

Idejni projekt lokalne ceste

Radović, Leo

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UNIVERSITY OF SPLIT



**SVEUČILIŠTE U SPLITU
FAKULTET GRAĐEVINARSTVA, ARHITEKTURE I GEODEZIJE**

ZAVRŠNI RAD

LEO RADOVIĆ

Split, 2023.

**SVEUČILIŠTE U SPLITU
FAKULTET GRAĐEVINARSTVA, ARHITEKTURE I
GEODEZIJE**

IDEJNI PROJEKT LOKALNE CESTE

Završni rad

Split, 2023.

Idejni projekt lokalne ceste

Sažetak:

Na geodetskoj podlozi uz pomoć programa AutoCAD Civil 3D te na osnovu zadatka iz kolegija Ceste, izrađen je idejni projekt lokalne ceste. Cesta je projektirana za godišnji dnevni promet (PGDP) od 950 vozila na dan, na brdovitom terenu. Projektom predviđena brzina ceste je 40 km/h. Idejno rješenje izrađeno je koristeći Pravilnik o osnovnim uvjetima za projektiranje ceste s elementima koji zadovoljavaju važeće propise, ako i sigurnosne i estetske kriterije.

Ključne riječi:

Idejni projekt, projektna brzina, lokalna cesta, os ceste, niveleta, poprečni presjek

Conceptual project of local road

Abstract:

On a geodetic basis with help of AutoCAD Civil 3D program and according to the task from course „Roads, a conceptual project of local road is made. The road is designed for annual daily traffic (AADT) of 950 vehicles per day, on hilly terrain. The predicted project speed of the road is 40 km/h. The conceptual solution of local road was created according to the Regulations on the basic conditions for design of public roads with the elements that meet the applicable rules, as well as safety and aesthetic criteria.

Keywords:

Local road, conceptual project, design speed, profile, cross-section, the road axis

**SVEUČILIŠTE U SPLITU
FAKULTET GRAĐEVINARSTVA, ARHITEKTURE I GEODEZIJE**

Split, Matice hrvatske 15

STUDIJ: **PREDDIPLOMSKI SVEUČILIŠNI STUDIJ
GRAĐEVINARSTVA**

KANDIDAT: **Leo Radović**

MATIČNI BROJ (JMBAG): 0083225633

KATEDRA: **Katedra za prometnice**

PREDMET: **Ceste**

ZADATAK ZA ZAVRŠNI RAD

Tema: Idejni projekt lokalne ceste

Opis zadatka: Na geodetskoj podlozi korištenoj za izradu programa u okviru kolegija „Ceste“, zadatak je izraditi idejni projekt lokalne ceste pomoću računalnog programa za projektiranje cesta AutoCAD Civil 3D. Trasu ceste potrebno je položiti od točke A do točke B koje su označene na geodtskoj podlozi pritom koristeći sve podatke iz programskog zadatka.

Zadatak treba sadržavati:

1. Kopiju programskog zadatka
2. Tehnički opis s prikazom korištenja programa Civil 3D
3. Građevinsku situaciju u mjerilu 1:1000
4. Uzdužni presjek u mjerilu 1:1000/100
5. Karakteristične poprečne presjeke u mjerilu 1:200
6. Obradu na računalu
7. Računalne ispise koordinatnih točaka osi
8. Proračun količina zemljanih radova
9. Proračun količine radova po presjecima

U Splitu, ožujak 2023.

Voditelj Završnog rada:

prof. dr. sc. Dražen Cvitanić

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1. PROGRAMSKI ZADTAK

Katedra za prometnice

Studij: Preddiplomski

Nastavni predmet: CESTE

Student/ica: LEO RADOVIĆ

ZADATAK

Treba izraditi idejni projekt dionice cešte između točaka A i B naznačenih na priloženoj geodetskoj podlozi u mjerilu 1:1000.

Zadano je:

- PGDP - prosječni godišnji dnevni promet: **950 voz/dan**
- vrsta terena: **brdoviti.**

Idejni projekt treba sadržavati:

1. Tehnički opis
2. Proračun horizontalne geometrije
3. Proračun proširenja kolnika u krivini (ukupno i po pojedinim presjecima)
4. Proračun vertikalne geometrije i kota nivelete
5. Proračun vitoperenja kolnika
6. Građevinska situacija MJ. 1:1000
7. Uzdužni presjek MJ. 1:1000/100
8. Normalni poprečni presjek MJ. 1:50
9. Karakteristični poprečni presjeci MJ. 1:100
10. Predmjer radova
11. Aproksimativni troškovnik

Predmetna nastavnica:


izv.prof.dr.sc. Deana Breški

2. TEHNIČKI OPIS

2.1. OPĆENITO

Na priloženoj geodetskoj podlozi u mjerilu 1:1000 izrađen je idejni projekt ceste na dionici od točke A koja se nalazi na 314 metara nadmorske visine, do točke B koja se nalazi na 294 metara nadmorske visine.

Cesta je projektirana na brdovitom terenu za prosječni godišnji dnevni promet od 950 vozila na dan.

Predviđena projektna brzina za ovu kategoriju ceste je $v_p = 40$ km/h.

Trasa konstruirane ceste ima dužinu od 342.21 m.

2.2. HORIZONTALNI ELEMENTI

Za odabranu projektnu brzinu $v_p = 40$ km/h prema Pravilniku minimalni radijus horizontalne krivine iznosi 45 m, a minimalna prijelaznica 30 m.

Trasa se sastoji od jednog pravca i dvije krivine.

Prva krivina ima radijus $R = 30$ m, duljinu prijelaznice $L = 25$ m (za $v_p = 30$ km/h), a druga krivina ima radijus $R = 45$ m, duljinu prijelaznice $L = 30$ m.

2.3. VERTIKALNI ELEMENTI

Maksimalni dozvoljeni nagib nivelete je 12%, dok je minimalni radijus vertikalne krivine je 300 m. Tok trase sastoji se od dva pravca i jedne krivine. Nagib prvog pravca je $S_1 = 6.01$ %, a drugog $S_2 = 5.70$ %.

Tangenta je dužine 1.55 m, a radijus vertikalne krivine je 500 m.

2.4. POPREČNI PRESJEK

Cesta ove kategorije ima dva kolnička traka širine svakog po 3,00 m i rubni trak širine 0,2 m. U nasipu bankine širine 1,0 m nagiba 4% i berma 4-5% širine 1,0 m u usjeku. Na usjecima se izvode rigoli za odvodnju vode 0,65 m i drenaža koja je postavljena u glinenu posteljicu.

Cesta se dijelom nalazi na nasipu, a dijelom u usjeku.

Poprečni nagib prve krivine je $q_1 = 6.25$ %, druge krivine $q_2 = 4.75$ % . Nagibi usjeka su 2:1, dok su nagibi nasipa 1:1. U dijelu nasipa koriste se potporni zidovi.

2.5. KOLNIČKA KONSTRUKCIJA

Projektom je predviđena slijedeća kolnička konstrukcija:

-asfaltbeton habajući sloj	AC 11 surf BIT (50/70) AG4 M4	4 cm
-bitumenizirani nosivi sloj	AC 11 surf BIT (50/70) AG4 M4	6 cm
-mehanički zbijeni nosivi sloj		30 cm

2.6. ODVODNJA

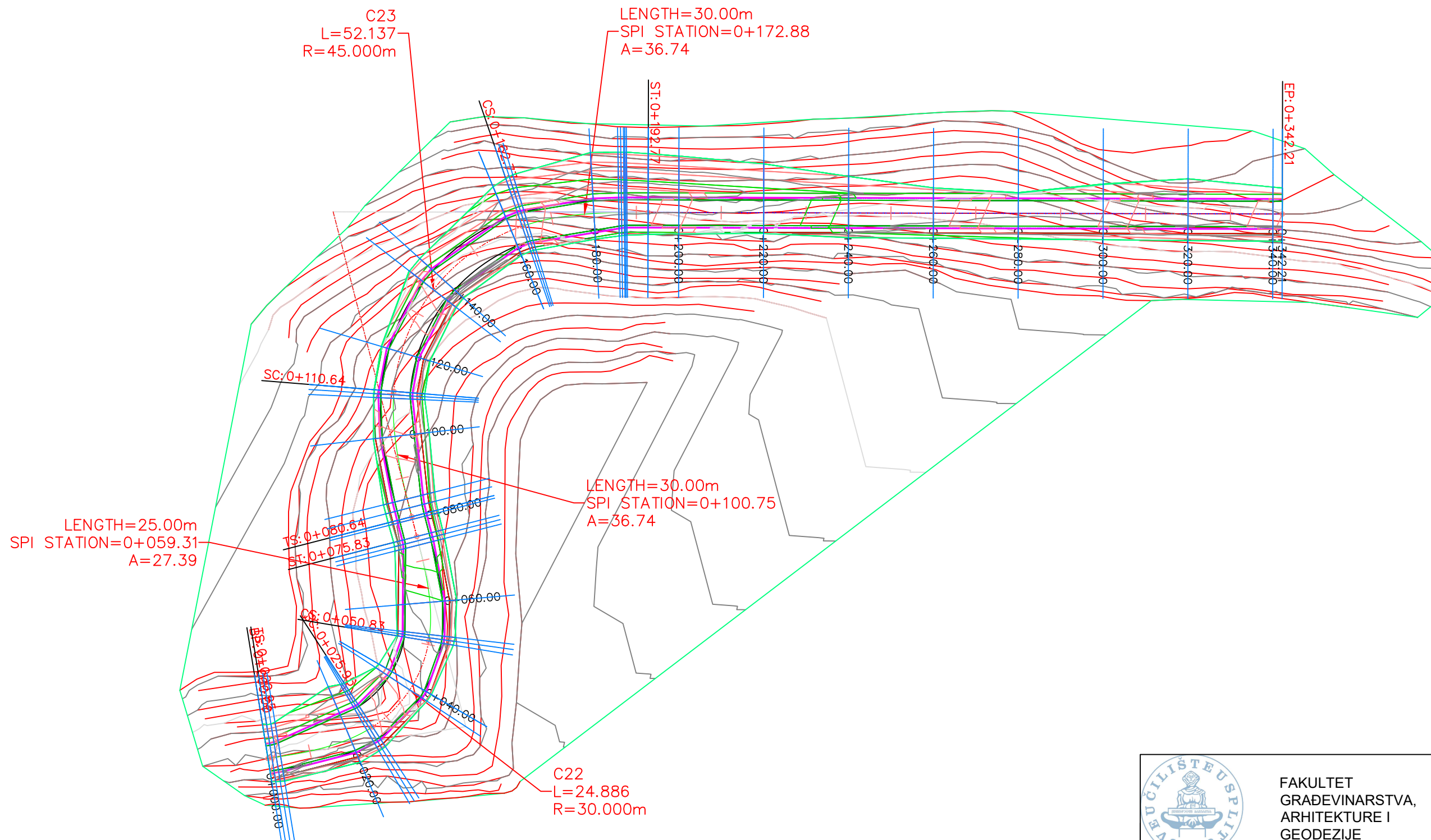
Odvodnja kolnika predviđa se otvorenim sustavom odvodnje prihvaćanjem kolničkih i pribrežnih voda u zasjeku i usjeku u betonske rigole, te kontroliranim ispuštanjem u teren direktno ili betonskim cijevnim propustima kroz trup kolnika.

2.7 OPREMA CESTE

Idjenim rješenjem je predviđena horizontalna signalizacija koja se sastoji od jedne pune razdjelne crte širine 10 cm koja se postavlja u osi prometnice i punih rubnih crta širine 10 cm koje se postavljaju na svaki od rubnih trakova.

3. GRAFIČKI PRILOZI

3.1. Situacija M 1:1000



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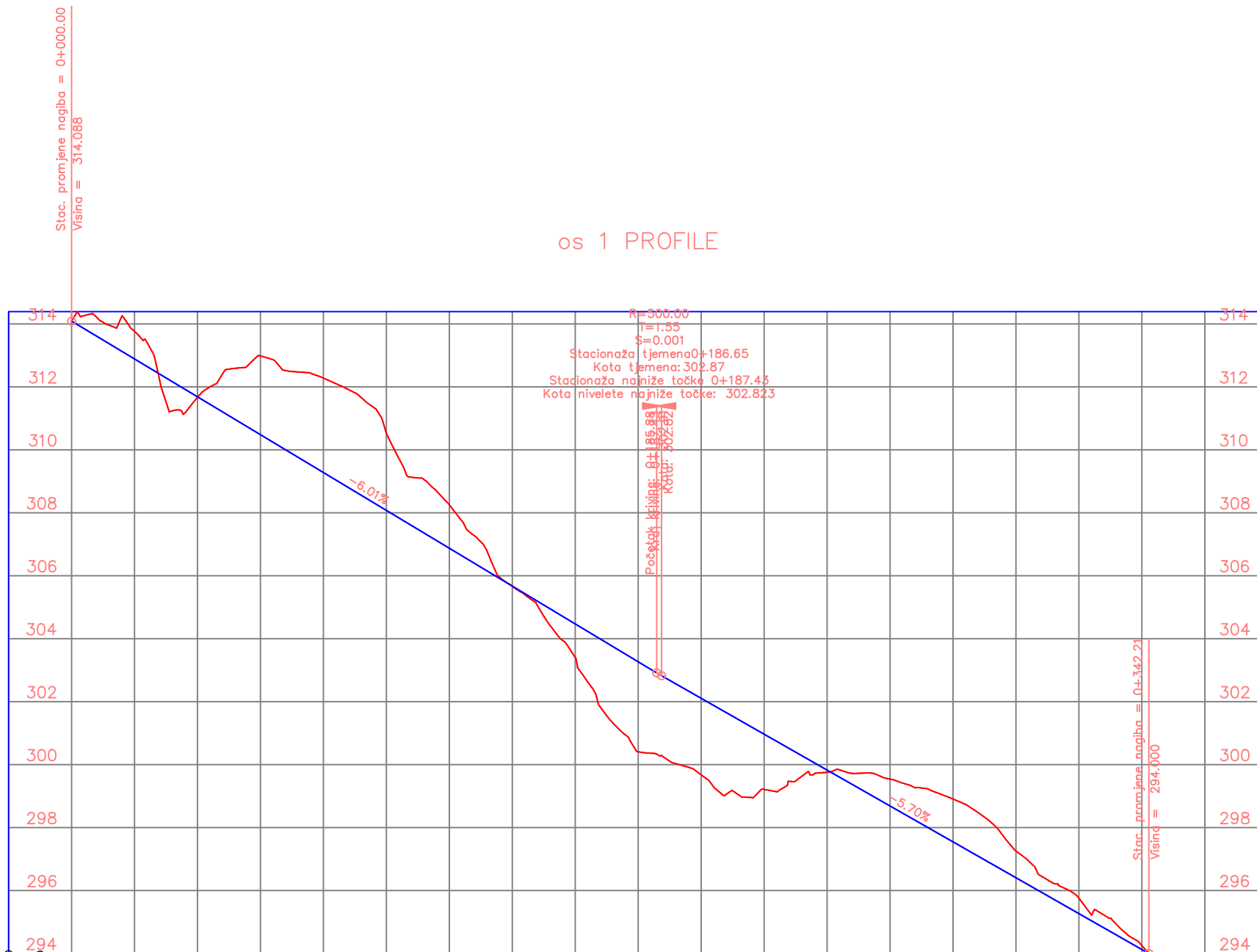
PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	GRAĐEVINSKA SITUACIJA
STUDENT	LEO RADOVIĆ

M
 1:1000

3.2. UZDUŽNI PRESJEK

M 1:1000/100

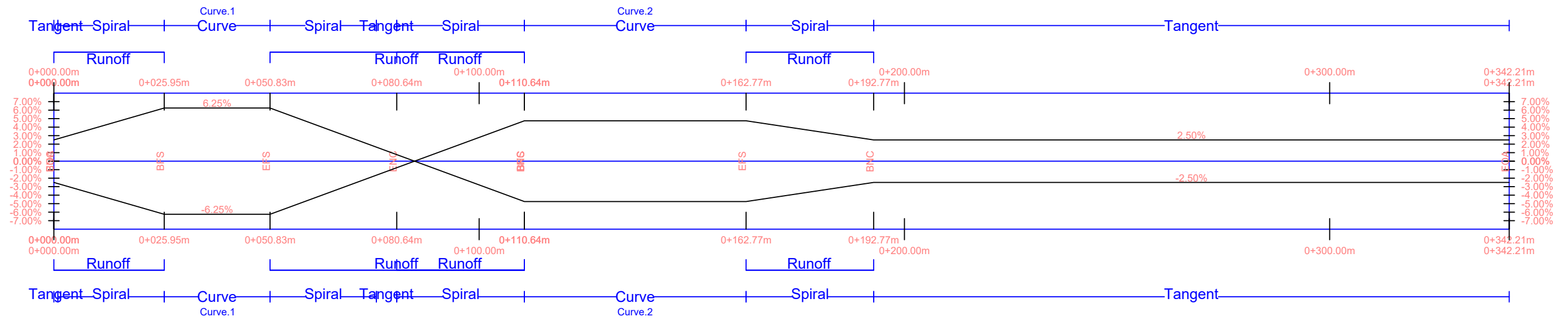
os 1 PROFILE



Stacionaža	0+000.00 -0+010.00 0+020.00 0+030.00 0+040.00 0+050.00 0+060.00 0+070.00 0+080.00 0+090.00 0+100.00 0+110.00 0+120.00 0+130.00 0+140.00 0+150.00 0+160.00 0+170.00 0+180.00 0+190.00 0+200.00 0+210.00 0+220.00 0+230.00 0+240.00 0+250.00 0+260.00 0+270.00 0+280.00 0+290.00 0+300.00 0+310.00 0+320.00 0+330.00 0+340.00 0+350.00 0+360.00 0+370.00 0+386.00
Kote nivelete	314.09 314.09 313.49 312.89 312.28 311.68 311.08 310.48 309.88 309.28 308.68 308.08 307.48 306.87 306.27 305.67 305.07 304.47 303.87 303.27 302.68 302.11 301.54 300.97 300.40 299.83 299.26 298.69 298.12 297.55 296.98 296.41 295.84 295.27 294.70 294.13 293.56 292.99 292.42
Kote terena	314.09 314.05 313.76 311.52 311.67 312.56 312.98 312.49 312.28 311.81 310.53 309.11 308.25 307.08 305.66 304.72 303.41 301.55 300.41 300.11 299.67 299.17 299.21 299.48 299.76 299.72 299.54 299.26 298.91 288.33 297.25 286.34 295.76 295.12 294.25
Horizontalni elementi	L = 0.95 N80° 43' 38"E L: 25.00 R: 30.00 L: 24.89 L: 25.00 L: 4.80 L: 30.00 R: 45.00 L: 52.14 L: 30.00 L = 149.44 S89° 52' 01"E
Vitoperenje	-2.50% -2.50% -6.25% -6.25% -6.25% -6.25% -6.25% -4.75% -4.75% -4.75% -4.75% -2.50% -2.50%

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	PREDMET	CESTE-ZAVRŠNI RAD	M 1:1000/100
	ZADATAK	IDEJNI PROJEKT	
	SADRŽAJ	UZDUŽNI PRESJEK	
STUDENT	LEO RADOVIĆ		

Superelevation

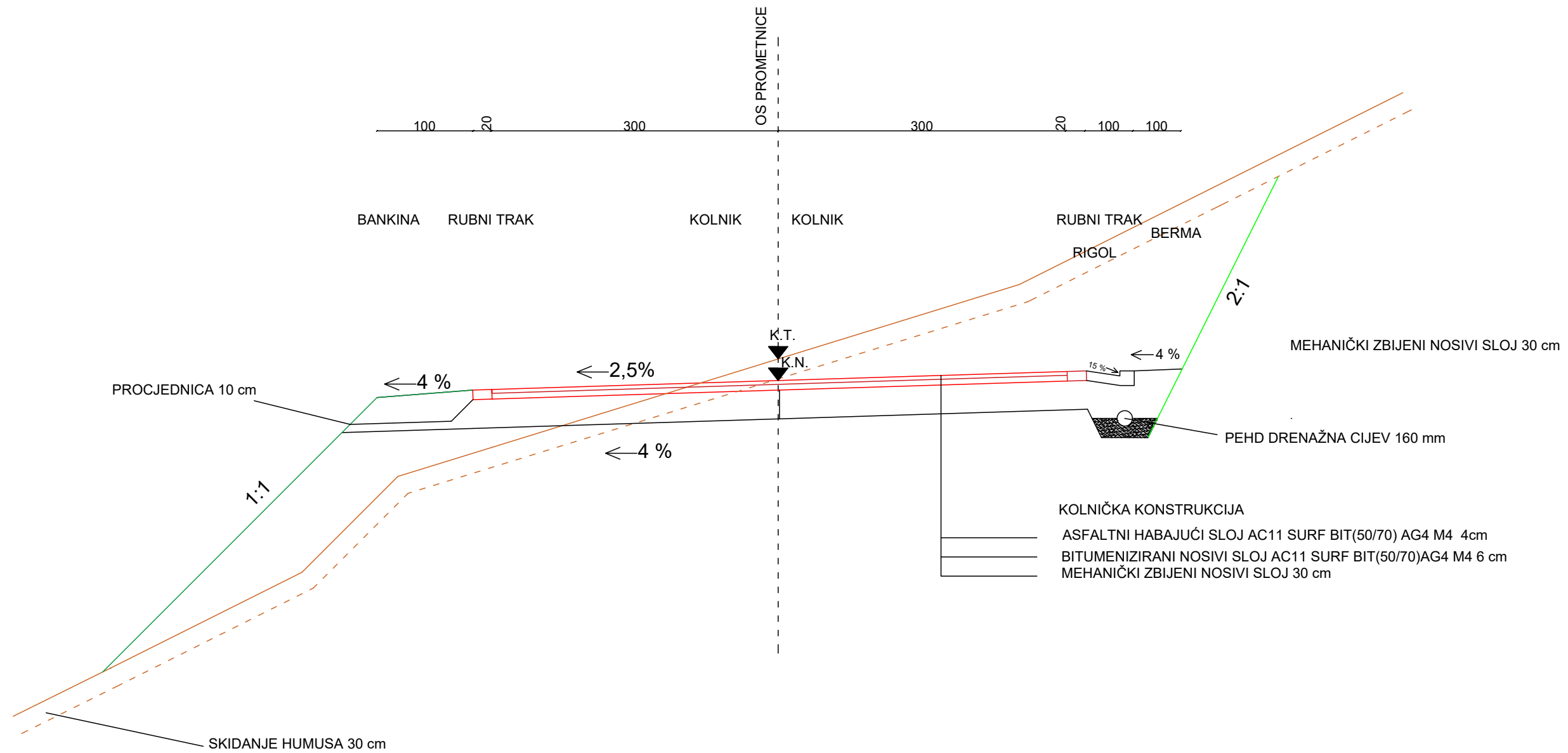


	FAKULTET GRAĐEVINARSTVA, ARHITEKTURE I GEODEZIJE	GODINA 2022./2023.	
	PREDMET	CESTE-ZAVRŠNI RAD	M 1:1000
	ZADATAK	IDEJNI PROJEKT	
	SADRŽAJ	DIJAGRAM VITOPERENJA	
STUDENT	LEO RADOVIĆ	15	

3.3. NORMALNI POPREČNI PRESJEK

M 1:50

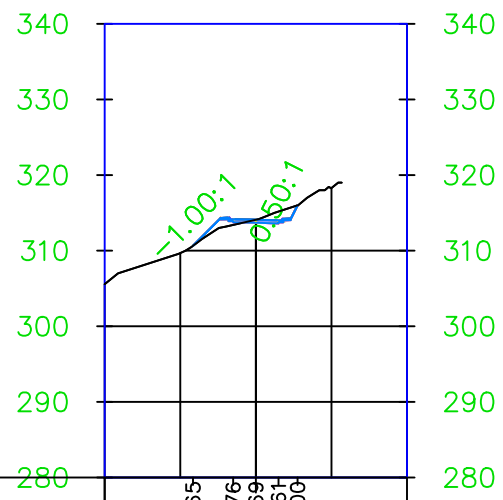
NORMALNI POPREČNI PRESJEK M 1:50



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PREDMET	CESTE-ZAVRŠNI RAD	M 1:50
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	NORMALNI POPREČNI PRESJEK	
STUDENT	LEO RADOVIĆ	

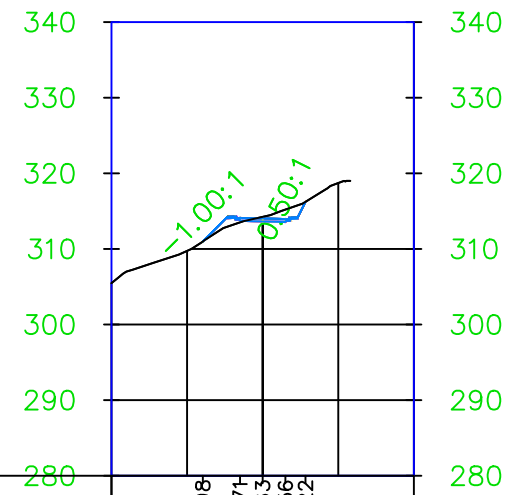
**3.4. KARAKTERISTIČNI
POPREČNI PRESJECI
M 1:200**

0+000.00



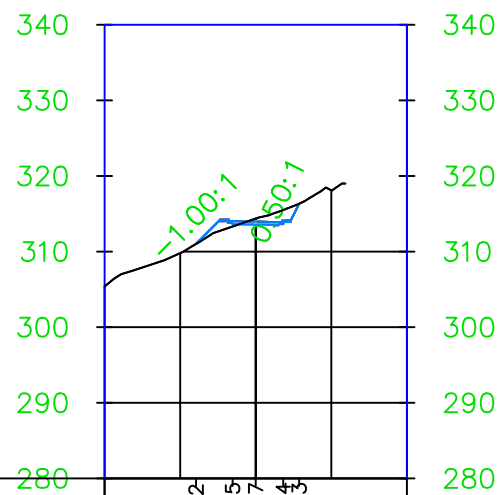
Kote projekta					
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Kote terena		310.65	313.76	313.69	

0+000.95



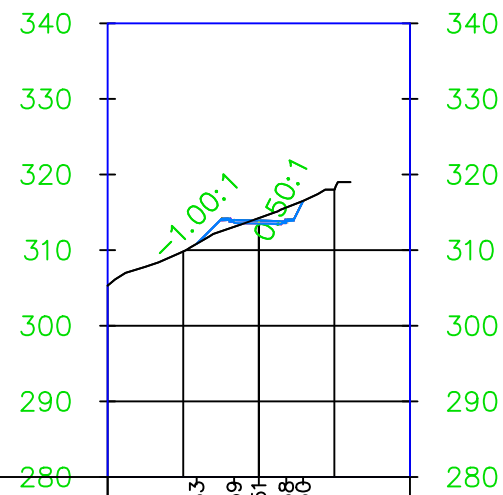
Kote projekta					
Udaljenost od osi	-20.000	-7.92	310.98	313.74	20.000
Kote terena		310.98	313.63	313.56	

0+001.99



Kote projekta					
Udaljenost od osi	-20.000	-7.89	311.02	313.65	20.000
Kote terena		311.02	313.57	313.94	

0+003.01



Kote projekta					
Udaljenost od osi	-20.000	-8.22	310.83	313.51	20.000
Kote terena		310.83	313.58	316.50	

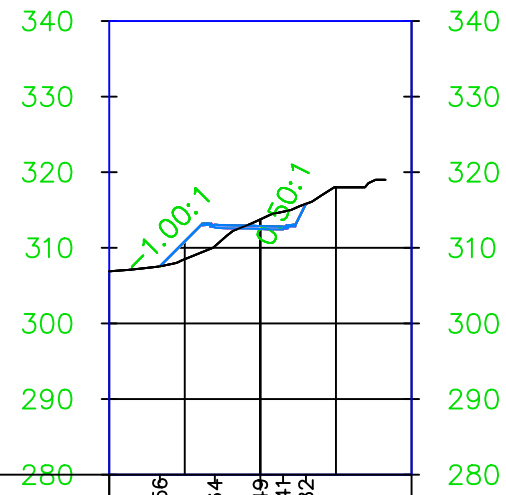


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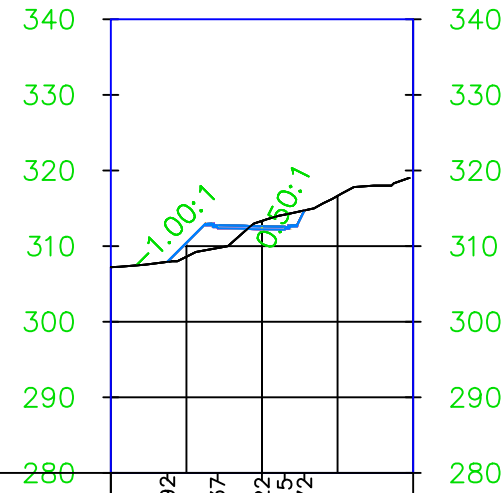
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ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

0+020.00



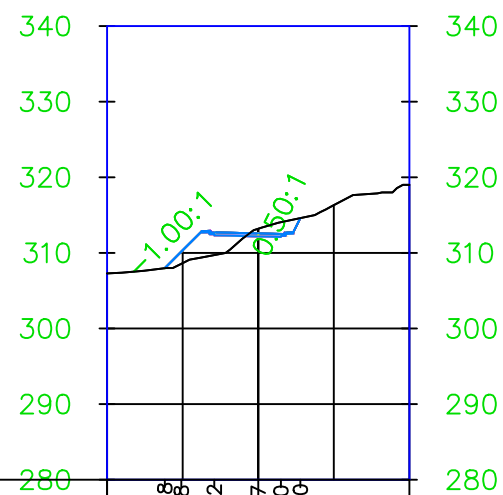
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Udaljenost od osi		312.64	-6.02	312.64	
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		312.41	3.00	312.41	
		315.82	6.03	315.82	

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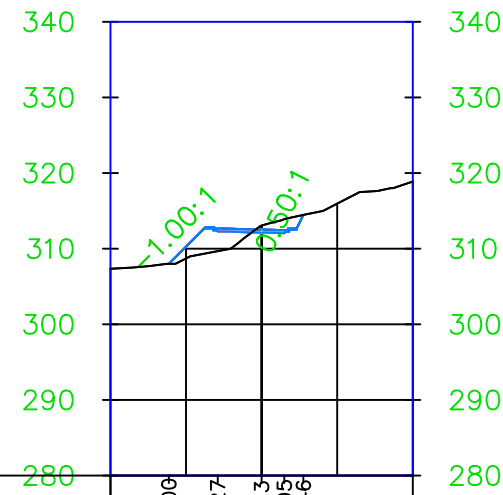
Kote projekta	20.000	307.92	12.54	307.92	20.000
Udaljenost od osi		312.37	-5.87	312.37	
Kote terena		312.22	0.00	312.22	
		312.15	3.00	312.15	
		314.72	5.61	314.72	

0+025.17



Kote projekta	20.000	307.98	12.35	307.98	20.000
Udaljenost od osi		310.18	-10.17	310.18	
Kote terena		312.32	-5.82	312.32	
		312.17	0.00	312.17	
		312.10	3.00	312.10	
		314.60	5.57	314.60	

0+025.95



Kote projekta	20.000	308.00	12.27	308.00	20.000
Udaljenost od osi		312.27	-5.80	312.27	
Kote terena		312.13	0.00	312.13	
		312.05	3.00	312.05	
		314.46	5.53	314.46	



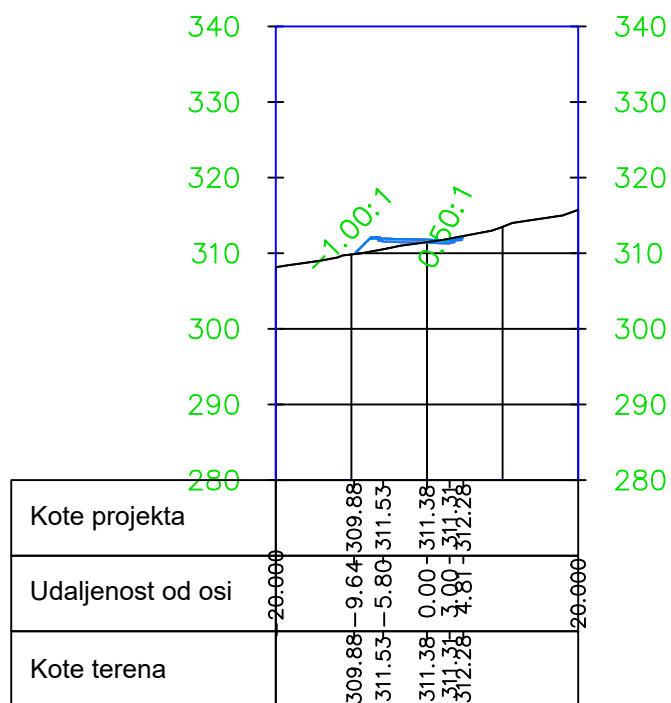
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ARHITEKTURE I
GEODEZIJE

GODINA
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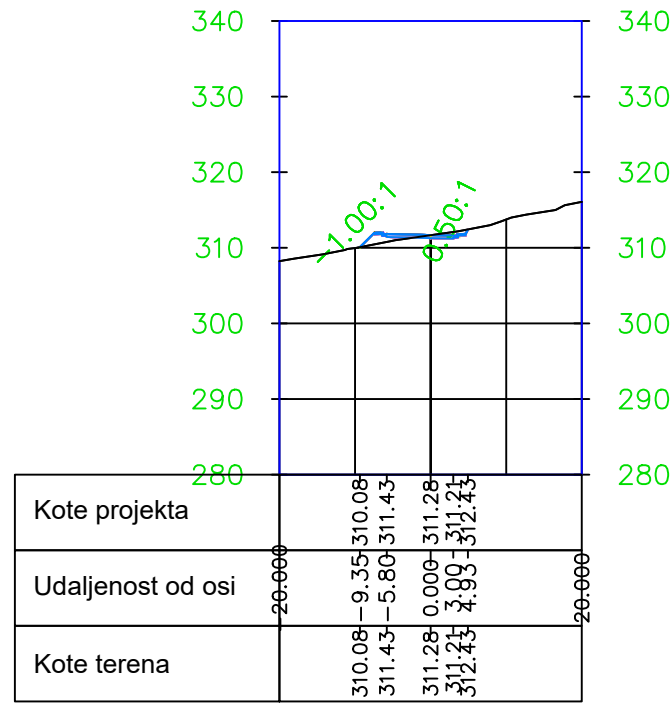
PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

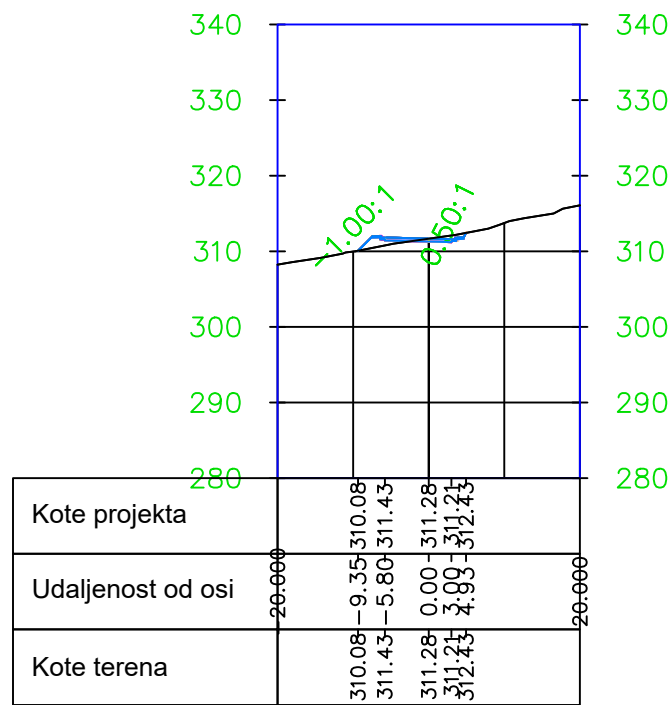
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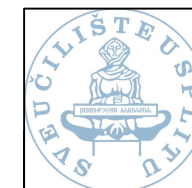
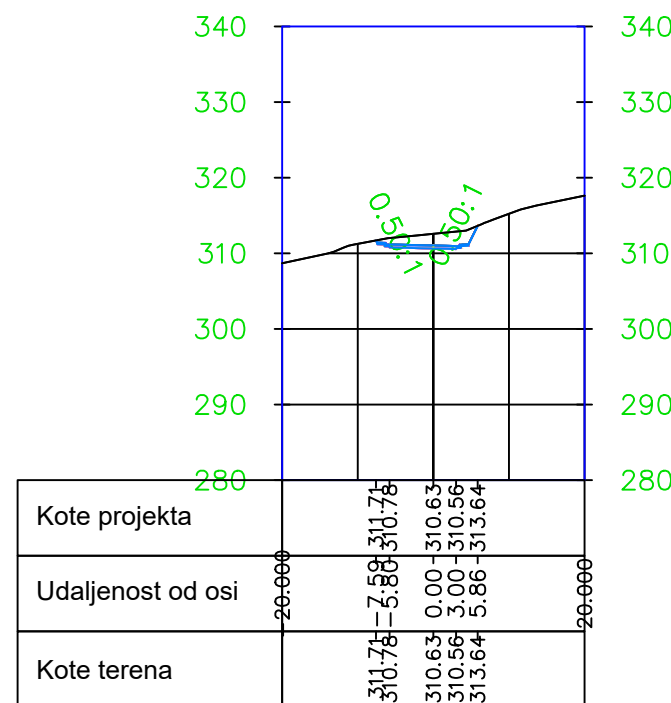
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0+040.00



0+050.83



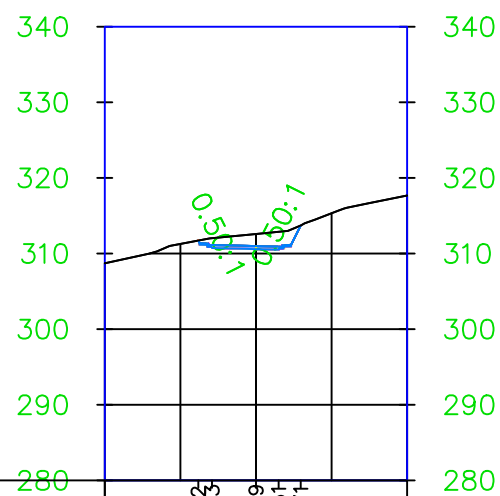
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PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

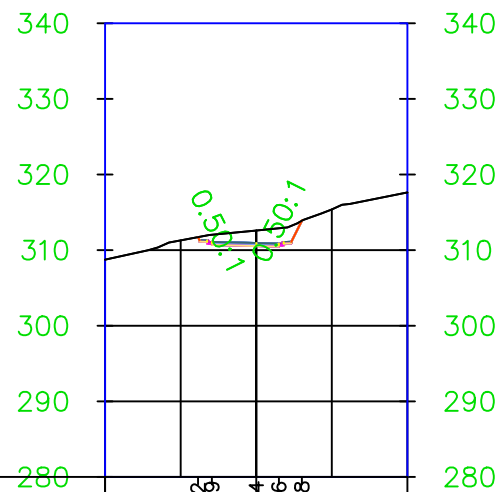
M 1:200

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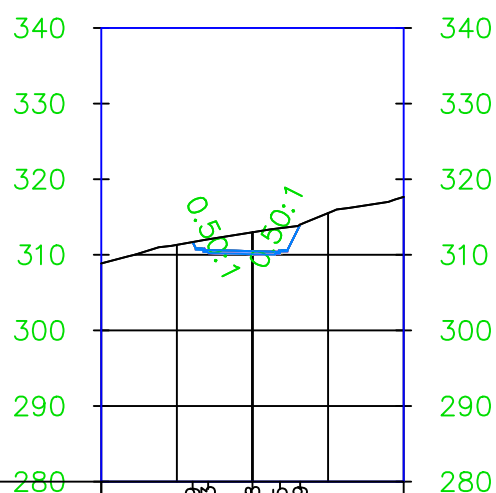
Kote projekta		310.73	310.73	310.59	310.59	310.51	313.71
Udaljenost od osi	20.000	-7.83	0.00	3.00	5.92		20.000
Kote terena		310.73	310.59	310.51	313.71		

0+052.37



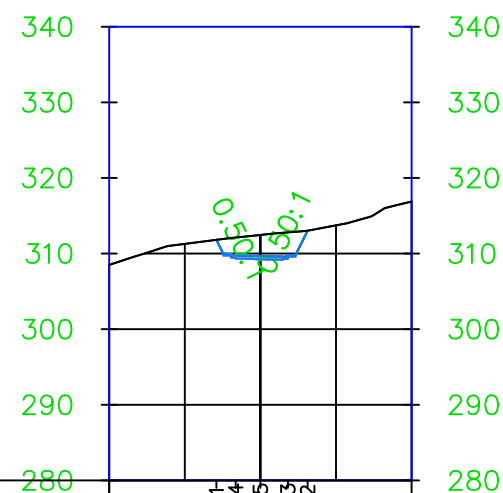
Kote projekta		310.69	310.69	310.54	310.46	313.88	
Udaljenost od osi	20.000	-7.81	0.00	3.00	6.03		20.000
Kote terena		310.69	310.54	310.46	313.88		

0+060.00



Kote projekta		311.69	311.69	310.08	310.15	313.99	
Udaljenost od osi	20.000	-7.91	0.00	3.64	6.31		20.000
Kote terena		311.69	310.08	310.15	313.99		

0+073.77



Kote projekta		311.81	311.81	309.34	309.25	309.33	313.02
Udaljenost od osi	20.000	-5.83	0.00	3.27	3.64	6.24	20.000
Kote terena		311.81	309.34	309.25	309.33	313.02	



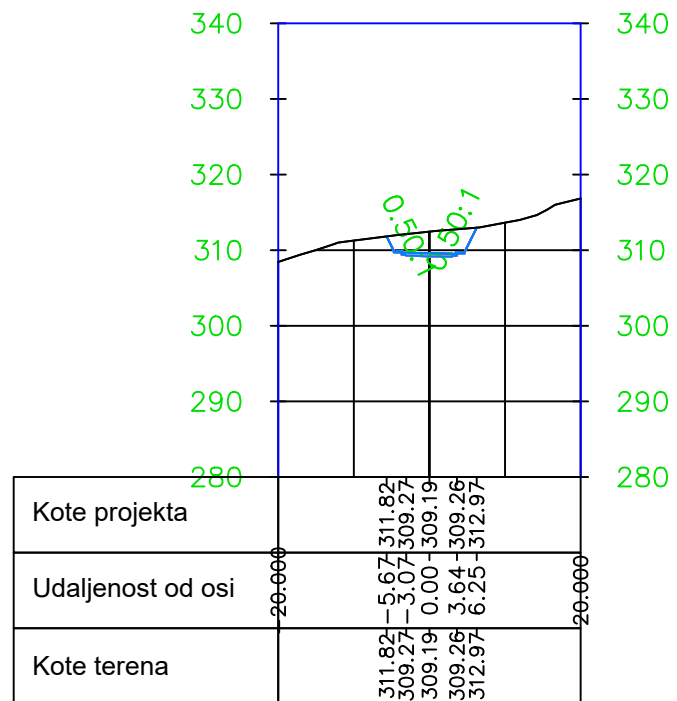
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GODINA
2022./2023.

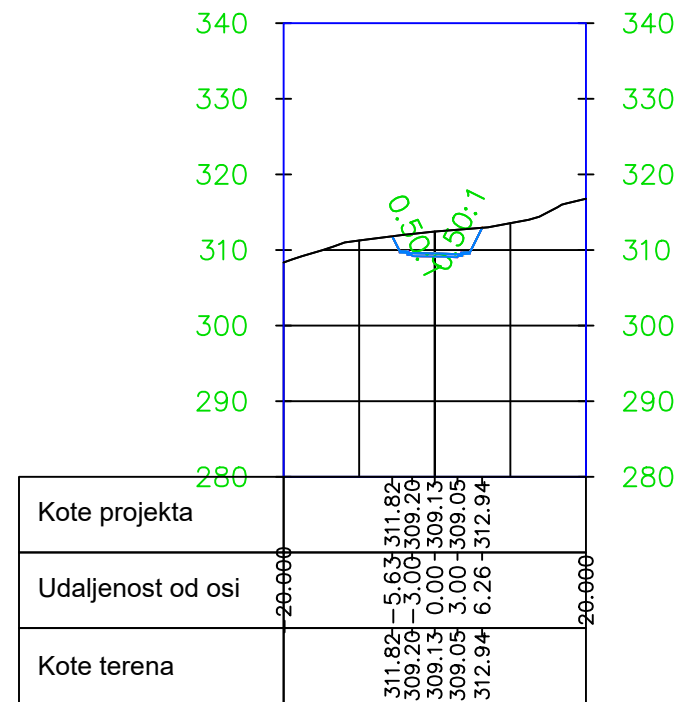
PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

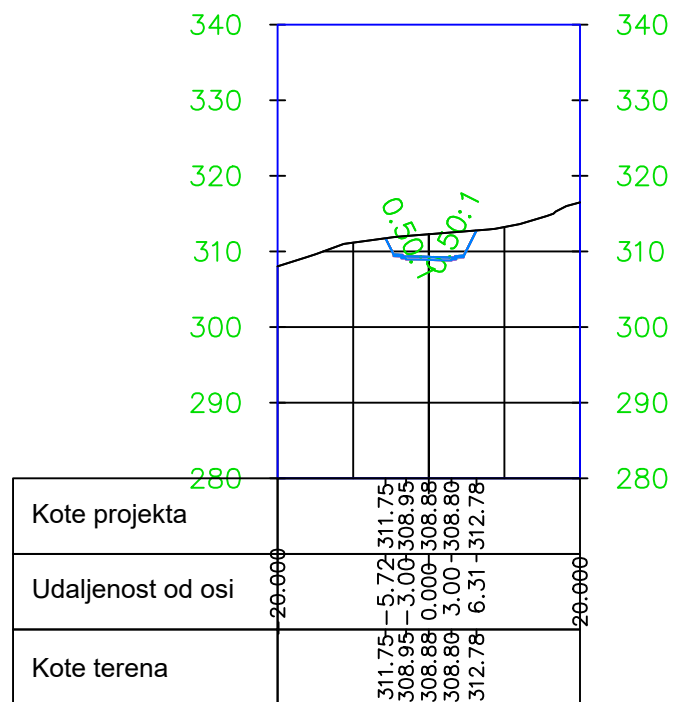
0+074.79



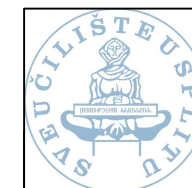
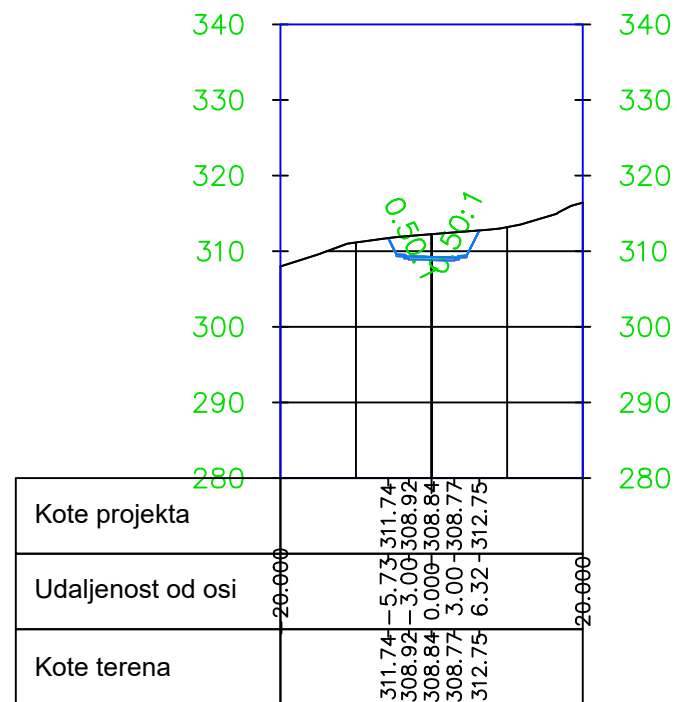
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0+080.00



0+080.64



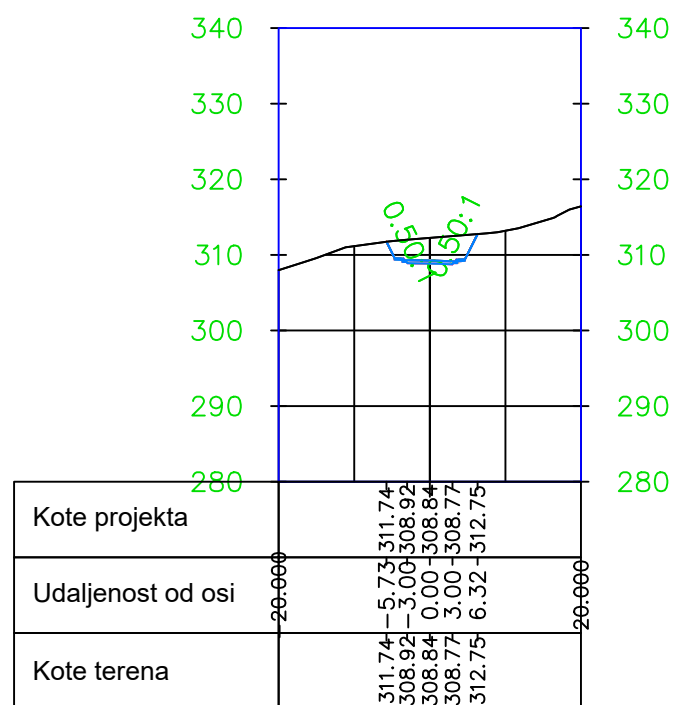
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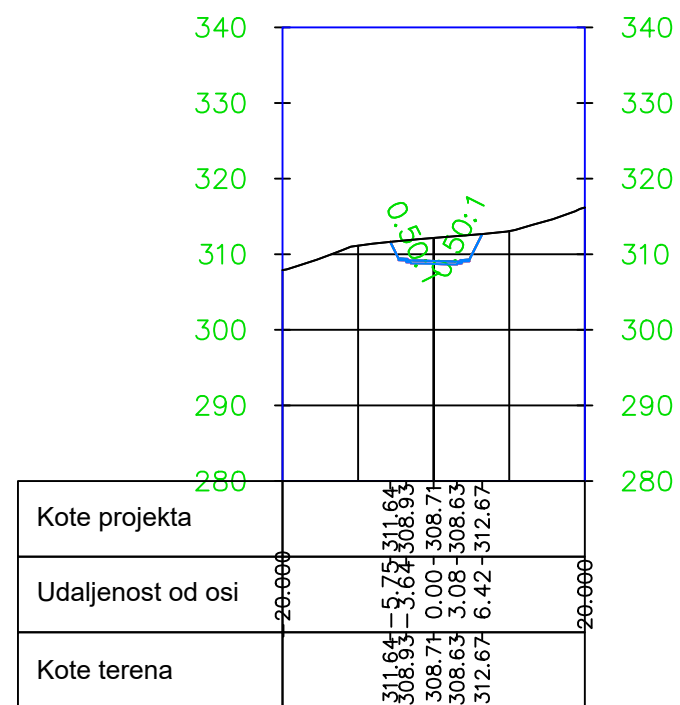
PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

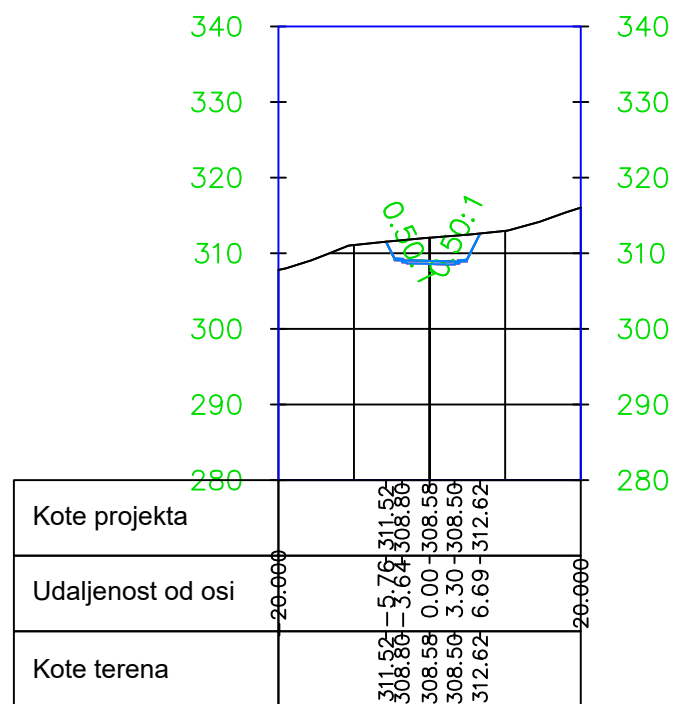
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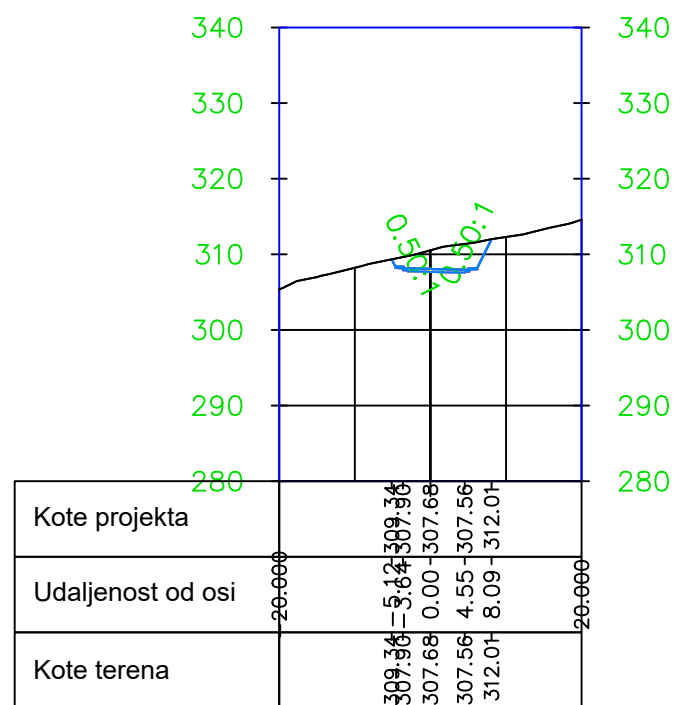
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0+084.97



0+100.00

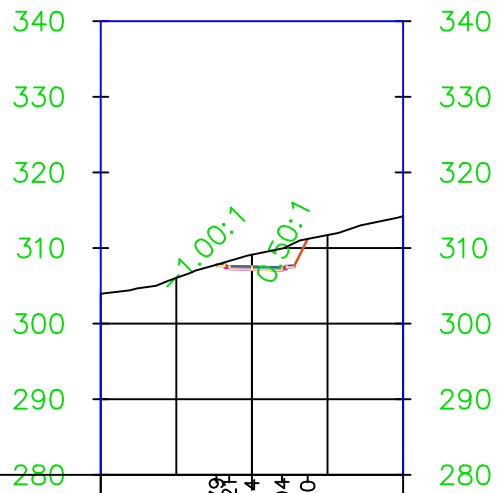


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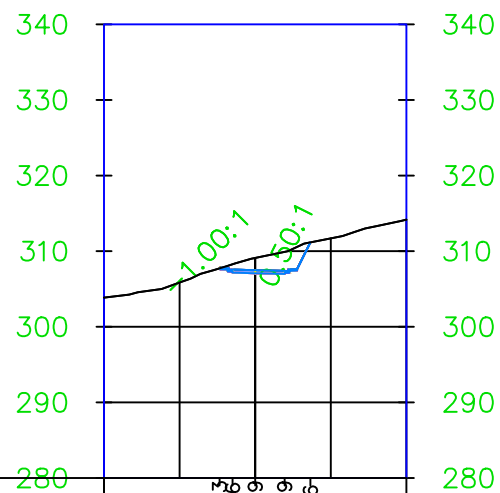
PREDMET	CESTE-ZAVRŠNI RAD	M 1:200
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

0+108.99



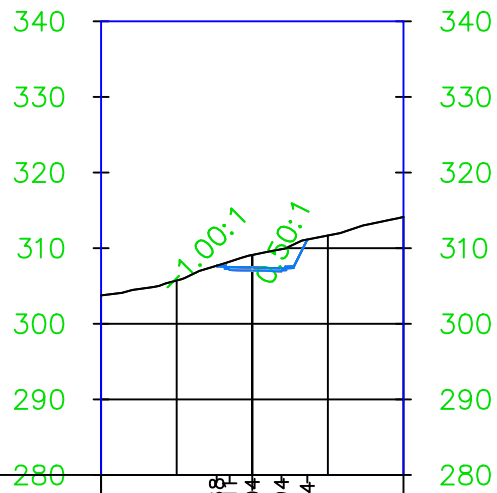
Kote projekta	20+000	307.79	307.79	307.79	20+000
Udaljenost od osi		-4.70	0.00	3.98	
Kote terena		307.79	307.14	311.20	

0+109.81



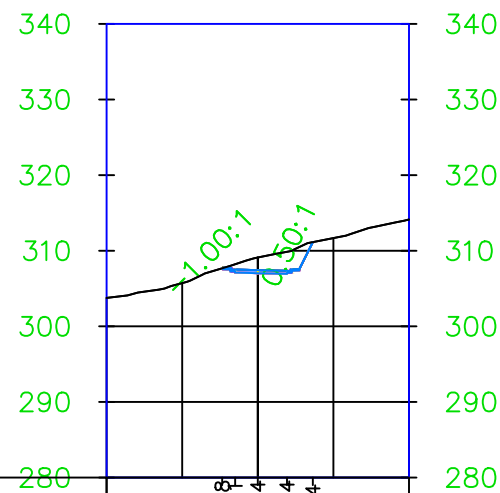
Kote projekta	20+000	307.76	307.76	307.76	20+000
Udaljenost od osi		-4.70	0.00	3.89	
Kote terena		307.76	307.09	311.16	

0+110.64

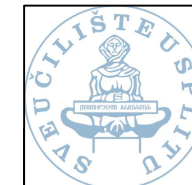


Kote projekta	20+000	307.68	307.68	307.68	20+000
Udaljenost od osi		-4.70	0.00	3.86	
Kote terena		307.68	307.04	311.14	

0+110.64



Kote projekta	20+000	307.68	307.68	307.68	20+000
Udaljenost od osi		-4.70	0.00	3.86	
Kote terena		307.68	307.04	311.14	



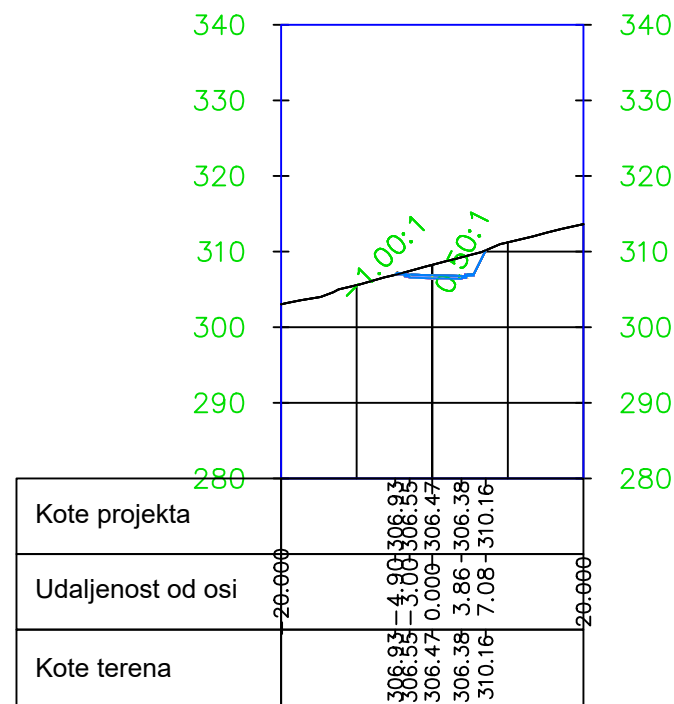
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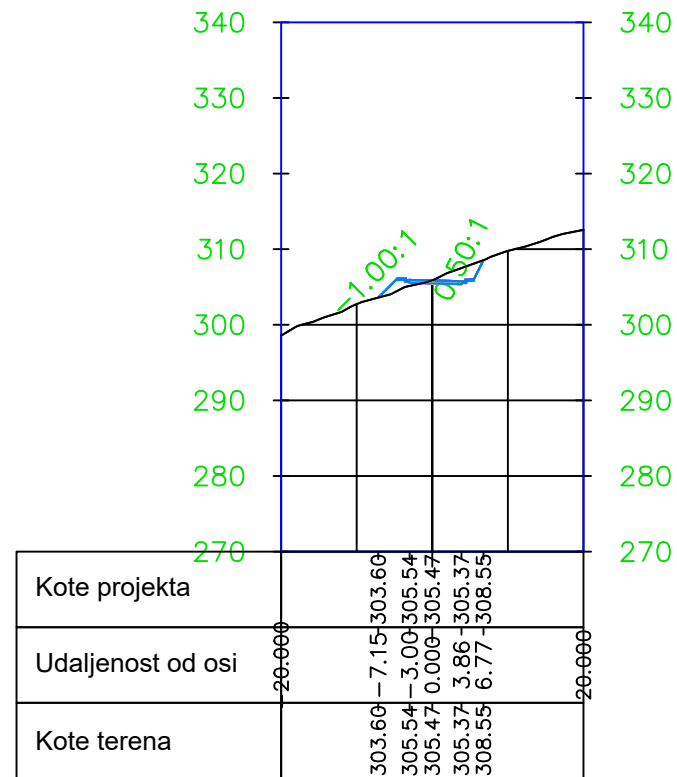
PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

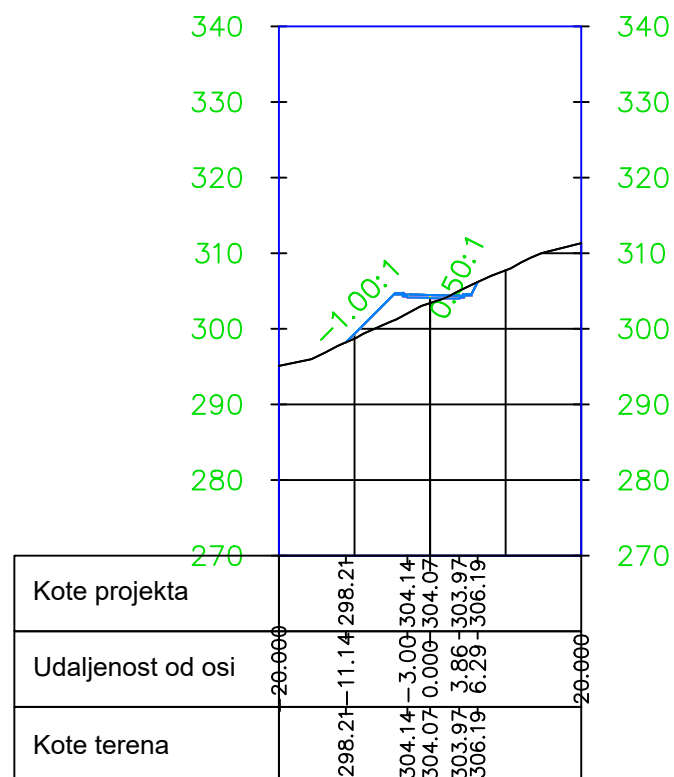
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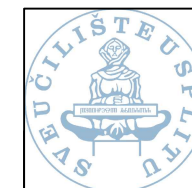
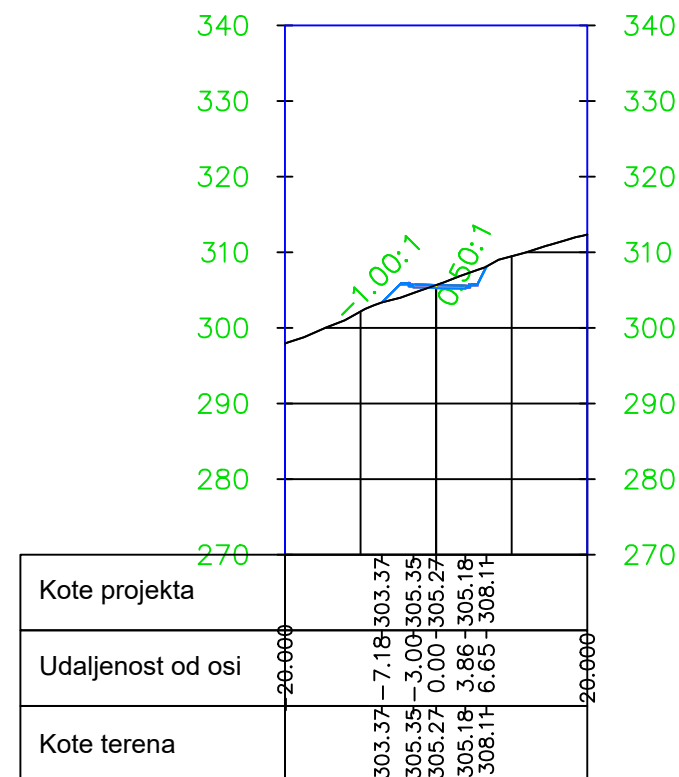
0+136.70



0+160.00



0+140.00



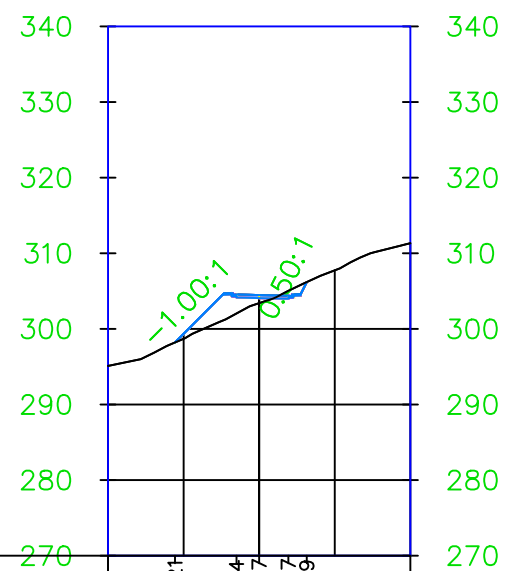
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ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

0+160.00



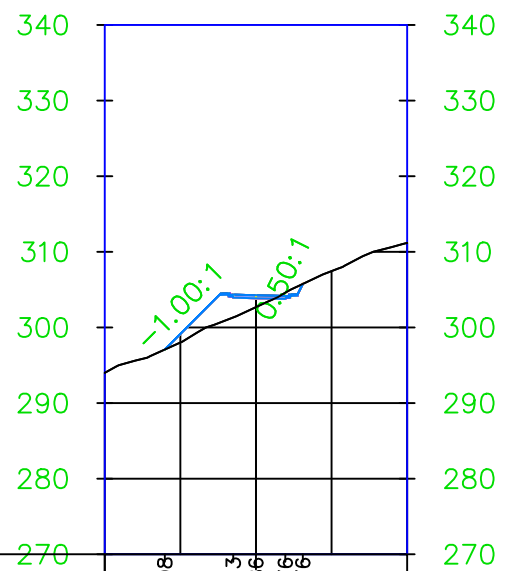
Kote projekta	20.000	11.14	298.21	304.14	3.00	304.14	304.07	0.00	304.07	303.97	3.86	303.97	306.19	6.29	306.19	20.000
Udaljenost od osi	20.000	11.14	298.21	304.14	3.00	304.14	304.07	0.00	304.07	303.97	3.86	303.97	306.19	6.29	306.19	20.000
Kote terena	20.000	11.14	298.21	304.14	3.00	304.14	304.07	0.00	304.07	303.97	3.86	303.97	306.19	6.29	306.19	20.000

0+162.77



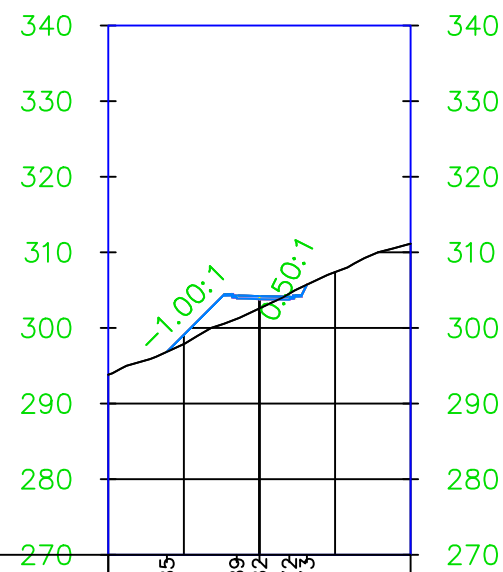
Kote projekta	20.000	11.88	297.30	303.98	3.00	303.98	303.90	0.00	303.90	303.81	3.86	303.81	305.82	6.19	305.82	20.000
Udaljenost od osi	20.000	11.88	297.30	303.98	3.00	303.98	303.90	0.00	303.90	303.81	3.86	303.81	305.82	6.19	305.82	20.000
Kote terena	20.000	11.88	297.30	303.98	3.00	303.98	303.90	0.00	303.90	303.81	3.86	303.81	305.82	6.19	305.82	20.000

0+163.50

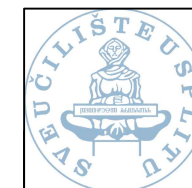


Kote projekta	20.000	12.05	297.08	303.93	3.00	303.93	303.86	0.00	303.86	303.76	3.88	303.76	305.76	6.20	305.76	20.000
Udaljenost od osi	20.000	12.05	297.08	303.93	3.00	303.93	303.86	0.00	303.86	303.76	3.88	303.76	305.76	6.20	305.76	20.000
Kote terena	20.000	12.05	297.08	303.93	3.00	303.93	303.86	0.00	303.86	303.76	3.88	303.76	305.76	6.20	305.76	20.000

0+164.23



Kote projekta	20.000	12.24	296.85	303.89	3.00	303.89	303.82	0.00	303.82	303.73	3.95	303.73	305.73	6.28	305.73	20.000
Udaljenost od osi	20.000	12.24	296.85	303.89	3.00	303.89	303.82	0.00	303.82	303.73	3.95	303.73	305.73	6.28	305.73	20.000
Kote terena	20.000	12.24	296.85	303.89	3.00	303.89	303.82	0.00	303.82	303.73	3.95	303.73	305.73	6.28	305.73	20.000

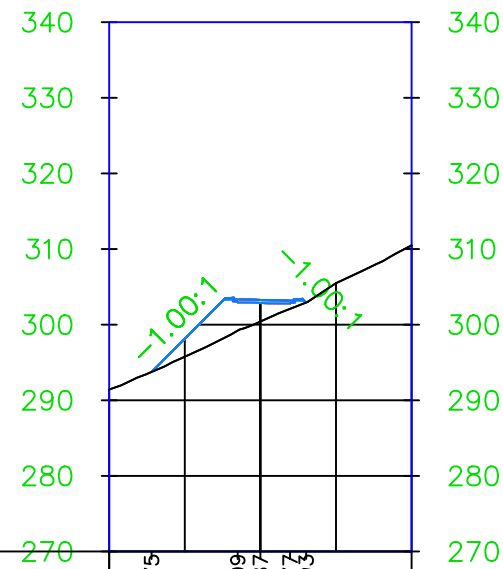


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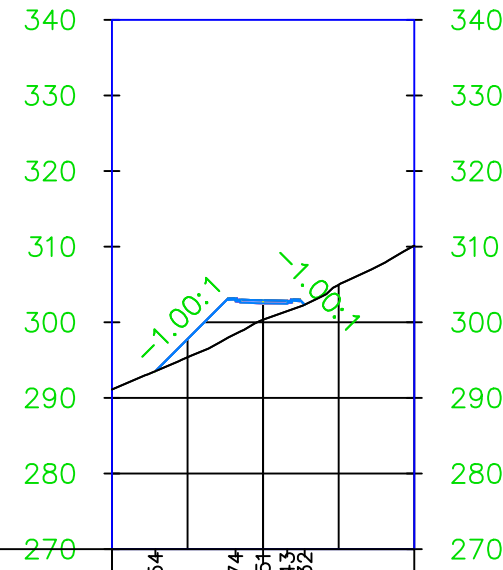
PREDMET	CESTE-ZAVRŠNI RAD	M 1:200
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

0+180.00



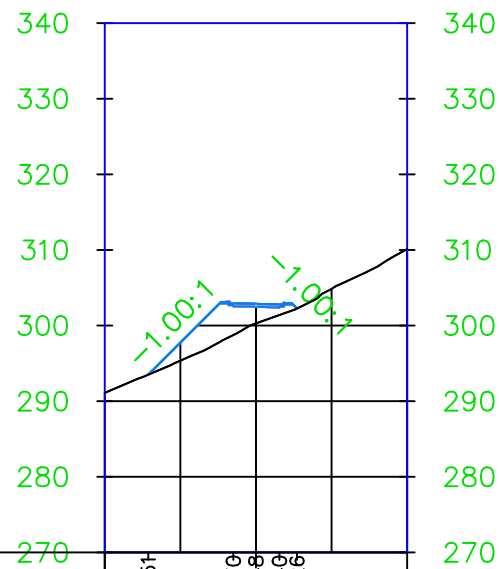
Kote projekta	20.000	293.75	14.39	293.75	303.09	-3.00	303.09	302.87	0.00	302.87	302.77	302.77	302.63	20.000
Udaljenost od osi														
Kote terena														

0+185.88



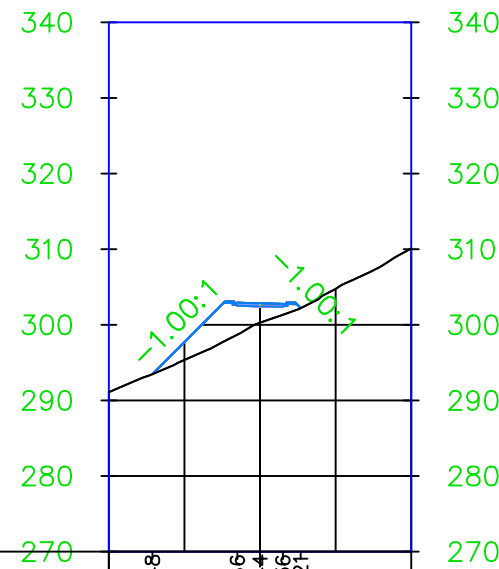
Kote projekta	20.000	293.54	14.25	293.54	302.74	-3.64	302.74	302.51	0.00	302.51	302.43	302.32	20.000
Udaljenost od osi													
Kote terena													

0+186.51



Kote projekta	20.000	293.51	14.25	293.51	302.70	-3.00	302.70	302.48	0.00	302.48	302.40	302.26	20.000
Udaljenost od osi													
Kote terena													

0+187.14



Kote projekta	20.000	293.48	14.24	293.48	302.66	-3.00	302.66	302.44	0.00	302.44	302.36	302.21	20.000
Udaljenost od osi													
Kote terena													

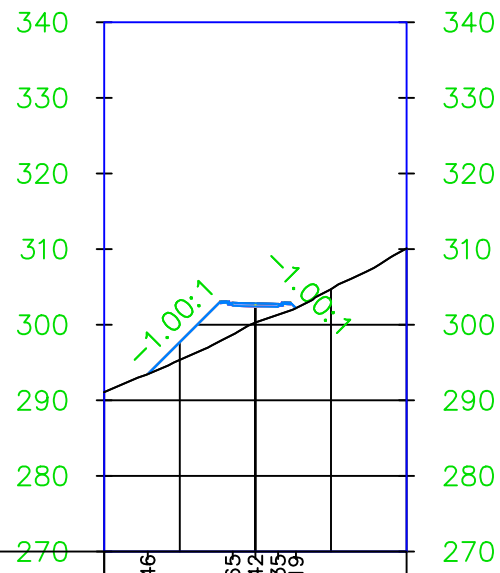


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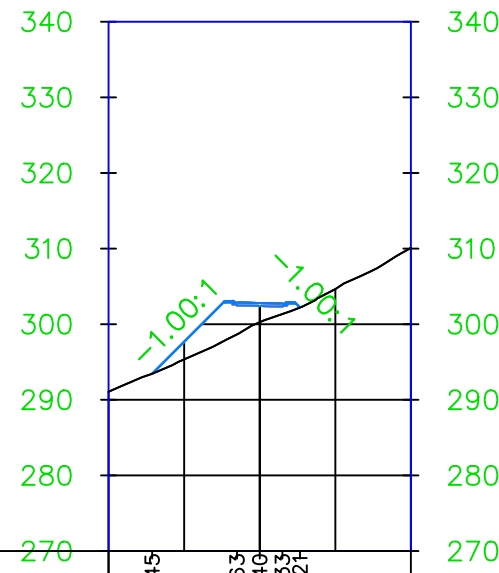
PREDMET	CESTE-ZAVRŠNI RAD	M 1:200
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

0+187.43



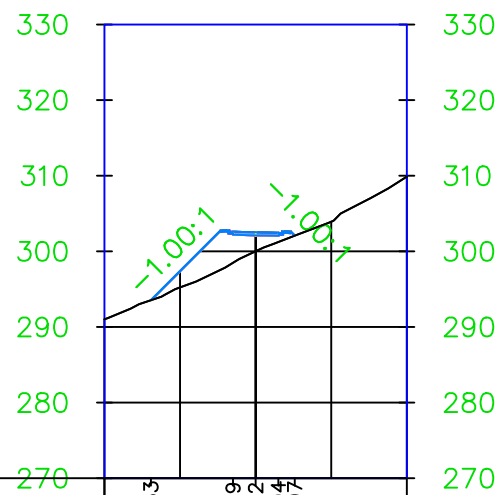
Kote projekta	293.46	302.65	302.42	302.35	302.19
Udaljenost od osi	0.00	14.23	3.00	0.00	5.36
Kote terena	293.46	302.65	302.42	302.35	302.19

0+187.77



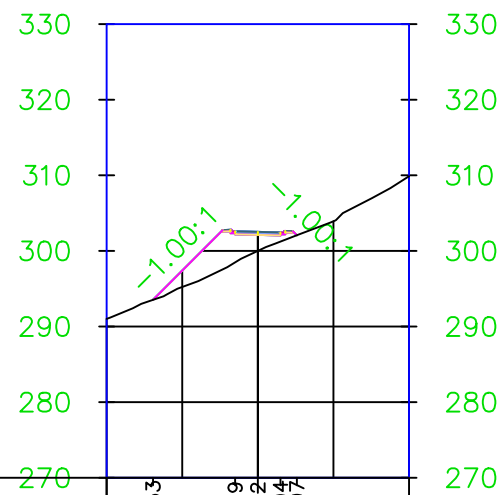
Kote projekta	293.45	302.63	302.40	302.33	302.21
Udaljenost od osi	0.00	14.23	3.00	0.00	5.32
Kote terena	293.45	302.63	302.40	302.33	302.21

0+192.77

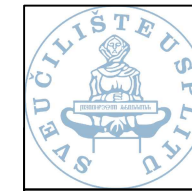


Kote projekta	293.53	302.19	302.12	302.04	302.07
Udaljenost od osi	0.00	13.86	3.00	0.00	5.17
Kote terena	293.53	302.19	302.12	302.04	302.07

0+192.77



Kote projekta	293.53	302.19	302.12	302.04	302.07
Udaljenost od osi	0.00	13.86	3.00	0.00	5.17
Kote terena	293.53	302.19	302.12	302.04	302.07



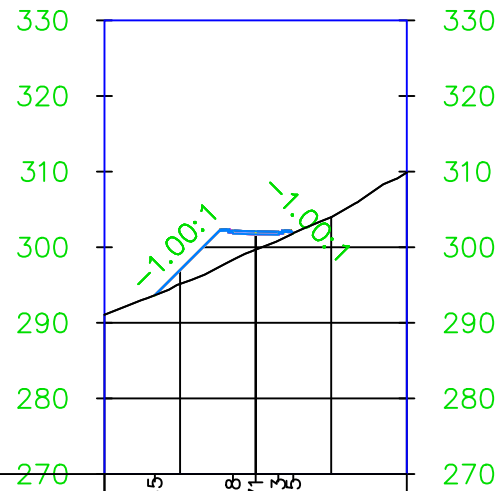
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PREDMET	CESTE-ZAVRŠNI RAD
ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

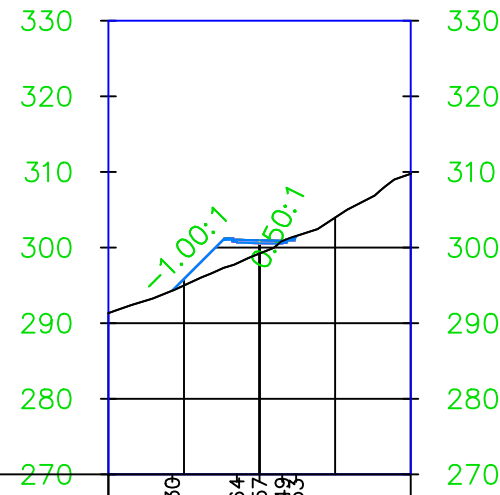
M 1:200

0+200.00



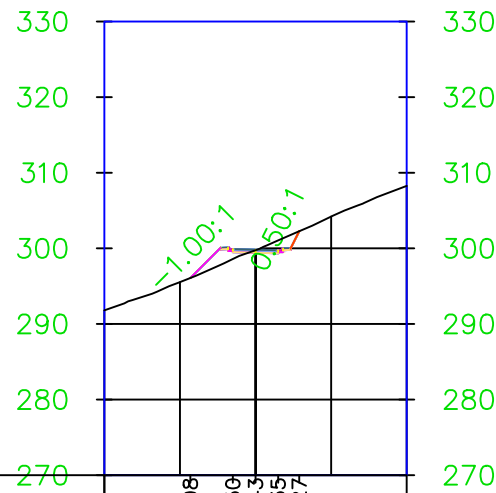
Kote projekta	20.000	293.65	13.33	293.65	301.78	3.00	301.78	301.71	0.00	301.71	301.83	4.98	301.83	20.000
Udaljenost od osi														
Kote terena														

0+220.00



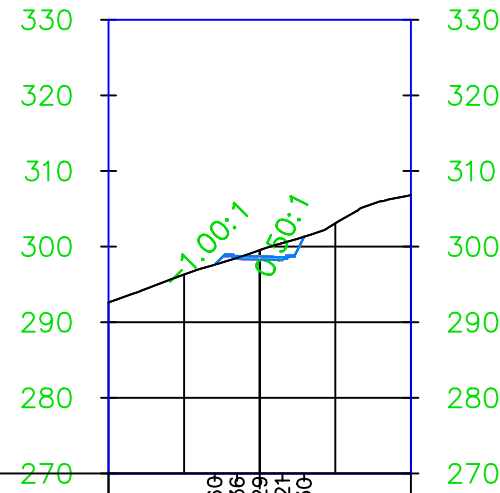
Kote projekta	20.000	294.30	11.54	294.30	300.64	3.00	300.64	300.57	0.00	300.57	300.49	7.80	300.49	20.000
Udaljenost od osi														
Kote terena														

0+240.00



Kote projekta	20.000	296.08	8.62	296.08	299.50	3.00	299.50	299.43	0.00	299.43	299.35	3.00	299.35	302.27	20.000
Udaljenost od osi															
Kote terena															

0+260.00



Kote projekta	20.000	297.60	5.96	297.60	298.36	3.00	298.36	298.29	0.00	298.29	298.21	3.00	298.21	301.30	20.000
Udaljenost od osi															
Kote terena															

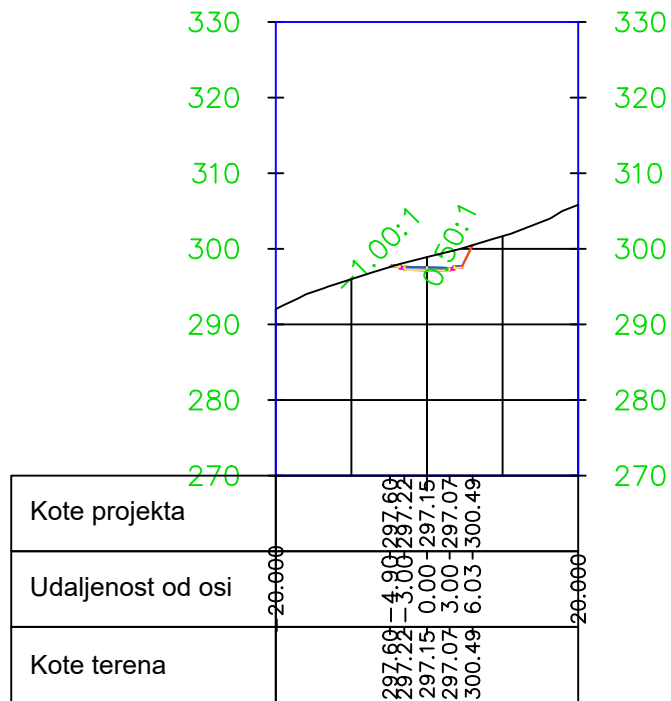


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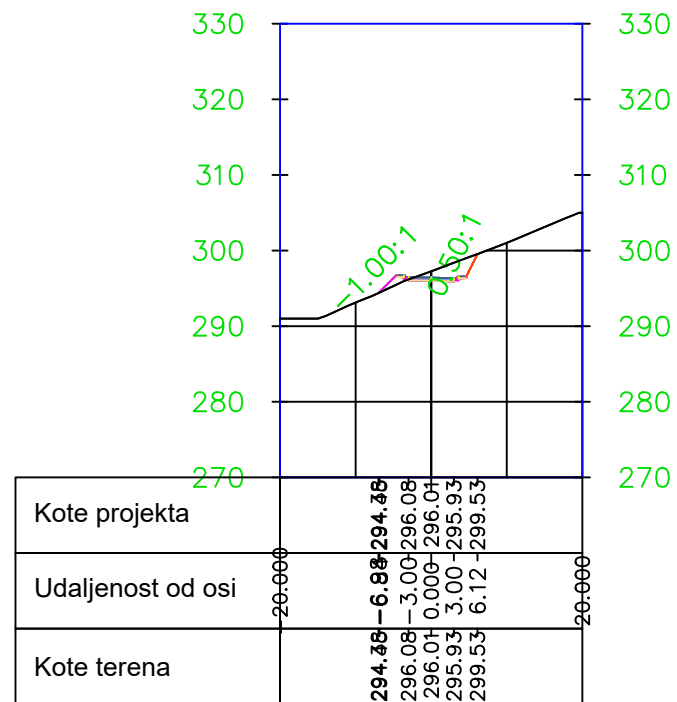
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PREDMET	CESTE-ZAVRŠNI RAD	M 1:200
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

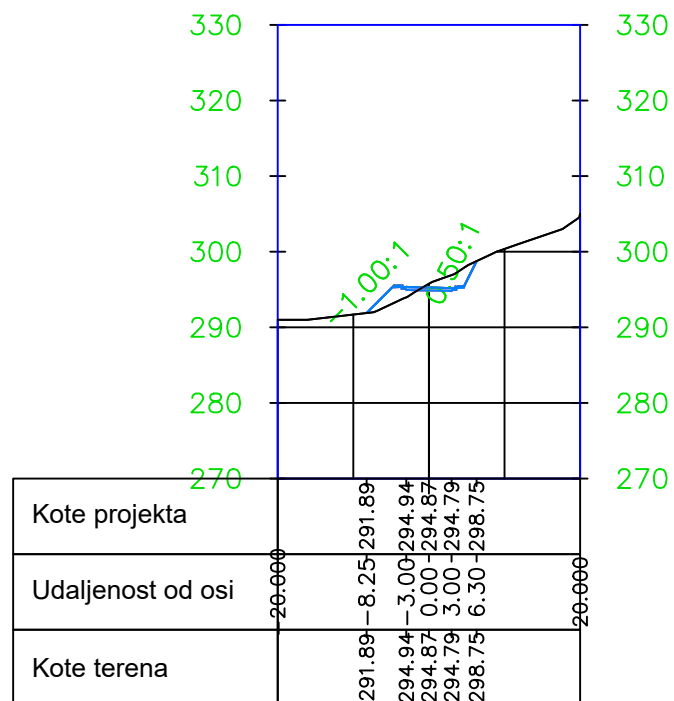
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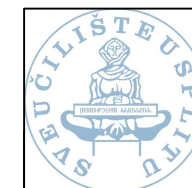
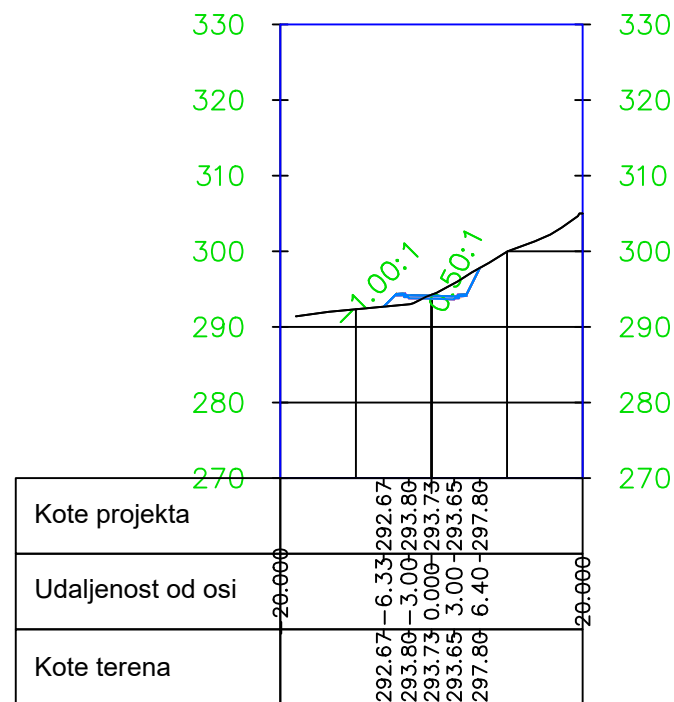
0+300.00



0+320.00



0+340.00

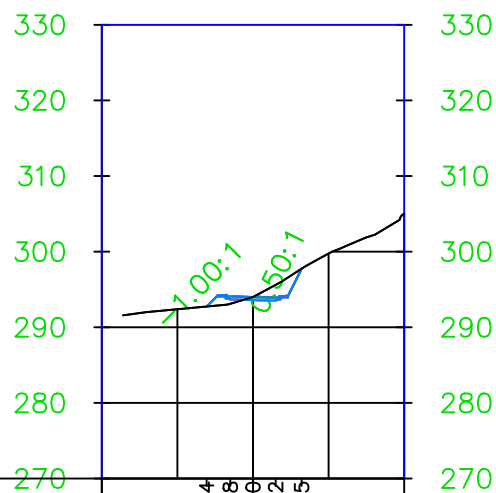


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PREDMET	CESTE-ZAVRŠNI RAD	M 1:200
ZADATAK	IDEJNI PROJEKT	
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI	
STUDENT	LEO RADOVIĆ	

0+342.21



Kote projekta		292.74	293.68	293.68	293.52	297.75	
Udaljenost od osi	20.000	-6.14	-3.00	0.00	3.00	6.44	20.000
Kote terena		292.74	293.68	293.68	293.52	297.75	



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ZADATAK	IDEJNI PROJEKT
SADRŽAJ	KARAKTERISTIČNI POPREČNI PRESJECI
STUDENT	LEO RADOVIĆ

M 1:200

4. TABLICA UKUPNOG VOLUMENA ZEMLJANIH RADOVA

Station	Cut Area (Sq.m.)	Cut Volume (Cu.m.)	Reusable Volume (Cu.m.)	Fill Area (Sq.m.)	Fill Volume (Cu.m.)	Cum. Cut Vol. (Cu.m.)	Cum. Reusable Vol. (Cu.m.)	Cum. Fill Vol. (Cu.m.)	Cum. Net Vol. (Cu.m.)
0+000.000	6.33	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00
0+000.946	7.43	6.51	6.51	3.19	3.21	6.51	6.51	3.21	3.30
0+001.985	8.50	8.27	8.27	3.65	3.55	14.78	14.78	6.76	8.02
0+003.012	9.05	9.00	9.00	4.52	4.20	23.79	23.79	10.96	12.83
0+020.000	12.76	191.73	191.73	19.87	185.17	215.52	215.52	196.13	19.39
0+024.405	10.04	53.52	53.52	20.41	69.53	269.04	269.04	265.65	3.38
0+025.172	9.28	7.96	7.96	20.43	12.16	277.00	277.00	277.81	-0.81
0+025.946	8.31	7.36	7.36	20.60	12.30	284.36	284.36	290.11	-5.75
0+038.389	1.86	68.59	68.59	6.84	132.83	352.95	352.95	422.94	-69.99
0+040.000	3.57	4.71	4.71	4.33	7.07	357.66	357.66	430.01	-72.35
0+040.000	3.57	0.00	0.00	4.33	0.00	357.66	357.66	430.01	-72.35
0+050.832	21.56	136.64	136.64	0.00	18.25	494.30	494.30	448.25	46.05
0+051.606	22.41	16.90	16.90	0.00	0.00	511.20	511.20	448.25	62.94
0+052.373	23.29	17.40	17.40	0.00	0.00	528.60	528.60	448.25	80.35
0+060.000	33.46	215.18	215.18	0.00	0.00	743.78	743.78	448.25	295.53
0+073.767	32.68	455.76	455.76	0.00	0.00	1199.54	1199.54	448.25	751.29
0+074.793	32.69	33.55	33.55	0.00	0.00	1233.09	1233.09	448.25	784.84
0+075.832	32.99	34.12	34.12	0.00	0.00	1267.21	1267.21	448.25	818.96
0+080.000	34.45	140.56	140.56	0.00	0.00	1407.76	1407.76	448.25	959.51
0+080.636	34.57	21.95	21.95	0.00	0.00	1429.72	1429.72	448.25	981.47
0+080.640	34.57	0.14	0.14	0.00	0.00	1429.85	1429.85	448.25	981.60
0+082.803	35.24	75.49	75.49	0.00	0.00	1505.35	1505.35	448.25	1057.09
0+084.970	36.53	77.79	77.79	0.00	0.00	1583.14	1583.14	448.25	1134.88
0+100.000	34.72	529.34	529.34	0.00	0.00	2112.48	2112.48	448.25	1664.23
0+108.990	22.72	248.57	248.57	0.00	0.00	2361.05	2361.05	448.26	1912.79
0+109.810	22.66	17.73	17.73	0.00	0.00	2378.78	2378.78	448.26	1930.52
0+110.636	22.80	17.88	17.88	0.00	0.00	2396.66	2396.66	448.26	1948.40
0+110.640	22.80	0.09	0.09	0.00	0.00	2396.75	2396.75	448.26	1948.49
0+120.000	20.15	191.26	191.26	0.02	0.09	2588.02	2588.02	448.35	2139.66
0+136.705	10.17	238.20	238.20	4.14	38.27	2826.22	2826.22	486.62	2339.60
0+140.000	8.83	28.83	28.83	5.27	17.06	2855.05	2855.05	503.68	2351.37
0+160.000	3.38	111.80	111.80	20.47	285.04	2966.84	2966.84	788.71	2178.13
0+160.000	3.38	0.00	0.00	20.47	0.00	2966.84	2966.84	788.71	2178.13
0+162.773	2.62	7.49	7.49	24.95	69.81	2974.33	2974.33	858.52	2115.81

0+163.504	2.51	1.88	1.88	26.00	18.63	2976.21	2976.21	877.15	2099.06
0+164.231	2.51	1.82	1.82	26.99	19.25	2978.03	2978.03	896.40	2081.63
0+180.000	0.00	18.36	18.36	49.67	648.25	2996.39	2996.39	1544.66	1451.74
0+185.880	0.00	0.00	0.00	49.21	300.67	2996.39	2996.39	1845.33	1151.06
0+186.509	0.00	0.00	0.00	49.03	30.87	2996.39	2996.39	1876.20	1120.20
0+187.140	0.00	0.00	0.00	48.79	30.87	2996.39	2996.39	1907.06	1089.33
0+187.429	0.00	0.00	0.00	48.60	14.10	2996.39	2996.39	1921.16	1075.23
0+187.773	0.00	0.00	0.00	48.31	16.68	2996.39	2996.39	1937.84	1058.55
0+192.770	0.00	0.00	0.00	46.16	236.01	2996.39	2996.39	2173.85	822.54
0+192.773	0.00	0.00	0.00	46.15	0.15	2996.39	2996.39	2174.00	822.39
0+200.000	0.00	0.00	0.00	42.04	318.67	2996.39	2996.39	2492.67	503.72
0+220.000	0.74	7.41	7.41	26.68	687.15	3003.80	3003.80	3179.82	-176.01
0+240.000	7.04	77.84	77.84	8.06	347.37	3081.64	3081.64	3527.19	-445.55
0+260.000	12.22	192.60	192.60	1.25	93.09	3274.24	3274.24	3620.28	-346.04
0+280.000	16.86	290.80	290.80	0.02	12.72	3565.04	3565.04	3632.99	-67.96
0+300.000	13.39	302.53	302.53	2.26	22.81	3867.57	3867.57	3655.80	211.77
0+320.000	11.06	244.53	244.53	8.00	102.53	4112.10	4112.10	3758.33	353.77
0+340.000	10.10	211.66	211.66	4.09	120.86	4323.76	4323.76	3879.19	444.57
0+342.210	9.83	22.03	22.03	3.17	8.02	4345.78	4345.78	3887.20	458.58

5. OBRADA NA RAČUNALU

OBRADA NA RAČUNALU

Idejni projekt lokalne ceste izrađen je pomoću računalnog programa AutoCAD Civil 3D koji uvelike olakšava izradu zadatka. Postupak na računalu je brži i jednostavniji u odnosu na ručno rješavanje istoga.

Skeniranje geodetske podloge predstavlja prvi korak u izradi idejnog projekta. Na istoj se crtaju slojnice pomoću poligonalnih linija te se postupkom triangulacije dobiva trodimenzionalni model terena. Za odabranu trasu ceste definiramo tangente na terenu. Definiranjem kružnih lukova i prijelaznica na tangentama, dobivamo horizontalni tok trase.

Nakon završetka horizontalnog toka trase, postavlja se niveleta na uzdužni profil terena. Dobivamo uzdužni presjek ceste. Princip postavljanja nivelete je taj da se zadovolje geometrijski, sigurnosni elementi i odvodnja. Kružni luk određenog radijusa se ubacuje između tangenti.

Poprečnim presjekom prometnice definira se : poprečni nagib, širina kolnika, pokosi usjeka i nasipa. Time definiramo poprečni profil prometnice.

Slijedi izrada koridora nakon definiranja horizontalnih, vertikalnih i osi ceste. Time nam je omogućen uvid u poprečne presjeke u svim karakterističnim ali i zadanim točkama osi ceste.

Posljednje što radimo jest ispis koordinata točaka osi, točaka svakog poprečnog presjeka kao i količina zemljanih radova po presjeku.

6. IZLAZNI PODACI IZ RAČUNALA

6.1. Koordinatni račun glavnih točaka

Your Company Name

123 Main Street

Suite #321

City, State 01234

Alignment Station and Curve Report

Client: Client Company

Project Name: C:\Users\Leo\Desktop\Zavrzni\zadnje\Zavrsono.dwg

Project Description:

Report Date: 26/04/2023 21:58:47

Prepared by: Preparer

Alignment: os_1

Description:

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+00.000	-220.193	401.951
End:	0+00.946	-220.043	402.885

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.946	Course:	N 80° 49' 38.3591" E

Spiral Point Data

Description	Station	Northing	Easting
TS:	0+00.946	-220.043	402.885
SPI:		-217.361	419.491
SC:	0+25.946	-212.740	426.594

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.821
Radius:	30.000	S Tan:	8.474
Theta:	23° 52' 23.6693"	P:	0.863
X:	24.569	K:	12.428
Y:	3.429	A:	27.386
Chord:	24.808	Course:	N 72° 52' 52.7517" E

Curve Point Data

Description	Station	Northing	Easting
SC:	0+25.946	-212.740	426.594
RP:		-187.593	410.235
CS:	0+50.832	-192.507	439.830

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	47° 31' 41.0298"	Type:	LEFT
Radius:	30.000		
Length:	24.886	Tangent:	13.209
Mid-Ord:	2.544	External:	2.779
Chord:	24.178	Course:	N 33° 11' 24.1750" E

Spiral Point Data

Description	Station	Northing	Easting
CS:	0+50.832	-192.507	439.830
SPI:		-184.147	441.217
ST:	0+75.832	-167.858	437.021

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	25.000	L Tan:	16.821
Radius:	30.000	S Tan:	8.474
Theta:	23° 52' 23.6693"	P:	0.863
X:	24.569	K:	12.428
Y:	3.429	A:	27.386
Chord:	24.808	Course:	N 06° 30' 04.4018" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+75.832	-167.858	437.021
End:	0+80.636	-163.206	435.822

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.804	Course:	N 14° 26' 50.0092" W

Spiral Point Data

Description	Station	Northing	Easting
TS:	0+80.636	-163.206	435.822
SPI:		-143.725	430.803
SC:	1+10.636	-133.651	431.623

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
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Length:	30.000	L Tan:	20.118
Radius:	45.000	S Tan:	10.107
Theta:	19° 05' 54.9354"	P:	0.830
X:	29.668	K:	14.945
Y:	3.307	A:	36.742
Chord:	29.852	Course:	N 08° 05' 13.3131" W

Curve Point Data

Description	Station	Northing	Easting
SC:	1+10.636	-133.651	431.623
RP:		-137.300	476.474
CS:	1+62.773	-94.743	461.850

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 22' 59.2434"	Type:	RIGHT
Radius:	45.000		
Length:	52.137	Tangent:	29.438
Mid-Ord:	7.342	External:	8.773
Chord:	49.270	Course:	N 37° 50' 34.5479" E

Spiral Point Data

Description	Station	Northing	Easting
CS:	1+62.773	-94.743	461.850
SPI:		-91.458	471.408
ST:	1+92.773	-91.505	491.526

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	30.000	L Tan:	20.118
Radius:	45.000	S Tan:	10.107
Theta:	19° 05' 54.9354"	P:	0.830
X:	29.668	K:	14.945
Y:	3.307	A:	36.742
Chord:	29.852	Course:	N 83° 46' 22.4090" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1+92.773	-91.505	491.526
End:	3+42.210	-91.852	640.962

Tangent Data

Parameter	Value	Parameter	Value
Length:	149.437	Course:	S 89° 52' 00.8949" E

Alignment: os 1-Left-3.000

Description:

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+00.000	-217.232	401.473
End:	0+00.946	-217.081	402.407

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	0.946	Course:	N 80° 49' 38.3591" E

<u>Curve Point Data</u>			
Description	Station	Northing	Easting
PC:	0+00.946	-217.081	402.407
RP:		-209.183	401.132
PT:	0+03.026	-216.488	404.394

<u>Circular Curve Data</u>			
Parameter	Value	Parameter	Value
Delta:	14° 53' 33.2208"	Type:	LEFT
Radius:	8.000		
Length:	2.079	Tangent:	1.046
Mid-Ord:	0.067	External:	0.068
Chord:	2.074	Course:	N 73° 22' 51.7487" E

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	0+03.026	-216.488	404.394
End:	0+22.670	-208.477	422.331

<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	19.644	Course:	N 65° 56' 05.1383" E

<u>Curve Point Data</u>			
Description	Station	Northing	Easting
PC:	0+22.670	-208.477	422.331
RP:		-201.173	419.069
PCC:	0+23.924	-207.879	423.431

<u>Circular Curve Data</u>			
Parameter	Value	Parameter	Value

Delta:	08° 58' 50.4484"	Type:	LEFT
Radius:	8.000		
Length:	1.254	Tangent:	0.628
Mid-Ord:	0.025	External:	0.025
Chord:	1.253	Course:	N 61° 26' 39.9141" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	0+23.924	-207.879	423.431
RP:		-187.593	410.235
PCC:	0+43.998	-191.557	434.108

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	47° 31' 41.0298"	Type:	LEFT
Radius:	24.200		
Length:	20.074	Tangent:	10.655
Mid-Ord:	2.052	External:	2.242
Chord:	19.504	Course:	N 33° 11' 24.1750" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	0+43.998	-191.557	434.108
RP:		-190.246	426.216
PT:	0+45.252	-190.309	434.216

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 58' 50.4484"	Type:	LEFT
Radius:	8.000		
Length:	1.254	Tangent:	0.628
Mid-Ord:	0.025	External:	0.025
Chord:	1.253	Course:	N 04° 56' 08.4359" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+45.252	-190.309	434.216
End:	0+64.896	-170.665	434.368

Tangent Data

Parameter	Value	Parameter	Value
Length:	19.644	Course:	N 00° 26' 43.2117" E

Curve Point Data

Description	Station	Northing	Easting
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PC:	0+64.896	-170.665	434.368
RP:		-170.603	426.369
PT:	0+66.976	-168.607	434.116

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 53' 33.2208"	Type:	LEFT
Radius:	8.000		
Length:	2.079	Tangent:	1.046
Mid-Ord:	0.067	External:	0.068
Chord:	2.074	Course:	N 07° 00' 03.3988" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+66.976	-168.607	434.116
End:	0+71.780	-163.955	432.917

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.804	Course:	N 14° 26' 50.0092" W

Spiral Point Data

Description	Station	Northing	Easting
TS:	0+71.780	-163.955	432.917
SPI:		-143.984	427.772
SC:	1+02.780	-133.408	428.633

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	31.000	L Tan:	20.781
Radius:	48.000	S Tan:	10.437
Theta:	18° 30' 06.3437"	P:	0.831
X:	30.678	K:	15.446
Y:	3.312	A:	38.575
Chord:	30.846	Course:	N 07° 59' 03.0284" W

Curve Point Data

Description	Station	Northing	Easting
SC:	1+02.780	-133.408	428.633
RP:		-137.300	476.474
CS:	1+58.393	-91.906	460.875

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 22' 59.2434"	Type:	RIGHT
Radius:	48.000		

Length:	55.613	Tangent:	31.400
Mid-Ord:	7.831	External:	9.358
Chord:	52.554	Course:	N 37° 50' 34.5479" E

Spiral Point Data

Description	Station	Northing	Easting
CS:	1+58.393	-91.906	460.875
SPI:		-88.457	470.910
ST:	1+89.393	-88.505	491.532

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	31.000	L Tan:	20.781
Radius:	48.000	S Tan:	10.437
Theta:	18° 30' 06.3437"	P:	0.831
X:	30.678	K:	15.446
Y:	3.312	A:	38.575
Chord:	30.846	Course:	N 83° 40' 12.1243" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1+89.393	-88.505	491.532
End:	3+38.830	-88.852	640.969

Tangent Data

Parameter	Value	Parameter	Value
Length:	149.437	Course:	S 89° 52' 00.8949" E

Alignment: os 1-Right-3.000

Description:

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+00.000	-223.155	402.429
End:	0+00.946	-223.004	403.364

Tangent Data

Parameter	Value	Parameter	Value
Length:	0.946	Course:	N 80° 49' 38.3591" E

Spiral Point Data

Description	Station	Northing	Easting
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TS:	0+00.946	-223.004	403.364
SPI:		-220.222	420.595
SC:	0+27.196	-215.255	428.230

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.250	L Tan:	17.647
Radius:	33.000	S Tan:	8.884
Theta:	22° 47' 17.1388"	P:	0.865
X:	25.838	K:	13.056
Y:	3.441	A:	29.432
Chord:	26.046	Course:	N 72° 41' 28.8094" E

Curve Point Data

Description	Station	Northing	Easting
SC:	0+27.196	-215.255	428.230
RP:		-187.593	410.235
CS:	0+54.570	-192.998	442.789

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	47° 31' 41.0298"	Type:	LEFT
Radius:	33.000		
Length:	27.374	Tangent:	14.530
Mid-Ord:	2.798	External:	3.057
Chord:	26.596	Course:	N 33° 11' 24.1750" E

Spiral Point Data

Description	Station	Northing	Easting
CS:	0+54.570	-192.998	442.789
SPI:		-184.013	444.281
ST:	0+80.820	-167.110	439.926

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	26.250	L Tan:	17.647
Radius:	33.000	S Tan:	8.884
Theta:	22° 47' 17.1388"	P:	0.865
X:	25.838	K:	13.056
Y:	3.441	A:	29.432
Chord:	26.046	Course:	N 06° 18' 40.4595" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+80.820	-167.110	439.926

End: 0+85.625 -162.458 438.727

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.804	Course:	N 14° 26' 50.0092" W

Curve Point Data

Description	Station	Northing	Easting
PC:	0+85.625	-162.458	438.727
RP:		-154.973	467.779
PT:	0+89.951	-158.205	437.953

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 15' 45.9864"	Type:	RIGHT
Radius:	30.000		
Length:	4.326	Tangent:	2.167
Mid-Ord:	0.078	External:	0.078
Chord:	4.323	Course:	N 10° 18' 57.0160" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	0+89.951	-158.205	437.953
End:	1+12.815	-135.475	435.490

Tangent Data

Parameter	Value	Parameter	Value
Length:	22.863	Course:	N 06° 11' 04.0227" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1+12.815	-135.475	435.490
RP:		-134.613	443.444
PCC:	1+14.327	-133.964	435.470

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 50' 08.9490"	Type:	RIGHT
Radius:	8.000		
Length:	1.513	Tangent:	0.759
Mid-Ord:	0.036	External:	0.036
Chord:	1.511	Course:	N 00° 45' 59.5483" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	1+14.327	-133.964	435.470

RP: -137.300 476.474
PCC: 1+61.992 -98.393 463.104

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 22' 59.2434"	Type:	RIGHT
Radius:	41.140		
Length:	47.665	Tangent:	26.913
Mid-Ord:	6.712	External:	8.021
Chord:	45.043	Course:	N 37° 50' 34.5479" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	1+61.992	-98.393	463.104
RP:		-105.959	465.704
PT:	1+63.331	-98.066	464.401

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 35' 21.8451"	Type:	RIGHT
Radius:	8.000		
Length:	1.339	Tangent:	0.671
Mid-Ord:	0.028	External:	0.028
Chord:	1.337	Course:	N 75° 49' 45.0922" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1+63.331	-98.066	464.401
End:	1+84.512	-94.615	485.299

Tangent Data

Parameter	Value	Parameter	Value
Length:	21.181	Course:	N 80° 37' 26.0148" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1+84.512	-94.615	485.299
RP:		-102.508	486.602
CS:	1+85.766	-94.509	486.546

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 58' 43.2893"	Type:	RIGHT
Radius:	8.000		
Length:	1.254	Tangent:	0.628
Mid-Ord:	0.025	External:	0.025

Chord: 1.252 Course: N 85° 06' 47.6594" E

Spiral Point Data

Description	Station	Northing	Easting
CS:	1+85.766	-94.509	486.546
SPI:		-94.497	488.199
ST:	1+90.738	-94.505	491.519

Spiral Curve Data: clothoid

Parameter	Value	Parameter	Value
Length:	4.972	L Tan:	3.315
Radius:	267.004	S Tan:	1.657
Theta:	00° 32' 00.5301"	P:	0.004
X:	4.972	K:	2.486
Y:	0.015	A:	36.436
Chord:	4.972	Course:	N 89° 57' 24.2834" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1+90.738	-94.505	491.519
End:	3+40.175	-94.852	640.955

Tangent Data

Parameter	Value	Parameter	Value
Length:	149.437	Course:	S 89° 52' 00.8949" E

6.2. KOORDINATNI RAČUN GLAVNIH TOČKA

Alignment Incremental Station Report

Client:

Client
Client Company
Address 1

Date: 26/04/2023 21:59:27

Prepared by:

Preparer
Your Company Name
123 Main Street

Alignment Name: os 1

Description:

Station Range: Start: 0+000.00, End: 0+342.21

Station Increment: 20.00

Station	Northing	Easting	Tangential Direction
0+000.00	-220.1934m	401.9513m	N80° 49' 38"E
0+020.00	-215.5117m	421.3416m	N66° 57' 36"E
0+040.00	-202.6448m	436.1857m	N30° 06' 48"E
0+060.00	-183.3665m	440.1074m	N4° 52' 23"W
0+080.00	-163.8222m	435.9809m	N14° 26' 50"W
0+100.00	-144.2674m	431.8673m	N6° 29' 25"W
0+120.00	-124.4638m	433.3441m	N16° 34' 26"E
0+140.00	-107.1667m	443.0533m	N42° 02' 19"E
0+160.00	-95.7245m	459.2562m	N67° 30' 12"E
0+180.00	-91.7325m	478.7563m	N86° 40' 15"E
0+200.00	-91.5217m	498.7522m	S89° 52' 01"E
0+220.00	-91.5682m	518.7522m	S89° 52' 01"E
0+240.00	-91.6146m	538.7521m	S89° 52' 01"E
0+260.00	-91.6611m	558.7521m	S89° 52' 01"E
0+280.00	-91.7075m	578.7520m	S89° 52' 01"E
0+300.00	-91.7540m	598.7520m	S89° 52' 01"E
0+320.00	-91.8004m	618.7519m	S89° 52' 01"E

0+340.00	-91.8469m	638.7518m	S89° 52' 01"E
0+342.21	-91.8520m	640.9617m	S89° 52' 01"E

Alignment Name: os 1-Left-3.000

Description:

Station Range: Start: 0+000.00, End: 0+338.83

Station Increment: 20.00

Station	Northing	Easting	Tangential Direction
0+000.00	-217.2317m	401.4730m	N80° 49' 38"E
0+020.00	-209.5661m	419.8931m	N65° 56' 05"E
0+040.00	-195.4291m	433.1310m	N18° 53' 32"E
0+060.00	-175.5613m	434.3303m	N0° 26' 43"E
0+080.00	-156.1680m	430.9760m	N13° 06' 16"W
0+100.00	-136.2650m	428.4833m	N1° 22' 46"E
0+120.00	-116.8580m	433.0450m	N25° 12' 22"E
0+140.00	-101.0304m	445.0339m	N49° 04' 46"E
0+160.00	-91.3943m	462.4496m	N72° 57' 48"E
0+180.00	-88.5777m	482.3513m	N88° 22' 47"E
0+200.00	-88.5296m	502.1394m	S89° 52' 01"E
0+220.00	-88.5760m	522.1394m	S89° 52' 01"E
0+240.00	-88.6225m	542.1393m	S89° 52' 01"E
0+260.00	-88.6689m	562.1393m	S89° 52' 01"E
0+280.00	-88.7154m	582.1392m	S89° 52' 01"E
0+300.00	-88.7618m	602.1392m	S89° 52' 01"E
0+320.00	-88.8083m	622.1391m	S89° 52' 01"E
0+338.83	-88.8520m	640.9687m	S89° 52' 01"E

Alignment Name: os 1-Right-3.000

Description:

Station Range: Start: 0+000.00, End: 0+340.17

Station Increment: 20.00

Station	Northing	Easting	Tangential Direction
0+000.00	-223.1550m	402.4295m	N80° 49' 38"E
0+020.00	-218.6437m	421.6144m	N68° 14' 57"E
0+040.00	-206.3908m	437.3576m	N34° 43' 26"E
0+060.00	-187.3890m	443.2643m	N0° 34' 17"E
0+080.00	-167.8679m	440.1211m	N14° 25' 26"W
0+100.00	-148.2145m	436.8707m	N6° 11' 04"W
0+120.00	-128.3597m	436.3177m	N12° 33' 05"E
0+140.00	-110.6334m	445.1474m	N40° 24' 20"E
0+160.00	-99.0863m	461.2362m	N68° 15' 35"E
0+180.00	-95.3505m	480.8466m	N80° 37' 26"E
0+200.00	-94.5264m	500.7805m	S89° 52' 01"E
0+220.00	-94.5729m	520.7804m	S89° 52' 01"E
0+240.00	-94.6193m	540.7804m	S89° 52' 01"E
0+260.00	-94.6658m	560.7803m	S89° 52' 01"E
0+280.00	-94.7123m	580.7802m	S89° 52' 01"E
0+300.00	-94.7587m	600.7802m	S89° 52' 01"E
0+320.00	-94.8052m	620.7801m	S89° 52' 01"E
0+340.00	-94.8516m	640.7801m	S89° 52' 01"E
0+340.17	-94.8520m	640.9501m	S89° 52' 01"E

6.3. RAČUN KOTA KOLNIKA

Corridor Section Points Report

Client:
 Client
 Client Company
 Address 1
 Date: 27/04/2023 14:15:39

Prepared by:
 Preparer
 Your Company Name
 123 Main Street

Corridor Name: koridor
 Description:
 Base Alignment Name: os 1
 Station Range: Start: 0+000.00, End: 0+342.21

CHAINAGE 0+000.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	400.6265	-211.9895	310.6527	-8.310m	Daylight
2	401.2113	-215.6110	314.3212	-4.642m	Hinge
3	401.2115	-215.6120	314.1212	-4.641m	EPS_Sub
4	401.3707	-216.5983	314.3612	-3.642m	Back_Curb
5	401.3946	-216.7463	314.3612	-3.492m	Top_Curb
6	401.4013	-216.7875	314.1362	-3.450m	Flowline_Gutter
7	401.4730	-217.2317	314.1632	-3.000m	ETW
8	401.4730	-217.2317	313.7632	-3.000m	ETW_SubBase
9	402.4295	-223.1550	314.0132	3.000m	Flange
10	402.4295	-223.1550	313.6132	3.000m	ETW_SubBase
11	402.5012	-223.5993	313.9862	3.450m	Flowline_Gutter
12	402.5079	-223.6404	314.2112	3.492m	Top_Curb
13	402.5318	-223.7885	314.2112	3.642m	Back_Curb
14	402.6910	-224.7747	314.0512	4.641m	EPS_Sub
15	402.6912	-224.7757	314.2512	4.642m	Hinge_Cut
16	402.8306	-225.6389	316.0000	5.516m	Daylight

CHAINAGE 0+020.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	416.1378	-203.2760	307.5602	-13.296m	Daylight
2	418.3428	-208.4608	313.1944	-7.662m	Hinge
3	418.3432	-208.4617	312.9944	-7.661m	EPS_Sub
4	418.7342	-209.3810	313.2344	-6.662m	Back_Curb
5	418.7929	-209.5190	313.2344	-6.512m	Top_Curb
6	418.8092	-209.5574	313.0094	-6.470m	Flowline_Gutter
7	418.9854	-209.9715	313.0364	-6.020m	ETW
8	418.9854	-209.9715	312.6364	-6.020m	ETW_SubBase
9	422.5158	-218.2727	312.8109	3.000m	Flange
10	422.5158	-218.2727	312.4109	3.000m	ETW_SubBase
11	422.6919	-218.6868	312.7839	3.450m	Flowline_Gutter
12	422.7083	-218.7251	313.0089	3.492m	Top_Curb
13	422.7670	-218.8632	313.0089	3.642m	Back_Curb
14	423.1579	-219.7825	312.8489	4.641m	EPS_Sub
15	423.1583	-219.7834	313.0489	4.642m	Hinge_Cut
16	423.7002	-221.0575	315.8179	6.026m	Daylight

CHAINAGE 0+040.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	428.0967	-197.9532	310.0772	-9.351m	Daylight
2	429.7484	-198.9112	311.9866	-7.442m	Hinge
3	429.7492	-198.9117	311.7866	-7.441m	EPS_Sub
4	430.6134	-199.4129	312.0266	-6.442m	Back_Curb
5	430.7432	-199.4881	312.0266	-6.292m	Top_Curb
6	430.7792	-199.5090	311.8016	-6.250m	Flowline_Gutter
7	431.1685	-199.7348	311.8286	-5.800m	ETW
8	431.1685	-199.7348	311.4286	-5.800m	ETW_SubBase
9	438.7808	-204.1499	311.6086	3.000m	Flange
10	438.7808	-204.1499	311.2086	3.000m	ETW_SubBase
11	439.1701	-204.3757	311.5816	3.450m	Flowline_Gutter
12	439.2061	-204.3966	311.8066	3.492m	Top_Curb

13	439.3359	-204.4718	311.8066	3.642m	Back_Curb
14	440.2001	-204.9731	311.6466	4.641m	EPS_Sub
15	440.2009	-204.9736	311.8466	4.642m	Hinge_Cut
16	440.4531	-205.1198	312.4295	4.933m	Daylight

CHAINAGE 0+060.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	432.2211	-184.0389	311.6866	-7.915m	Daylight
2	432.6300	-184.0041	310.8658	-7.504m	EPS
3	432.6310	-184.0040	310.6658	-7.503m	EPS_Sub
4	433.6264	-183.9191	310.8258	-6.504m	Back_Curb
5	433.7759	-183.9064	310.8258	-6.354m	Top_Curb
6	433.8174	-183.9028	310.6008	-6.313m	Flowline_Gutter
7	434.2658	-183.8646	310.6278	-5.863m	ETW
8	434.2658	-183.8646	310.2278	-5.863m	ETW_SubBase
9	443.0963	-183.1117	310.0062	3.000m	ETW_SubBase
10	443.0963	-183.1117	310.4062	3.000m	ETW
11	443.5446	-183.0735	310.3792	3.450m	Flowline_Gutter
12	443.5862	-183.0700	310.6042	3.491m	Top_Curb
13	443.7356	-183.0572	310.6042	3.641m	Back_Curb
14	444.7310	-182.9723	310.4442	4.640m	EPS_Sub
15	444.7320	-182.9723	310.6442	4.641m	Hinge_Cut
16	446.3969	-182.8303	313.9861	6.312m	Daylight

CHAINAGE 0+080.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	430.4424	-165.2491	311.7472	-5.719m	Daylight
2	431.4860	-164.9802	309.5919	-4.642m	EPS
3	431.4869	-164.9800	309.3919	-4.641m	EPS_Sub
4	432.4544	-164.7307	309.5519	-3.642m	Back_Curb
5	432.5996	-164.6933	309.5519	-3.492m	Top_Curb
6	432.6400	-164.6829	309.3269	-3.450m	Flowline_Gutter
7	433.0758	-164.5706	309.3539	-3.000m	ETW

8	433.0758	-164.5706	308.9539	-3.000m	ETW_SubBase
9	438.8860	-163.0737	308.8039	3.000m	ETW_SubBase
10	438.8860	-163.0737	309.2039	3.000m	ETW
11	439.3218	-162.9614	309.1769	3.450m	Flowline_Gutter
12	439.3622	-162.9510	309.4019	3.492m	Top_Curb
13	439.5074	-162.9136	309.4019	3.642m	Back_Curb
14	440.4748	-162.6644	309.2419	4.641m	EPS_Sub
15	440.4758	-162.6641	309.4419	4.642m	Hinge_Cut
16	442.0931	-162.2475	312.7820	6.312m	Daylight

CHAINAGE 0+100.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	426.7828	-144.8459	309.3415	-5.117m	Daylight
2	427.2558	-144.7920	308.3895	-4.641m	EPS
3	427.2568	-144.7919	308.1895	-4.640m	EPS_Sub
4	428.2494	-144.6790	308.3495	-3.641m	Back_Curb
5	428.3984	-144.6621	308.3495	-3.491m	Top_Curb
6	428.4398	-144.6573	308.1245	-3.450m	Flowline_Gutter
7	428.8870	-144.6065	308.1515	-3.000m	ETW
8	428.8870	-144.6065	307.7515	-3.000m	ETW_SubBase
9	436.3873	-143.7532	307.5628	4.549m	ETW_SubBase
10	436.3873	-143.7532	307.9628	4.549m	ETW
11	436.8344	-143.7023	307.9358	4.999m	Flowline_Gutter
12	436.8758	-143.6976	308.1608	5.041m	Top_Curb
13	437.0249	-143.6807	308.1608	5.191m	Back_Curb
14	438.0174	-143.5678	308.0008	6.190m	EPS_Sub
15	438.0184	-143.5676	308.2008	6.191m	Hinge_Cut
16	439.9089	-143.3526	312.0061	8.093m	Daylight

CHAINAGE 0+120.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	428.6451	-123.0653	306.9262	-4.903m	Daylight
2	428.8953	-123.1398	307.1872	-4.642m	Hinge

3	428.8962	-123.1400	306.9872	-4.641m	EPS_Sub
4	429.8537	-123.4250	307.1472	-3.642m	Back_Curb
5	429.9975	-123.4678	307.1472	-3.492m	Top_Curb
6	430.0375	-123.4797	306.9222	-3.450m	Flowline_Gutter
7	430.4688	-123.6081	306.9492	-3.000m	ETW
8	430.4688	-123.6081	306.5492	-3.000m	ETW_SubBase
9	437.0437	-125.5649	306.7777	3.860m	Flange
10	437.0437	-125.5649	306.3777	3.860m	ETW_SubBase
11	437.4750	-125.6932	306.7507	4.310m	Flowline_Gutter
12	437.5150	-125.7051	306.9757	4.352m	Top_Curb
13	437.6588	-125.7479	306.9757	4.502m	Back_Curb
14	438.6163	-126.0329	306.8157	5.501m	EPS_Sub
15	438.6172	-126.0332	307.0157	5.502m	Hinge_Cut
16	440.1253	-126.4820	310.1626	7.075m	Daylight

CHAINAGE 0+140.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	437.7213	-102.3592	303.3673	-7.179m	Daylight
2	439.6059	-104.0585	305.9049	-4.642m	Hinge
3	439.6067	-104.0591	305.7049	-4.641m	EPS_Sub
4	440.3486	-104.7281	305.9449	-3.642m	Back_Curb
5	440.4600	-104.8285	305.9449	-3.492m	Top_Curb
6	440.4910	-104.8565	305.7199	-3.450m	Flowline_Gutter
7	440.8252	-105.1578	305.7469	-3.000m	ETW
8	440.8252	-105.1578	305.3469	-3.000m	ETW_SubBase
9	445.9201	-109.7515	305.5754	3.860m	Flange
10	445.9201	-109.7515	305.1754	3.860m	ETW_SubBase
11	446.2543	-110.0528	305.5484	4.310m	Flowline_Gutter
12	446.2853	-110.0807	305.7734	4.352m	Top_Curb
13	446.3967	-110.1812	305.7734	4.502m	Back_Curb
14	447.1386	-110.8501	305.6134	5.501m	EPS_Sub
15	447.1394	-110.8508	305.8134	5.502m	Hinge_Cut

16	447.9922	-111.6198	308.1100	6.650m	Daylight
CHAINAGE 0+160.00					
POINT	X	Y	Z	OFFSET	STRING CUT
1	454.9950	-85.4353	298.2076	-11.137m	Daylight
2	457.4802	-91.4360	304.7025	-4.642m	Hinge
3	457.4806	-91.4369	304.5025	-4.641m	EPS_Sub
4	457.8628	-92.3599	304.7425	-3.642m	Back_Curb
5	457.9202	-92.4985	304.7425	-3.492m	Top_Curb
6	457.9362	-92.5370	304.5175	-3.450m	Flowline_Gutter
7	458.1084	-92.9528	304.5445	-3.000m	ETW
8	458.1084	-92.9528	304.1445	-3.000m	ETW_SubBase
9	460.7332	-99.2908	304.3730	3.860m	Flange
10	460.7332	-99.2908	303.9730	3.860m	ETW_SubBase
11	460.9054	-99.7065	304.3460	4.310m	Flowline_Gutter
12	460.9213	-99.7451	304.5710	4.352m	Top_Curb
13	460.9787	-99.8836	304.5710	4.502m	Back_Curb
14	461.3610	-100.8066	304.4110	5.501m	EPS_Sub
15	461.3613	-100.8075	304.6110	5.502m	Hinge_Cut
16	461.6633	-101.5367	306.1895	6.291m	Daylight
CHAINAGE 0+180.00					
POINT	X	Y	Z	OFFSET	STRING CUT
1	477.9207	-77.3678	293.7527	-14.389m	Daylight
2	478.4868	-87.0988	303.5002	-4.642m	Hinge
3	478.4869	-87.0998	303.3002	-4.641m	EPS_Sub
4	478.5449	-88.0971	303.5402	-3.642m	Back_Curb
5	478.5536	-88.2469	303.5402	-3.492m	Top_Curb
6	478.5560	-88.2885	303.3152	-3.450m	Flowline_Gutter
7	478.5821	-88.7377	302.9422	-3.000m	ETW_SubBase
8	478.5821	-88.7377	303.3422	-3.000m	Flange
9	478.9847	-95.6579	303.1689	3.932m	Flange
10	478.9847	-95.6579	302.7689	3.932m	ETW_SubBase

11	479.0108	-96.1072	303.1419	4.382m	Flowline_Gutter
12	479.0132	-96.1488	303.3669	4.424m	Top_Curb
13	479.0220	-96.2985	303.3669	4.574m	Back_Curb
14	479.0800	-97.2958	303.2069	5.573m	EPS_Sub
15	479.0800	-97.2968	303.4069	5.574m	EPS
16	479.1079	-97.7761	302.9268	6.054m	Daylight

CHAINAGE 0+200.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	498.7832	-78.1949	293.6542	-13.327m	Daylight
2	498.7630	-86.8800	302.3394	-4.642m	Hinge
3	498.7630	-86.8810	302.1394	-4.641m	EPS_Sub
4	498.7607	-87.8800	302.3794	-3.642m	Back_Curb
5	498.7603	-88.0300	302.3794	-3.492m	Top_Curb
6	498.7602	-88.0717	302.1544	-3.450m	Flowline_Gutter
7	498.7592	-88.5217	301.7814	-3.000m	ETW_SubBase
8	498.7592	-88.5217	302.1814	-3.000m	Flange
9	498.7453	-94.5217	302.0314	3.000m	Flange
10	498.7453	-94.5217	301.6314	3.000m	ETW_SubBase
11	498.7442	-94.9717	302.0044	3.450m	Flowline_Gutter
12	498.7441	-95.0134	302.2294	3.492m	Top_Curb
13	498.7438	-95.1634	302.2294	3.642m	Back_Curb
14	498.7414	-96.1624	301.9894	4.641m	EPS_Sub
15	498.7414	-96.1634	302.1894	4.642m	EPS
16	498.7407	-96.5025	301.8503	4.981m	Daylight

CHAINAGE 0+220.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	518.7790	-80.0298	294.3026	-11.538m	Daylight
2	518.7630	-86.9265	301.1993	-4.642m	Hinge
3	518.7630	-86.9275	300.9993	-4.641m	EPS_Sub
4	518.7606	-87.9265	301.2393	-3.642m	Back_Curb
5	518.7603	-88.0765	301.2393	-3.492m	Top_Curb

6	518.7602	-88.1182	301.0143	-3.450m	Flowline_Gutter
7	518.7591	-88.5682	301.0413	-3.000m	ETW
8	518.7591	-88.5682	300.6413	-3.000m	ETW_SubBase
9	518.7452	-94.5682	300.8913	3.000m	Flange
10	518.7452	-94.5682	300.4913	3.000m	ETW_SubBase
11	518.7442	-95.0182	300.8643	3.450m	Flowline_Gutter
12	518.7441	-95.0599	301.0893	3.492m	Top_Curb
13	518.7437	-95.2099	301.0893	3.642m	Back_Curb
14	518.7414	-96.2089	300.9293	4.641m	EPS_Sub
15	518.7414	-96.2099	301.1293	4.642m	Hinge_Cut
16	518.7409	-96.4080	301.5256	4.840m	Daylight

CHAINAGE 0+240.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	538.7721	-82.9933	296.0796	-8.621m	Daylight
2	538.7629	-86.9729	300.0593	-4.642m	Hinge
3	538.7629	-86.9739	299.8593	-4.641m	EPS_Sub
4	538.7606	-87.9729	300.0993	-3.642m	Back_Curb
5	538.7602	-88.1229	300.0993	-3.492m	Top_Curb
6	538.7601	-88.1646	299.8743	-3.450m	Flowline_Gutter
7	538.7591	-88.6146	299.9013	-3.000m	ETW
8	538.7591	-88.6146	299.5013	-3.000m	ETW_SubBase
9	538.7452	-94.6146	299.7513	3.000m	Flange
10	538.7452	-94.6146	299.3513	3.000m	ETW_SubBase
11	538.7441	-95.0646	299.7243	3.450m	Flowline_Gutter
12	538.7440	-95.1063	299.9493	3.492m	Top_Curb
13	538.7437	-95.2563	299.9493	3.642m	Back_Curb
14	538.7413	-96.2553	299.7893	4.641m	EPS_Sub
15	538.7413	-96.2563	299.9893	4.642m	Hinge_Cut
16	538.7387	-97.3951	302.2669	5.781m	Daylight

CHAINAGE 0+260.00

POINT	X	Y	Z	OFFSET	STRING CUT
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1	558.7659	-85.6976	297.5975	-5.963m	Daylight
2	558.7628	-87.0194	298.9192	-4.642m	Hinge
3	558.7628	-87.0204	298.7192	-4.641m	EPS_Sub
4	558.7605	-88.0194	298.9592	-3.642m	Back_Curb
5	558.7602	-88.1694	298.9592	-3.492m	Top_Curb
6	558.7601	-88.2111	298.7342	-3.450m	Flowline_Gutter
7	558.7590	-88.6611	298.7612	-3.000m	ETW
8	558.7590	-88.6611	298.3612	-3.000m	ETW_SubBase
9	558.7451	-94.6611	298.6112	3.000m	Flange
10	558.7451	-94.6611	298.2112	3.000m	ETW_SubBase
11	558.7441	-95.1111	298.5842	3.450m	Flowline_Gutter
12	558.7440	-95.1528	298.8092	3.492m	Top_Curb
13	558.7436	-95.3028	298.8092	3.642m	Back_Curb
14	558.7413	-96.3018	298.6492	4.641m	EPS_Sub
15	558.7413	-96.3028	298.8492	4.642m	Hinge_Cut
16	558.7384	-97.5291	301.3019	5.868m	Daylight

CHAINAGE 0+280.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	578.7634	-86.8071	297.6004	-4.900m	Daylight
2	578.7628	-87.0658	297.8592	-4.642m	Hinge
3	578.7628	-87.0668	297.6592	-4.641m	EPS_Sub
4	578.7605	-88.0658	297.8192	-3.642m	Back_Curb
5	578.7601	-88.2158	297.8192	-3.492m	Top_Curb
6	578.7600	-88.2575	297.5942	-3.450m	Flowline_Gutter
7	578.7590	-88.7075	297.6212	-3.000m	ETW
8	578.7590	-88.7075	297.2212	-3.000m	ETW_SubBase
9	578.7450	-94.7075	297.4712	3.000m	Flange
10	578.7450	-94.7075	297.0712	3.000m	ETW_SubBase
11	578.7440	-95.1575	297.4442	3.450m	Flowline_Gutter
12	578.7439	-95.1992	297.6692	3.492m	Top_Curb
13	578.7436	-95.3492	297.6692	3.642m	Back_Curb

14	578.7412	-96.3482	297.5092	4.641m	EPS_Sub
15	578.7412	-96.3492	297.7092	4.642m	Hinge_Cut
16	578.7380	-97.7377	300.4861	6.030m	Daylight

CHAINAGE 0+300.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	598.7682	-84.7716	294.3784	-6.982m	Daylight
2	598.7627	-87.1123	296.7191	-4.642m	Hinge
3	598.7627	-87.1133	296.5191	-4.641m	EPS_Sub
4	598.7604	-88.1123	296.6791	-3.642m	Back_Curb
5	598.7601	-88.2623	296.6791	-3.492m	Top_Curb
6	598.7600	-88.3040	296.4541	-3.450m	Flowline_Gutter
7	598.7589	-88.7540	296.4811	-3.000m	ETW
8	598.7589	-88.7540	296.0811	-3.000m	ETW_SubBase
9	598.7450	-94.7540	296.3311	3.000m	Flange
10	598.7450	-94.7540	295.9311	3.000m	ETW_SubBase
11	598.7439	-95.2040	296.3041	3.450m	Flowline_Gutter
12	598.7438	-95.2457	296.5291	3.492m	Top_Curb
13	598.7435	-95.3957	296.5291	3.642m	Back_Curb
14	598.7412	-96.3947	296.3691	4.641m	EPS_Sub
15	598.7412	-96.3957	296.5691	4.642m	Hinge_Cut
16	598.7377	-97.8772	299.5322	6.123m	Daylight

CHAINAGE 0+320.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	618.7711	-83.5511	291.8914	-8.249m	Daylight
2	618.7627	-87.1588	295.4990	-4.642m	Hinge
3	618.7627	-87.1598	295.2990	-4.641m	EPS_Sub
4	618.7604	-88.1588	295.5390	-3.642m	Back_Curb
5	618.7600	-88.3088	295.5390	-3.492m	Top_Curb
6	618.7599	-88.3505	295.3140	-3.450m	Flowline_Gutter
7	618.7589	-88.8005	295.3410	-3.000m	ETW
8	618.7589	-88.8005	294.9410	-3.000m	ETW_SubBase

9	618.7449	-94.8004	295.1910	3.000m	Flange
10	618.7449	-94.8004	294.7910	3.000m	ETW_SubBase
11	618.7439	-95.2504	295.1640	3.450m	Flowline_Gutter
12	618.7438	-95.2921	295.3890	3.492m	Top_Curb
13	618.7434	-95.4421	295.3890	3.642m	Back_Curb
14	618.7411	-96.4411	295.2290	4.641m	EPS_Sub
15	618.7411	-96.4421	295.4290	4.642m	Hinge_Cut
16	618.7373	-98.1029	298.7507	6.303m	Daylight

CHAINAGE 0+340.00

POINT	X	Y	Z	OFFSET	STRING CUT
1	638.7665	-85.5181	292.6719	-6.329m	Daylight
2	638.7626	-87.2052	294.3590	-4.642m	Hinge
3	638.7626	-87.2062	294.1590	-4.641m	EPS_Sub
4	638.7603	-88.2052	294.3990	-3.642m	Back_Curb
5	638.7600	-88.3552	294.3990	-3.492m	Top_Curb
6	638.7599	-88.3969	294.1740	-3.450m	Flowline_Gutter
7	638.7588	-88.8469	294.2010	-3.000m	ETW
8	638.7588	-88.8469	293.8010	-3.000m	ETW_SubBase
9	638.7449	-94.8469	294.0510	3.000m	Flange
10	638.7449	-94.8469	293.6510	3.000m	ETW_SubBase
11	638.7438	-95.2969	294.0240	3.450m	Flowline_Gutter
12	638.7437	-95.3386	294.2490	3.492m	Top_Curb
13	638.7434	-95.4886	294.2490	3.642m	Back_Curb
14	638.7411	-96.4876	294.0890	4.641m	EPS_Sub
15	638.7411	-96.4886	294.2890	4.642m	Hinge_Cut
16	638.7370	-98.2433	297.7985	6.396m	Daylight

6.4. VERTIKALNI TOK TRASE

Profile PVI Station & Curve Report

Client:
 Client
 Client Company
 Address 1

Prepared by:
 Preparer
 Your Company Name
 123 Main Street

Date: 26/04/2023 22:23:16

Vertical Alignment: niveleta
 Description:
 Station Range: Start: 0+000.00, End: 0+342.21

PVI	Station	Grade Out	Curve Length
0.00	0+000.00	-6.01%	
1.00	0+186.65	-5.70%	1.549m
Vertical Curve Information:(sag curve) ----- PVC Station: 0+185.88 Elevation: 302.914m PVI Station: 0+186.65 Elevation: 302.867m PVT Station: 0+187.43 Elevation: 302.823m Low Point: 0+187.43 Elevation: 302.823m Grade in: -6.01% Grade out: -5.70% Change: 0.31% K: Curve Length: 1.549m Headlight Distance:			
2.00	0+342.21		

7. LITERATURA

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