4/3.38 excavation step ≤2.2m -shotcrete, ds=3cm -shotcrete, ds=10cm -wire mesh 2 layers Q189 -steel rib TH16 -ribbed reinforced bars ø28, l=4m BT3	BT7 7/12.6 excavation step ≤1.0m -face bolting IBO l=12m -shotcrete ds=5cm 1x wire mesh Q189 (50%) -shotcrete, ds=15cm -wire mesh 2 layers Q189 -steel rib TH16 -SN/IBOanchor,F=250kN,l=4m -ribbed reinf. bars ø28, l=3m -support body
SUPPORT MEASURES DETERMINED ON SITE	central tunnel		BT7 7/17.8 -shotcrete ds=5cm 1x wire mesh Q189 (50%) -shotcrete, ds=20cm -forepoling piles, l=3m	BT2 6/5.43 excavation step ≤1.3m -shotcrete, ds=5cm -ribbed reinforced bars ø28, l=3m -support body BT3 7/10 excavation step ≤1.0m -shotcrete, ds=15cm -wire mesh 2 layers Q189 -SN/IBO anchor,F=250kN,l=4m -support body	BT3 BT4 7/17.8 -face bolting IBO l=12m -shotcrete ds=5–10cm 1x wire mesh Q189 (50%) -shotcrete, ds=20cm -forepoling piles, l=3m BT10 7/17.8 -shotcrete, ds=20cm	BT2 6/5.43 excavation step ≤1.3m -shotcrete -ribbed reinforced bars ø28, l=3m -support body BT3	BT7 7/17.8 -shotcrete ds=5–10cm 1x wire mesh Q189 (50%) -shotcrete, ds=20cm -forepoling piles, l=3m
WARNING AN ALARM LEVELS	central tunnel	Calculated deformation	~0.5 cm	~1.0 cm	~1.5 cm	~1.0 cm	~0.5 cm
		60% deformation tolerances	6.0 cm	3.0 cm	6.0 cm	3.0 cm	6.0 cm
		100% deformation tolerances	10.0 cm	5.0 cm	10.0 cm	5.0 cm	10.0 cm

GEOTECHNICAL MEASUREMENTS	central tunnel
12+480	
12+500	
12+510	MS I–CP
12+515	MS I–CP
12+520	MS I–CP
12+525	MS I–CP
12+530	MS I–CP
12+535	MS I–CP
12+540	MS I–CP
12+550	MS I–CP
12+560	MS I–CP
12+570	MS I–CP
12+580	MS I–CP
12+590	MS I–CP
12+600	MS I–CP
12+610	MS I–CP
12+620	MS I–CP
12+625	MS II, MS III
12+630	MS I–CP
12+640	MS I–CP
12+650	MS I–CP
12+660	MS I–CP
12+670	MS I–CP
12+680	MS I–CP
12+690	MS I–CP
12+700	MS I–CP
12+705	MS I–CP
12+710	MS I–CP
12+715	MS I–CP
12+720	MS I–CP
12+725	MS I–CP
12+730	MS I–CP
12+740	
12+760	

LEGEND

- ALLUVIAL SOILS (CLAYS, SILTS, SANDS)
- SOILS AND SOIL-LIKE MATERIALS (TOPSOIL, RESIDUAL SOIL W6, COMPLETELY WEATHERED ROCK W5)
- MARLY CLAYSTONE, SILTSTONE, SANDSTONE, SANDS, FRACTURED AND DISINTEGRATED DUE TO SURFACE WEATHERING
- MARLY CLAYSTONE, SILTSTONE (< 50%), SANDSTONE & SANDS (> 50%)
- MARLY CLAYSTONE, SILTSTONE (> 70%), SANDSTONE & SANDS (< 30%)
- TECTONICALL HIGHLY DISTURBED
- TECTONICALLY DISTURBED
- FAULT, ASSUMED
- BEDDING

br./no.	promena/change	datum/date	ime/name

klijent/client: ЈАВНО ПРЕДУЗЕЋЕ ПУТЕВИ СРБИЈЕ

naslov/title:
SRSDD Standardni crteži putnih detalja u Republici Srbiji
SRSDD Serbian road standard detail drawings

crtež/drawing:
Plan iskopa
Excavation work plan

razmera/scale:1:1000 | datum/date: 30.4.2012 | strana/page: 7.2.1