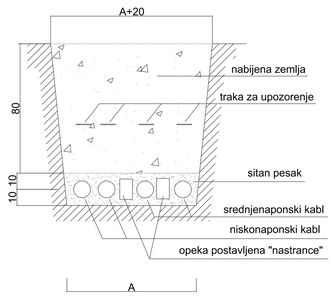
I deo

II deo

III deo

Polaganje više kablova u istom rovu na regulisanom terenu



broj kablova	širina dna rova (A) u metrima
1	0,40
2	0,50
3	0,60
4	0,75
5	0,95
6	1,05
7	1,20
8	1,40
9	1,50
10	1,70

POLAGANJE ENERGETSKIH KABLOVA U ZEMLJI

IV deo

LEGEND/ *Legenda*:

- **Factual status** *Faktičko stanje*
- **Cadastral status** *Katastarsko stanje*
- 102.32 **Existing ground elevation levels** *Postojeće visinske kote terena*
- **Building line** *Građevinska linija*
- 1 **Marks of designed fields** Oznake projektovanih polja
- 0.7% **Designed terrain slopes** *Projektovani nagibi terena*
- **Designed perimeter channel** *Projektovani obodni kanal*
- **Designed drainage channel** *Projektovani drenažni kanal*
- **Pipeline to the return water pumping station** *Cevovod do pumpne stanice povratne vode*
- **Drainage divide** *Vododelnica*
- 118.00 **Designed elevation points** *Projektovane visinske kote*
- **Roadway axis** *Osovina saobraćajnica*
- **Roadway edge** *Ivica kolovoza*
- **Curb edge** *Ivica bankine*
- **Designed embankment slopes** *Projektovane kosine nasipa*
- **PV Panels** *PV Paneli*
- **Designated areas markings - filed 1 and 2** *Oznake projektovanih površina - polja 1 i 2*
- **Designated areas markings - field 4** *Oznake projektovanih površina - polje 4*
- **Designated areas markings - field 3** *Oznake projektovanih površina - polje 3*
- **Designated areas markings - field 5 and 6** *Oznake projektovanih površina- polje 5 i 6*
- **MV cables** *SN Kablovi*
- **MV substation** *SN Transformatorska stanica*
- **Existing safety overflow pipeline** *Postojeći cevovod sigurnosnog preliva*

Postojeći transformator
110/13.8kV
(mesto integracije SE na EE sistem)

Postojeće SN sabirnice
veza PRP postrojenja i trafoa

Naponski nivo13.8(20) kV postrojenje
DEO OBJEKTA mašinske sale namenjenog
za postavljanje priključnog razvodnog postrojenja

Priključenje 13.8 kV postrojenje
veza sa PRP-om
6 kablova XHE49-A 12/20KV

ГЛ=20m (od granice parcele drž.puta IB reda br.27)

ГЛ=5m (od granice parcele drž.puta)

ГЛ=3m

Šesti kabal SN postavljen
od PRP-a (priključnog postrojenja)
do TS10

Šesti SN kabal postavljen
od TS10
do TS9

DRUGI SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS8

TREĆI SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS7

PRVI SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS1

TREĆI SN kabal postavljen
od TS7
do TS6

Četvrti SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS5

Četvrti SN kabal postavljen
od TS5
do TS4

Peti SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS3

Peti SN kabal postavljen
od TS3
do TS2

6XE12/20KVKV

4xE12/20KVKV
III 1xE35KV

1xE12/20KVKV
III 1xE35KV

3xE12/20KVKV

2xE12/20KVKV

1xE12/20KVKV

1 2 3 4 5 6

0.1					
VERSION / VERZIJA	DATE / DATUM	DESIGNED BY / PROJEKTOVAO	CHECKED BY / KONTROLISAO	APPROVED BY / ODOBRIO	DESCRIPTION / OPIS
			REVISIONS / REVIZIJE		

DESIGNED BY / PROJEKTOVAO	CHECKED BY / KONTROLISAO	APPROVED BY / ODOBRIO
Aleksandar Janjić, dia.	Radovan Tomašić	Jeremy Lazenby
VERSION / VERZIJA	SCALE / SKALA	DATE / DATUM
0.1	1:2000	2024-10-31

DRAWING NO / *BROJ CRTEŽA*: WB285RBENE02-111-CD-EL-DWG-003

DRAWING TITLE / *NAZIV CRTEŽA*: **Overview of the Situation** / *Pregledna situacija*

SUBPROJECT / *PROJEKTANT*: GOPA-INTERNATIONAL ENERGY CONSULTANTS GMBH, OGRANAK BEOGRAD, Knez Mihajlova 1-3, 11000 Beograd, Broj Licence: 00217-6427 2024 14810 005 000 000 001

SUBPROJECT COMPONENT / *DEO PROJEKTA*: **Book 4** / *Sveska 4*; **Project of electrical installations** / *Projekat elektroenergetskih instalacija*; **Conceptual design** / *Idejno rešenje*

BENEFICIARY / *KORISNIK*: Akcionarsko društvo Elektro privreda Srbije / *Joint stock company Elektro privreda Srbije*, Balkanska 13

LOGO OF THE BENEFICIARY

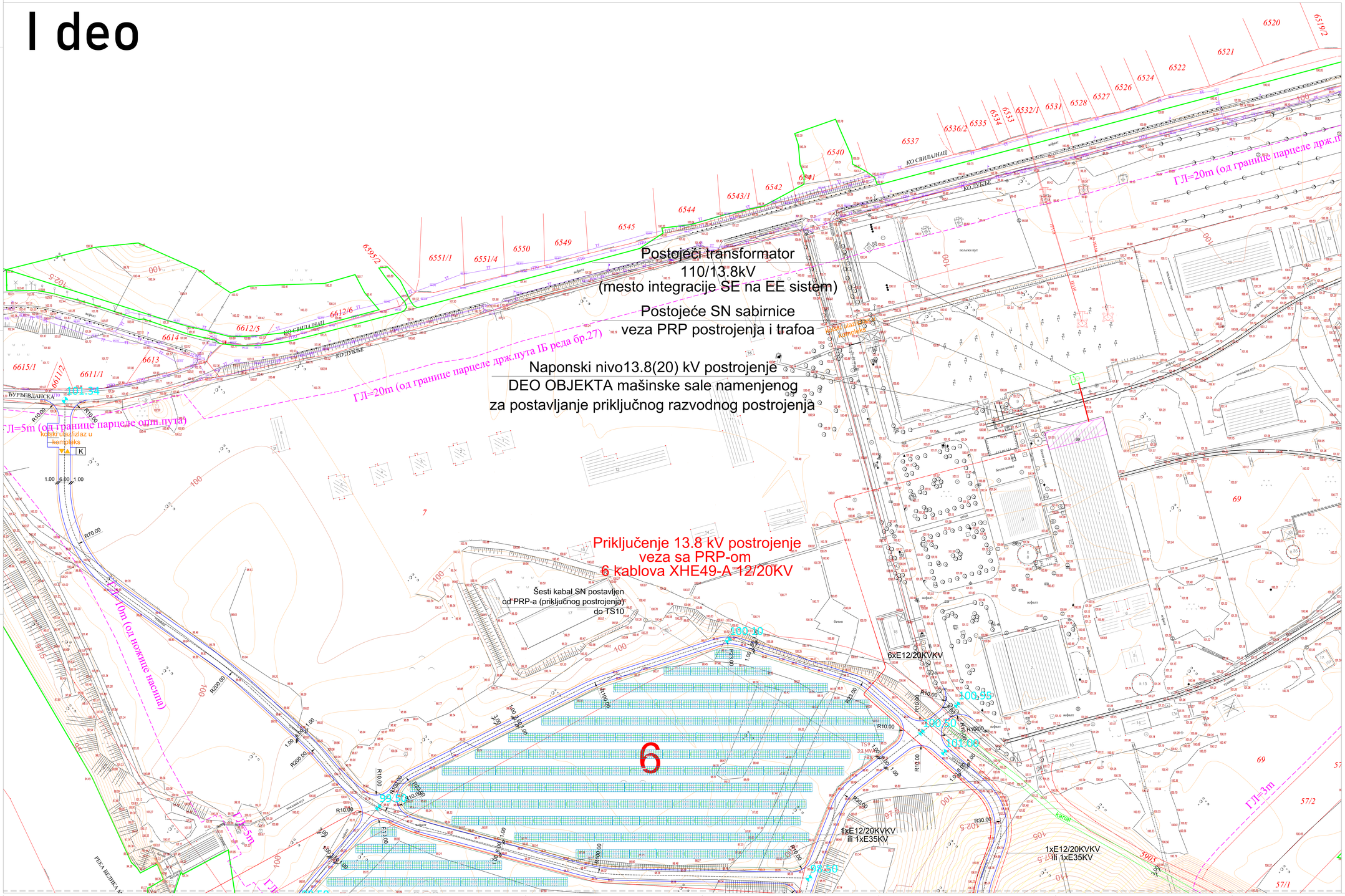
PROJECT / *XXXXXXXX*: Western Balkans Investment Framework (WBIF), Infrastructure Project Facility Technical Assistance 11 (IPF11)

This project is funded by the European Union

Project Management: COWI | IPF11, In consortium with CeSTRA, GOPA, Detecon, TRENECON

Designer

I deo



LEGEND/ *Legenda*:

- **Factual status** / *Faktičko stanje*
- **Cadastral status** / *Katastarsko stanje*
- **Existing ground elevation levels** / *Postojeće visinske kote terena*
- **Building line** / *Građevinska linija*
- **Marks of designed fields** / *Oznake projektovanih polja*
- **Designed terrain slopes** / *Projektovani nagibi terena*
- **Designed perimeter channel** / *Projektovani obodni kanal*
- **Designed drainage channel** / *Projektovani drenažni kanal*
- **Pipeline to the return water pumping station** / *Cevovod do pumpne stanice povratne vode*
- **Drainage divide** / *Vododelnica*
- **Designed elevation points** / *Projektovane visinske kote*
- **Roadway axis** / *Osovina saobraćajnica*
- **Roadway edge** / *Ivica kolovoza*
- **Curb edge** / *Ivica bankine*
- **Designed embankment slopes** / *Projektovane kosine nasipa*
- **PV Panels** / *PV Paneli*
- **Designated areas markings - filed 1 and 2** / *Oznake projektovanih površina - polja 1 i 2*
- **Designated areas markings - field 4** / *Oznake projektovanih površina - polje 4*
- **Designated areas markings - field 3** / *Oznake projektovanih površina - polje 3*
- **Designated areas markings - field 5 and 6** / *Oznake projektovanih površina- polje 5 i 6*
- **MV cables** / *SN Kablovi*
- **MV substation** / *SN Transformatorska stanica*
- **Existing safety overflow pipeline** / *Postojeći cevovod sigurnosnog preliva*

VERSION / VERZIJA	DATE / DATUM	DESIGNED BY / PROJEKTOVAO	CHECKED BY / KONTROLISAO	APPROVED BY / ODOBRIO	DESCRIPTION / OPIS
0.1					

REVISIONS / *REVIZIJE*

DESIGNED BY / PROJEKTOVAO	CHECKED BY / KONTROLISAO	APPROVED BY / ODOBRIO
Aleksandar Janjić, dis.	Radovan Ceramilac	Jeremy Lazenby
VERSION / VERZIJA	SCALE / SKALA	DATE / DATUM
		December 2024

DRAWING NO / *BROJ CRTEŽA*: WB28SRBENE02-111-CD-EL-DWG-003/1

DRAWING TITLE / *NAZIV CRTEŽA*: Situation Part 1 / *Situacija - deo 1*

SUBPROJECT / *PROJEKTANT*: GOPA-INTERNATIONAL ENERGY CONSULTANTS GMBH, OGRANAK BEOGRAD, Kneg Mihajlova 1-3, 11000 Beograd, Broj Licence: 002174027 2024 14810 005 000 000 001

intec

SUBPROJECT COMPONENT / *DEO PROJEKTA*: Book 4 / *Sveska 4*; Project of electrical installations / *Projekat elektroenergetskih instalacija*; Conceptual design / *Idejno rešenje*

BENEFICIARY / *KORISNIK*: Akcionarsko društvo Elektro privreda Srbije / *Joint stock company Elektro privreda Srbije*; Balkanska 13

LOGO OF THE BENEFICIARY

PROJECT / *XXXXXXXX*: Western Balkans Investment Framework (WBIF) Infrastructure Project Facility Technical Assistance 11 (IPF11)

This project is funded by the European Union

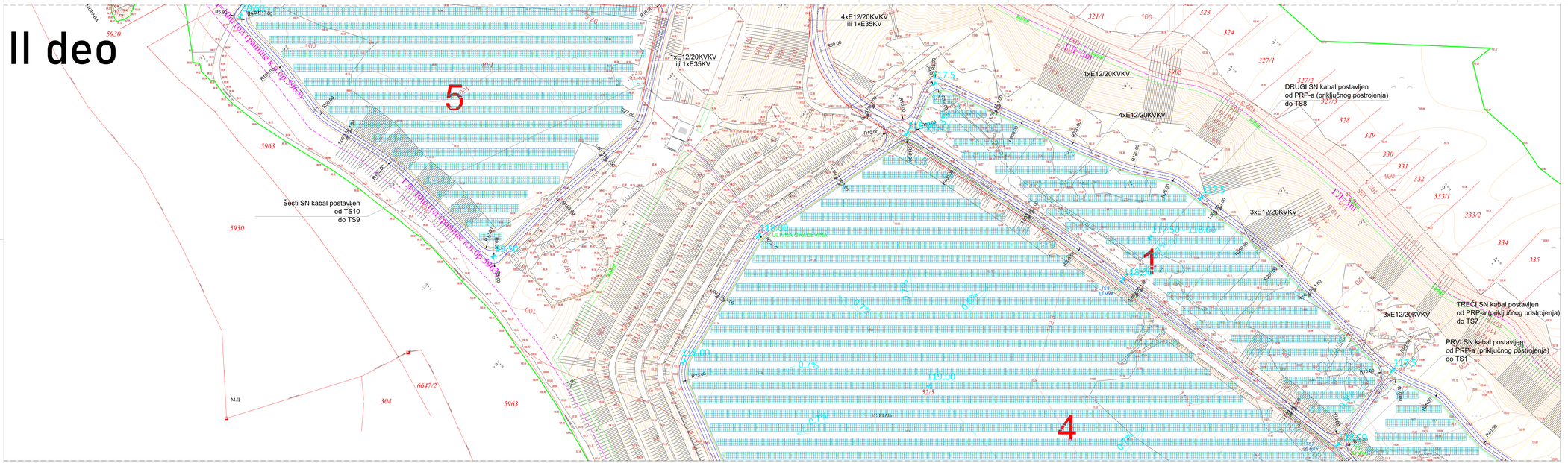
European Investment Bank | Global

Project Management: COWI | IPF11

In consortium with CeSTRA, GOPA, Detecon, TRENECON

Designer

II deo



LEGEND/ *Legenda*:

- **Factual status** *Faktičko stanje*
- **Cadastral status** *Katastarsko stanje*
- **Existing ground elevation levels** *Postojeće visinske kote terena*
- **Building line** *Građevinska linija*
- **Marks of designed fields** *Oznake projektovanih polja*
- **Designed terrain slopes** *Projektovani nagibi terena*
- **Designed perimeter channel** *Projektovani obodni kanal*
- **Designed drainage channel** *Projektovani drenažni kanal*
- **Pipeline to the return water pumping station** *Cevovod do pumpne stanice povratne vode*
- **Drainage divide** *Vododelnica*
- **Designed elevation points** *Projektovane visinske kote*
- **Roadway axis** *Osovina saobraćajnica*
- **Roadway edge** *Ivica kolovoza*
- **Curb edge** *Ivica bankine*
- **Designed embankment slopes** *Projektovane kosine nasipa*
- **PV Panels** *PV Panell*
- **Designated areas markings - filed 1 and 2** *Oznake projektovanih površina - polja 1 i 2*
- **Designated areas markings - field 4** *Oznake projektovanih površina - polje 4*
- **Designated areas markings - field 3** *Oznake projektovanih površina - polje 3*
- **Designated areas markings - field 5 and 6** *Oznake projektovanih površina- polje 5 i 6*
- **MV cables** *SN Kablovi*
- **MV substation** *SN Transformatorska stanica*
- **Existing safety overflow pipeline** *Postojeći cevovod sigurnosnog preliva*

NO.				
VERSION/ DATE VERZIJA, DATUM	DESIGNED BY PROJEKTOVAO	CHECKED BY KONTROLISAO	APPROVED BY ODOBRIO	DESCRIPTION OPIS
REVISIONS/ *REVIZIJE*				
DESIGNED BY PROJEKTOVAO		CHECKED BY KONTROLISAO	APPROVED BY ODOBRIO	
Aleksandar Jevtić, dipl. ing.		Radovan Ciganović	Jasmina Lazarević	
VERSION VERZIJA		SCALE SKALA	DATE DATUM	
				December 2024

DRAWING NO
BROJ CRTEŽA: **WB2/SRBEN/EI02-111-CO-EL-DWG-0032**

DRAWING TITLE
NAZIV CRTEŽA: **Situation Part 2** / *Situacija - deo 2*

SUBPROJECT
PROJEKTANT: GOPA INTERNATIONAL ENERGY CONSULTANTS GMBH
Frankfurter Straße 29-35
Kreis Mettmann D, 61352 Bad Homburg
Reg Licence: 8611/16837 28/24 24/415 805 600 060 001

SUBPROJECT COMPONENT
DEO PROJEKTA: **Book 4** / *Svezka 4*
Project of electrical installations / *Projekat elektroenergetskih instalacija*
Conceptual design / *Idejno rešenje*

BENEFICIARY
KORISNIK: Akcionarsko društvo Elektro privreda Srbije /
Joint stock company Elektro privreda Srbije
Balkanska 13

LOGO OF THE BENEFICIARY

PROJECT
XXXXXXXX: **Western Balkans Investment Framework (WBIF)**
Infrastructure Project Facility Technical Assistance 11 (IPF11)

This project is funded by the European Union

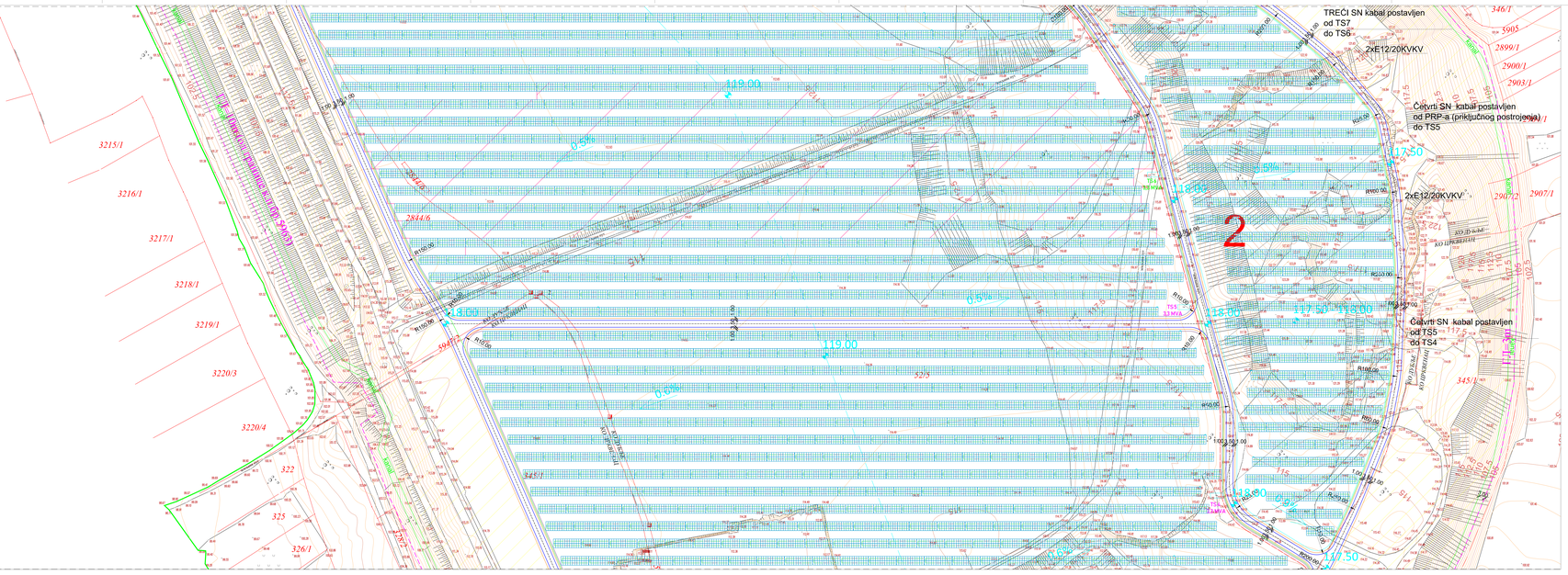
Project Management by: COWI | IPF11
In consortium with CeSTRA, GOPA, Detecon, TRENECON

Designed by:

III deo

LEGEND/ *Legenda*:

- **Factual status** *Faktičko stanje*
- **Cadastral status** *Katastarsko stanje*
- **Existing ground elevation levels** *Postojeće visinske kote terena*
- **Building line** *Gradevinska linija*
- **Marks of designed fields** Oznake projektovanih polja
- **Designed terrain slopes** *Projektovani nagibi terena*
- **Designed perimeter channel** *Projektovani obodni kanal*
- **Designed drainage channel** *Projektovani drenažni kanal*
- **Pipeline to the return water pumping station** *Cevovod do pumpne stanice povratne vode*
- **Drainage divide** *Vododelnica*
- **Designed elevation points** *Projektovane visinske kote*
- **Roadway axis** *Osovina saobraćajnica*
- **Roadway edge** *Ivica kolovoza*
- **Curb edge** *Ivica bankine*
- **Designed embankment slopes** *Projektovane kosine nasipa*
- **PV Panels** *PV Panels*
- **Designated areas markings - filed 1 and 2** *Oznake projektovanih površina - polja 1 i 2*
- **Designated areas markings - field 4** *Oznake projektovanih površina - polje 4*
- **Designated areas markings - field 3** *Oznake projektovanih površina - polje 3*
- **Designated areas markings - field 5 and 6** *Oznake projektovanih površina- polje 5 i 6*
- **MV cables** *SN Kablovi*
- **MV substation** *SN Transformatorska stanica*
- **Existing safety overflow pipeline** *Postojeći cevovod sigurnosnog preliva*


TREĆI SN kabal postavljen
od TS7
do TS6
2xE12/20KVKV
Četvrti SN kabal postavljen
od PRP-a (priključnog postrojenja)
do TS5
2xE12/20KVKV
Četvrti SN kabal postavljen
od TS5
do TS4
2
3215/1
3216/1
3217/1
3218/1
3219/1
3220/3
3220/4
322
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3215/2
3214/4
3214/3
3214/2
3214/1
3213/1
3212/1
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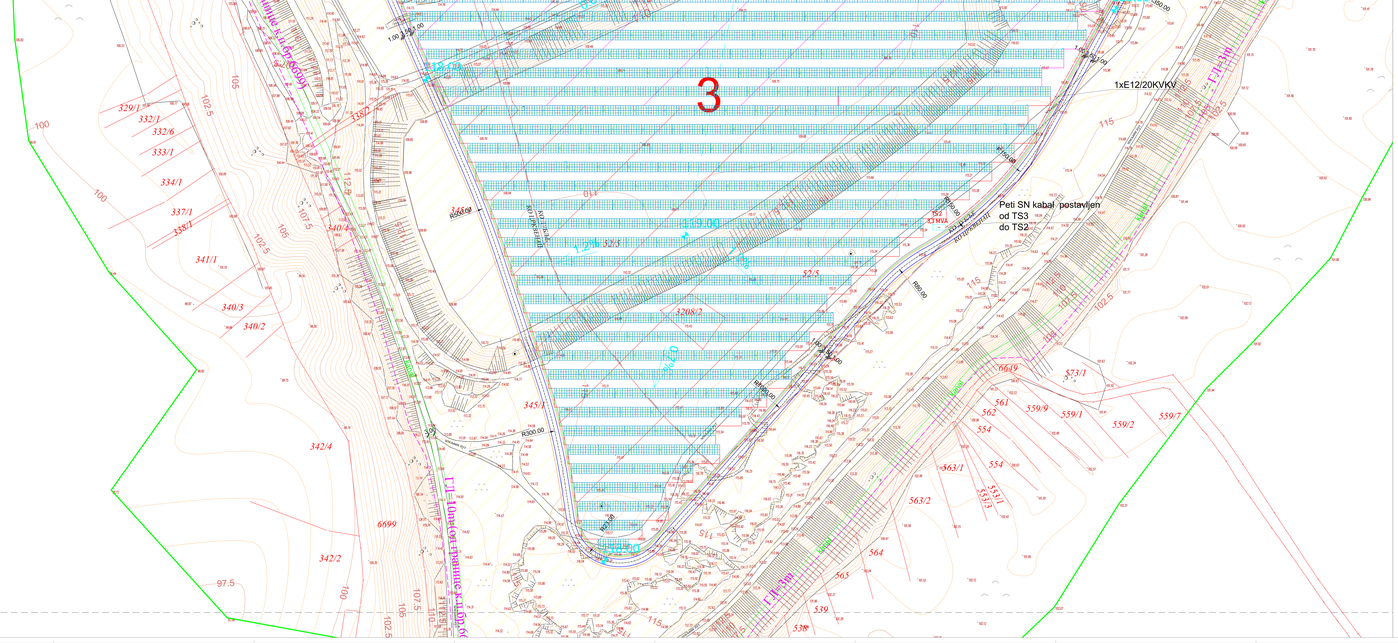
LEGEND/ *Legenda*:

- **Factual status** *Faktičko stanje*
- **Cadastral status** *Katastarsko stanje*
- **Existing ground elevation levels** *Postojeće visinske kote terena* — 102.32
- **Building line** *Građevinska linija*
- **Marks of designed fields** *Oznake projektovanih polja* — 1
- **Designed terrain slopes** *Projektovani nagibi terena* — 0.7%
- **Designed perimeter channel** *Projektovani obodni kanal*
- **Designed drainage channel** *Projektovani drenažni kanal*
- **Pipeline to the return water pumping station** *Cevovod do pumpne stanice povratne vode*
- **Drainage divide** *Vododelnica*
- **Designed elevation points** *Projektovane visinske kote* — 118.00
- **Roadway axis** *Osovina saobraćajnica*
- **Roadway edge** *Ivica kolovoza*
- **Curb edge** *Ivica bankine*
- **Designed embankment slopes** *Projektovane kosine nasipa*
- **PV Panels** *PV Paneli*
- **Designated areas markings - filed 1 and 2** *Oznake projektovanih površina - polja 1 i 2*
- **Designated areas markings - field 4** *Oznake projektovanih površina - polje 4*
- **Designated areas markings - field 3** *Oznake projektovanih površina - polje 3*
- **Designated areas markings - field 5 and 6** *Oznake projektovanih površina- polje 5 i 6*
- **MV cables** *SN Kablovi*
- **MV substation** *SN Transformatorska stanica*
- **Existing safety overflow pipeline** *Postojeći cevovod sigurnosnog preliva*



R.r.	VERSION DATE	DESIGNED BY	CHECKED BY	APPROVED BY	DESCRIPTION
	VERZIJA - DATUM	PROJEKTOVAO	KONTROLISAO	ODOBRIO	OPIS
			REVISIONS		
	DESIGNED BY	PROJEKTOVAO	CHECKED BY	KONTROLISAO	APPROVED BY	ODOBRIO
	Aleksandar Jevtić, dipl.		Predrag Cvetković		Jasmina Lazarević	
	VERSION	VERZIJA	SCALE	SKALA	DATE	DATUM
			1:5000			Decembar 2024

DRAWING NO / *BROJ CRTEŽA*: **WB2ISRBEN002-111-CO-EL-DWG-0003-4**

DRAWING TITLE / *NAZIV CRTEŽA*: **Situation Part 4** / *Situacija - deo 4*

SUBPROJECT / *PROJEKTANT*: GOPA-INTERNATIONAL ENERGY CONSULTANTS GMBH; Gesellschaft mbH; Kneza Miloša 9, 11, 11000 Beograd; Reg.Licence: 06/21/19227 2024 24410 005 000 000 001

SUBPROJECT COMPONENT / *DEO PROJEKTA*: **Book 4** / *Svezka 4* / **Project of electrical installations** / *Projekat elektroenergetskih instalacija* **Conceptual design** / *Idejno rešenje*

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