KARAKTERISTIČNI UZDUŽNI PRESJEK
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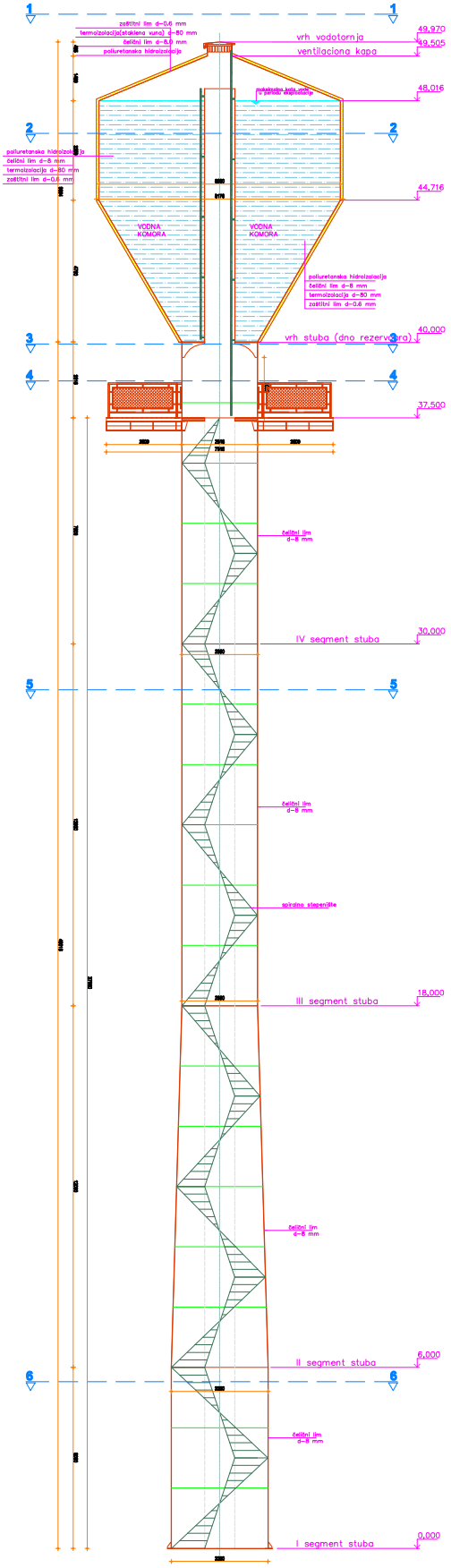

KARAKTERISTIČNI POPREČNI PRESJEK
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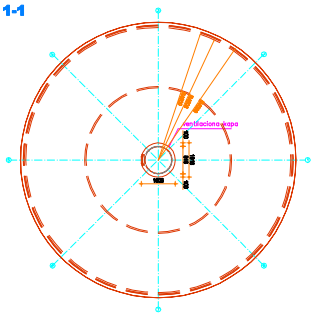
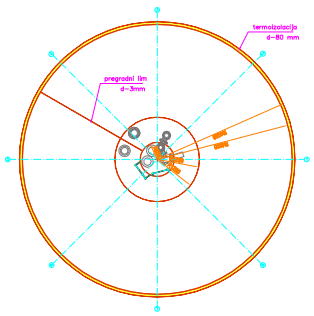
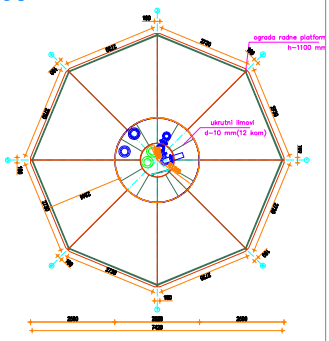
1-1



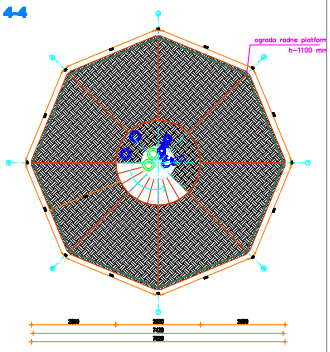
2-2



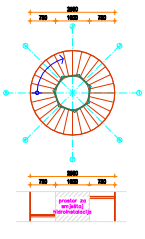
3-3



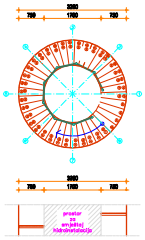
4-4



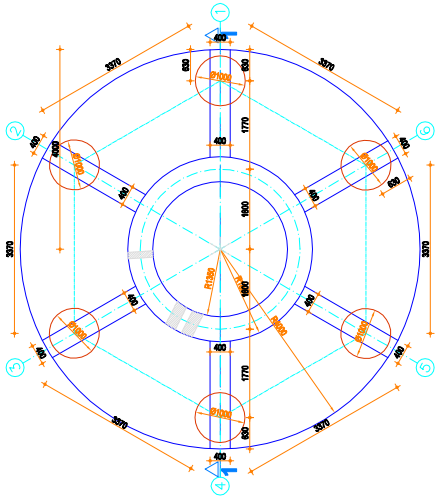
5-5
PRESJEK KROZ
III i IV segment stuba



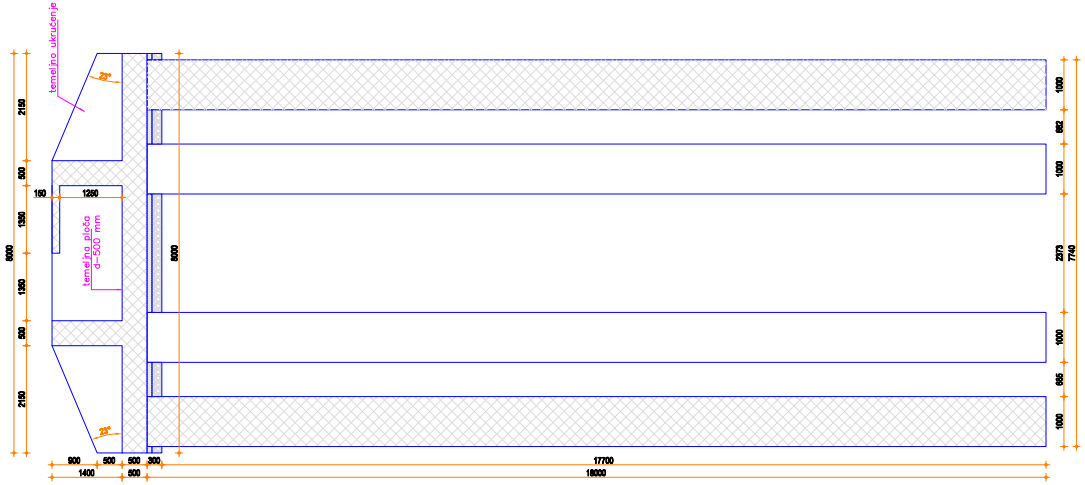
6-6
PRESJEK KROZ
I segment stuba



INK CONSTRUCTOR d.o.o. Banja Luka	
Investitor:	Gradski Vodovod-Banja Luka
Projekat:	GLAVNI PROJEKAT Vodotornja "Donesprevo" V=200,0 m3 u sopstvi
Projektant (ime i prezime):	Milan Rodić, dipl. inž. građ.
Projektant:	Milan Bodolan, dipl. inž. građ.
Broj projekta: 13-GA-010 Broj crteža: 03/2013	Naziv crteža: DETALJNO OPTEREĆENJE I NAMJENSKI PRESJECI VODOTORNJA
Format: A0	Crteži: KO-01



OSNOVA TEMELJNE KONSTRUKCIJE
R=1:50

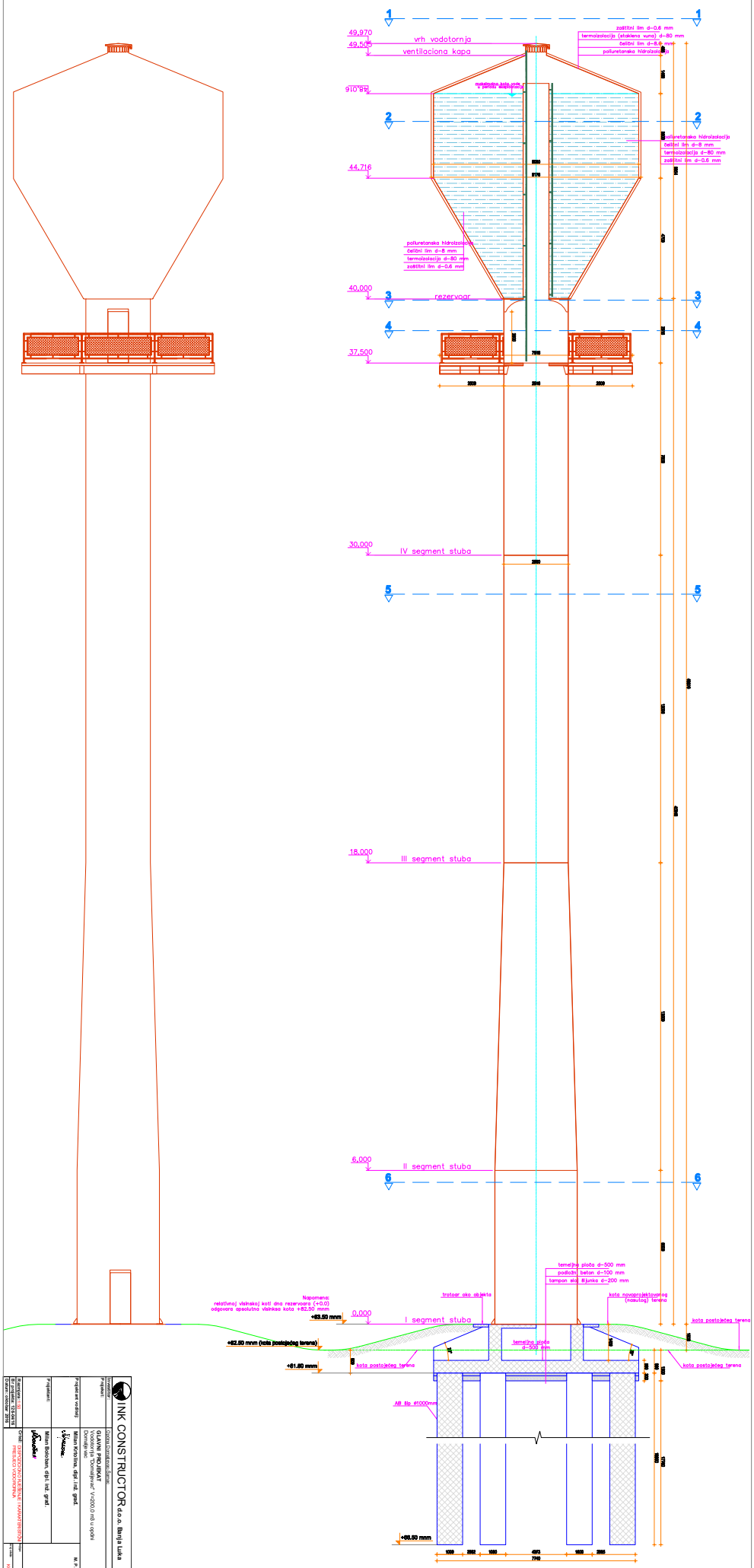


PRESJEK KROZ TEMELJNU KONSTRUKCIJU 1-1
R=1:50

INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Općina Domaljevac-Šamac	
Projekat:	**GLAVNI PROJEKAT** Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	**Milan Krtolina, dipl. inž. građ.**	M. P.
Projektant:	**Milan Boloban, dipl. inž. građ.**	
Razmjera: 1:50	Crtež: OSNOVA I PRESJEK KROZ TEMELJNU KONSTRUKCIJU	Broj lista: 1/
Br projekta: 126-04/16		Broj crteža: KČ-01A
Datum: oktobar 2016		

IZGLED VODOTORNJA
R=1:50

PRESJEK VODOTORNJA
R=1:50



INK CONSTRUCTOR d.o.o. Banja Luka

Investitor: Gradski vodovod-kanalizacija

Projekat: GLAVNI PROJEKAT
Vodotornja "Donja Ćemalovac" V=200,0 m3 u sopstvi

Projektant: Milan Rodić dipl. inž. građ.

Projektant saradnik: Milan Rodić dipl. inž. arh.

Glavni inženjer projekta: Branislav Stojanović dipl. inž. arh.

Glavni izvršilac projekta: Branislav Stojanović dipl. inž. arh.

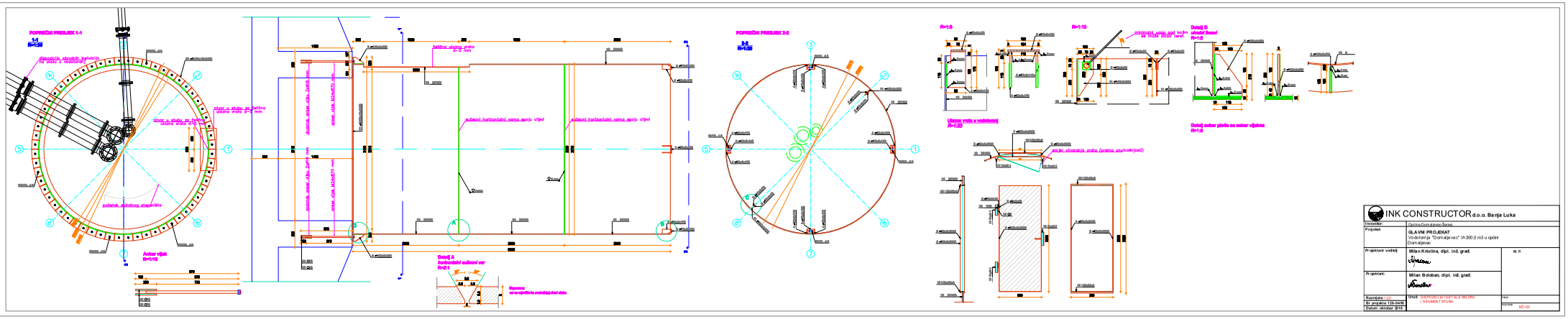
Crtež: PRESJEK VODOTORNJA

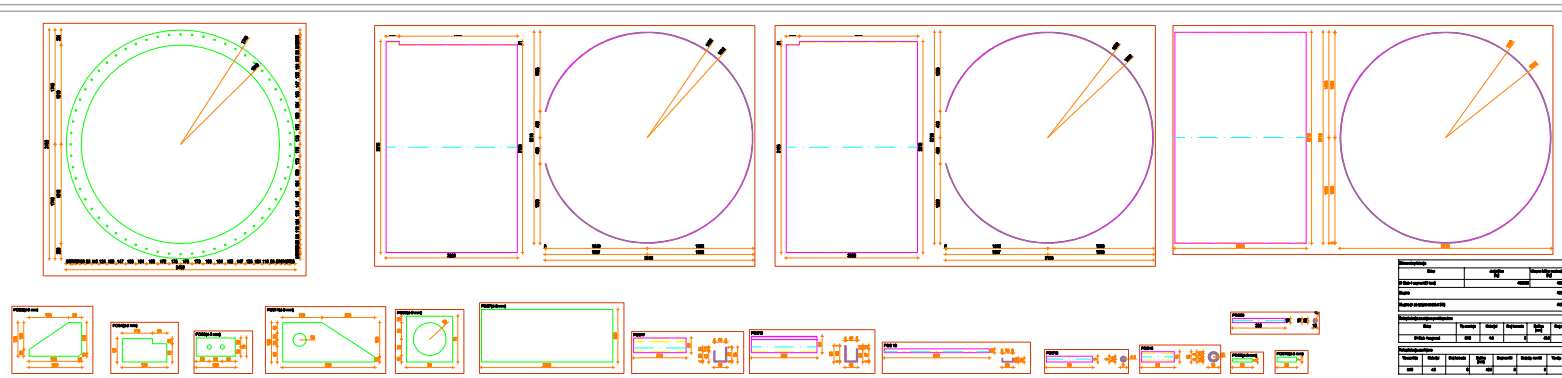
Broj: KG-07

Mjerilo: 1:50

Datum: oktobar 2015

M.P.


POPREČNI PRESJEK 1-1
1-1
R=1:25
POPREČNI PRESJEK 3-3
3-3
R=1:25
Detalj A
R=1:1
Anker vijak
R=1:10
R=1:5
R=1:10
Detalj B
R=1:5
Detalj anker ploče sa ankor vijakom
R=1:5
INK CONSTRUCTOR d.o.o. Banja Luka
Investitor:
Projekat:
GLAVNI PROJEKAT
Projektant vodilj:
Milan Krtolina, dipl. inž. građ.
M. P.
Projektant:
Milan Bobdan, dipl. inž. građ.
Razmjera: 1:20
Br projekta 125-04/16
Datum: oktobar 2016
SADRŽAJ:
SIDROVOD ZA TORNJ ALB 9 SKOPA
I SEGMENT STUBA
Broj lista
KC-03



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19	[illegible]	[illegible]	2		[illegible]	[illegible]	[illegible]	[illegible]
Ukupno								[illegible]

Oznaka	Dimenzije (cm)	Masa (kg)	Ukupna masa (kg)	Ukupna masa (kg)
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Ukupno				[illegible]

Oznaka	Dimenzije (cm)	Masa (kg)	Ukupna masa (kg)	Ukupna masa (kg)
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Ukupno				[illegible]

Oznaka	Dimenzije (cm)	Masa (kg)	Ukupna masa (kg)	Ukupna masa (kg)
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ukupno				[illegible]

Oznaka	Dimenzije (cm)	Masa (kg)	Ukupna masa (kg)	Ukupna masa (kg)
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Ukupno				[illegible]

Oznaka	Dimenzije (cm)	Masa (kg)	Ukupna masa (kg)	Ukupna masa (kg)
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Ukupno				[illegible]

INK CONSTRUCTOR d.o.o. Banja Luka

Investitor: Grad na Donjem Kaćanu

Projekat: GLAVNI PROJEKAT
Vrsta objekta: "Domaćinstvo" V=200,0 m3 u općini Donji Kaćan

Projektant nosilaj: Milan Krstić dipl. ing. G. grad. — M. P.

Projektant: Milan B. obdan, dipl. inž. grad.

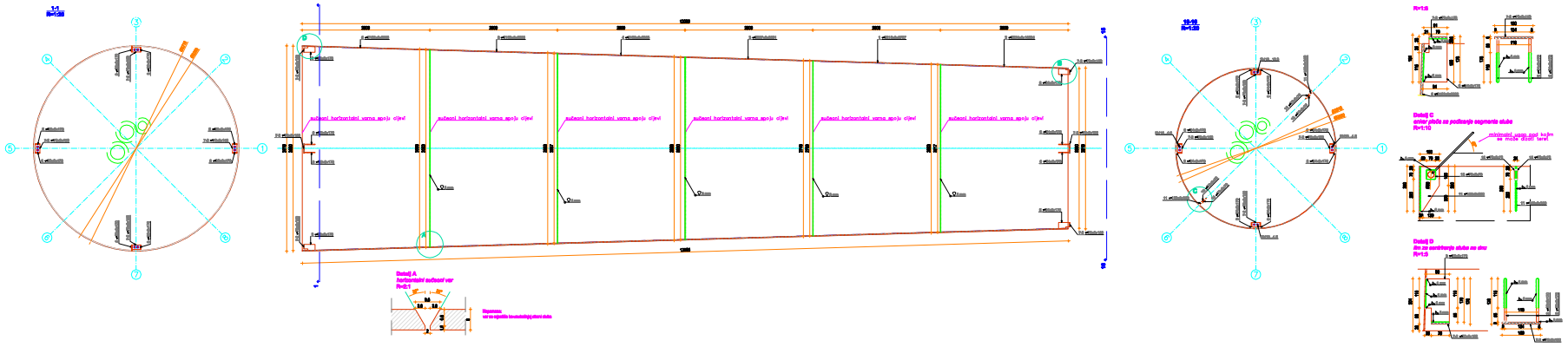
Razmjera: 1:
Br.projekta: 126-08/18
Datum: oktobar 2018

NAZIV: NACRTI OD OPŠTEG KONSTRUKCIJE
I BIGENIJI STUBA

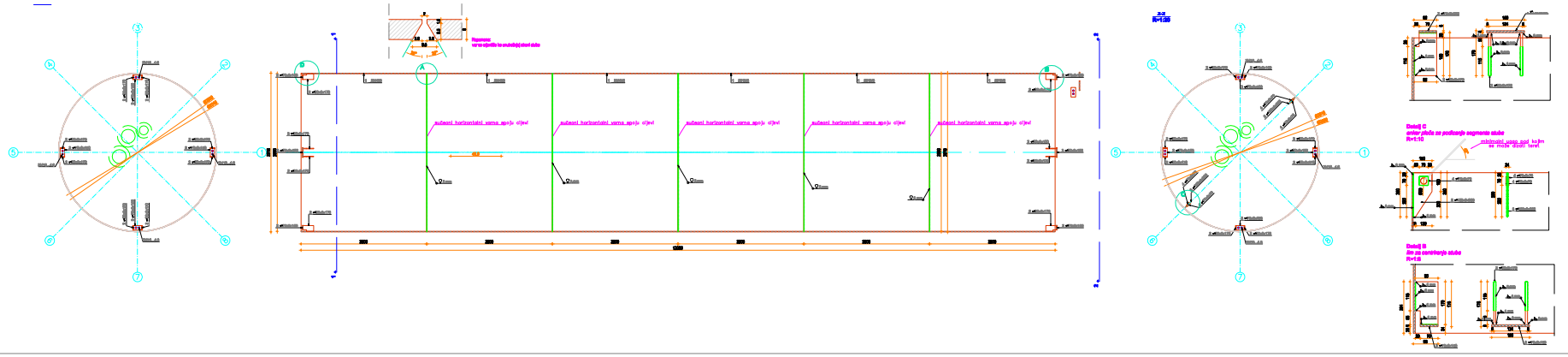
Broj: [illegible]

Prilog: [illegible]

Broj nacrta: K.O.-03A

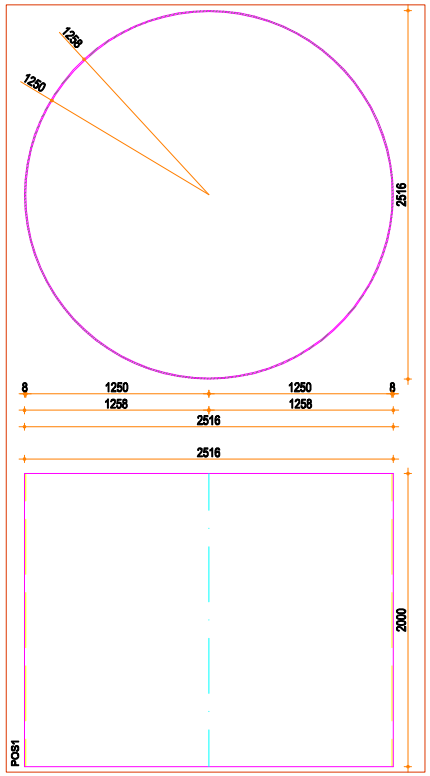


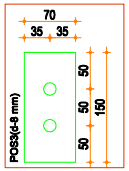
INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Opština Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant vodilj:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Bobban, dipl. inž. građ.	
Razmjera: 1:20	GRAĐ: DIREKCIJA FORT AL-8 SKOPJE I-5 SOMENT STUBA	Prilog:
Br projekta 125-04/16		Nacrt broj: KC-04
Datum: oktobar 2016		

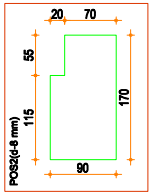


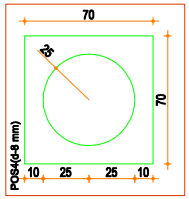
INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Opština Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u opšini Domaljevac	
Projektant vodilj:	Milan Krstolina, dipl. inž. građ.	M. P.
Projektant:	Milan Bobdan, dipl. inž. građ.	
Razmjera: 1:20	GRAĐ: DETAPOJEDINIH DIJELOVA 18 SEGMENT STUBA	Prilog:
Br projekta 125-04/16		Broj crteža: KC-05
Datum: oktobar 2016		

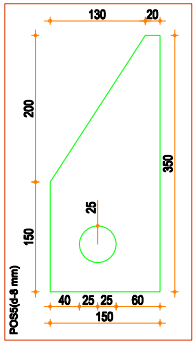
RADIONIČKI CRTEŽI
III segment stuba











POS	Tip	Materijal	n [kom]	Širina [mm]	Debljina [mm]	Dužina [mm]	Jed.težina [kg/m]	Težina po kom. [kg]	Ukupna težina-neobr. [kg]	Ukupna težina-obr. [kg]
03 Sub - III segment (1 kom)										
1	○2516/6	Č0561	7			2000.00	494.61	989.62	6927.32	6927.32
2	⌐90x8x170	Č0561	16	90.00	8.00	170.00	64.00	0.98	15.67	14.54
3	⌐70x8x150	Č0561	8	70.00	8.00	150.00	64.00	0.67	5.36	5.38
4	⌐70x8x70	Č0561	4	70.00	8.00	70.00	64.00	0.31	1.25	0.75
5	⌐150x8x350	Č0561	2	150.00	8.00	350.00	64.00	3.36	6.72	4.80
Ukupno									6956.33	6952.79

Profili - rekapitulacija

Tip profila	Materijal	Jed.težina [kg/m]	Ukupna težina [kg]	Ukupna težina [kg]
○2516/6	Č0561	494.61	6927.32	6927.32
Ukupno			6927.32	6927.32

Limovi - rekapitulacija

Debljina [mm]	Materijal	Jed.težina [kg/m2]	Ukupna težina [kg]	Ukupna težina [kg]
8	Č0561	64.00	29.02	25.47
Ukupno			29.02	25.47

Zbirna rekapitulacija

Sklop	Jed.težina [kg]	Ukupna težina neobrađena [kg]	Ukupna težina obrađena [kg]
03 Sub - III segment (1 kom)	6956.33	6956.33	6952.79
Ukupno		6956.33	6952.79
Ukupno (+ za spojna sredstva 3%)		7165.03	7161.37

Rekapitulacija zavrtnjeva po sklopovima

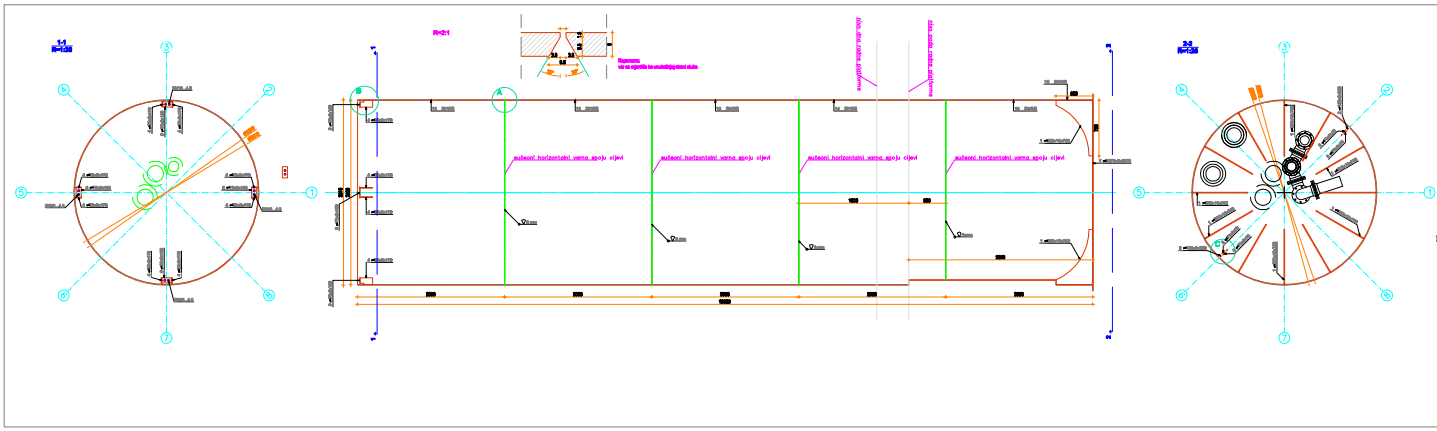
Sklop	Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtke
03 Sub - III segment	M16	10.9	16	40.0	16	0	

Rekapitulacija zavrtnjeva

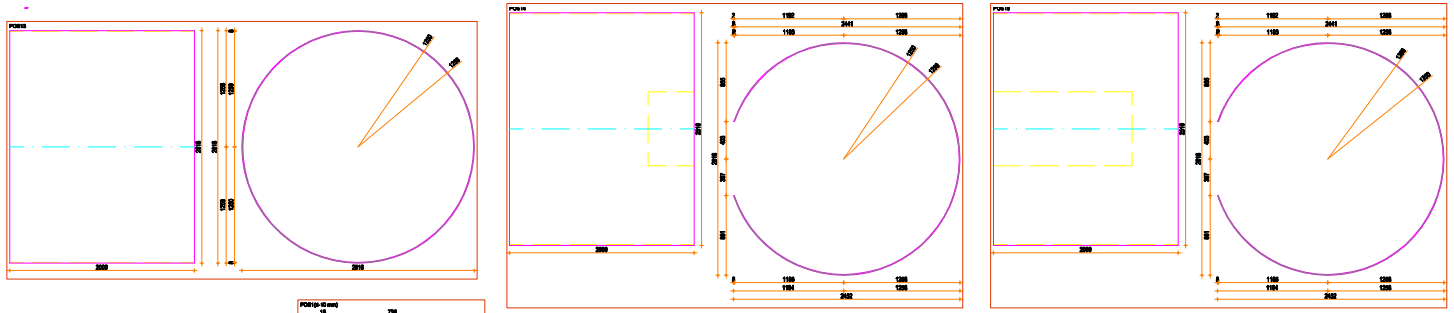
Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtke
M16	10.9	16	40.0	16	0	

INK CONSTRUCTOR d.o.o. Banja Luka

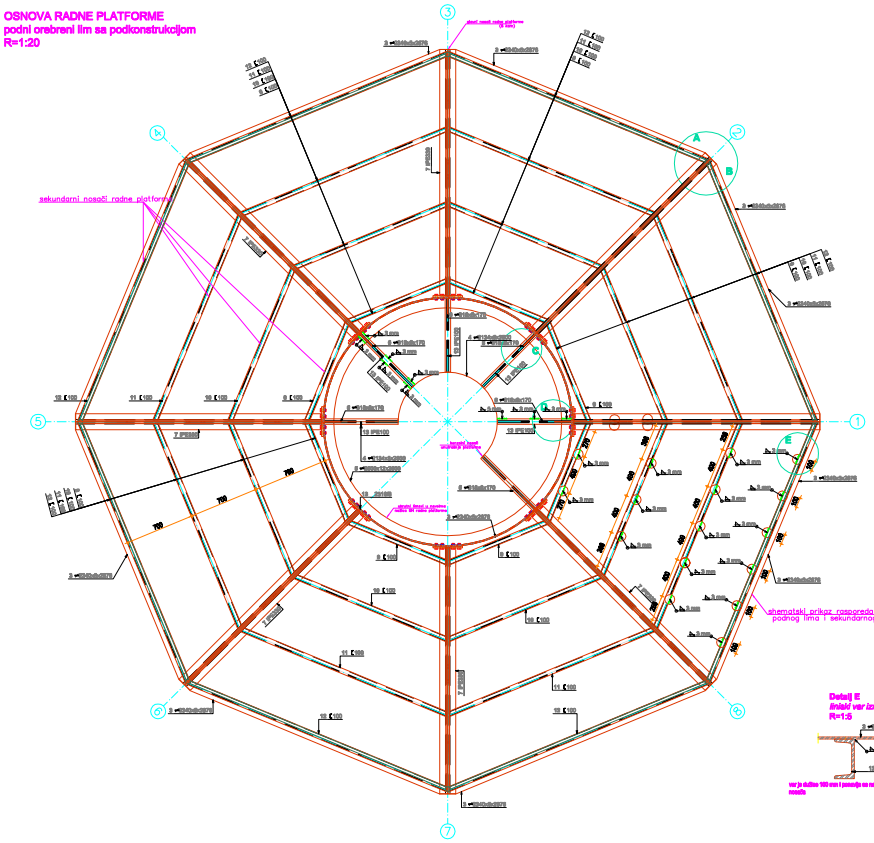
Investitor:	Općina Domaljevac-Šamac	
Projekat:	**GLAVNI PROJEKAT** Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	**Milan Krtolina, dipl. inž. građ.**	M. P.
Projektant:	**Milan Boloban, dipl. inž. građ.**	
Razmjera: 1:20	Crtež: DETALJI I RADIONIČKI CRTEŽI KONSTRUKCIJE I SEGMENT STUBA	knjiga: 1/1
Br projekta: 126-04/16		broj crteža: KČ-05A
Datum: oktobar 2016		



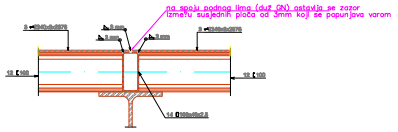
INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Opština Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant vodećij:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Bobdan, dipl. inž. građ.	
Razmjera: 1:20	Crtež: DETAJI POZITIVA TOSTI KLB SKLOPA I V SEGMENT STUBA	Prilog:
Br projekta 125-04/16		Nacrt broj: KC-06
Datum: oktobar 2016		


POS10
POS11
POS12
POS13(p-5 mm)
POS14(p-5 mm)
POS15(p-5 mm)
POS16(p-5 mm)
POS17(p-10 mm)
POS18(p-5 mm)
POS19(p-5 mm)
POS20(p-5 mm)
POS21(p-5 mm)
POS16
POS17

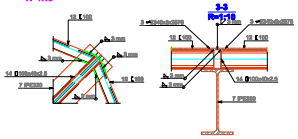
OSNOVA RADNE PLATFORME
podni orebreni lim sa podkonstrukcijom
R=1:20



Detalj A
veze podnog lima i sekundarnog (U) nosača radne platforme
R=1:10

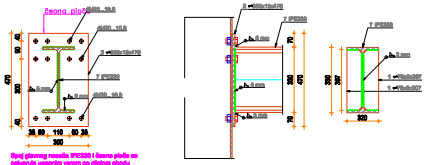


Detalj B
veze sekundarnog i glavnog nosača radne platforme
R=1:10



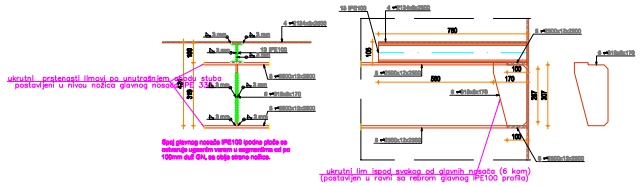
Veze zavrtjevima se sastavaju preko donje nožice U100 profila i gornje nožice IPE330 nosača.

Detalj C
veze glavnog nosača radne platforme i stuba vodotornja
R=1:10



Spoj glavnog nosača IPE330 i čeone ploče se ostvaruje ugaonim varom po cijelom obodu poprečnog presjeka nosača.
Spoj čeone ploče sa stubom vodotornja se ostvaruje pomoću visokovrijednih zavrtnjeva prema skici.

Detalj D
veze glavnog nosača unutrašnjeg podesta i podnog lima
R=1:10

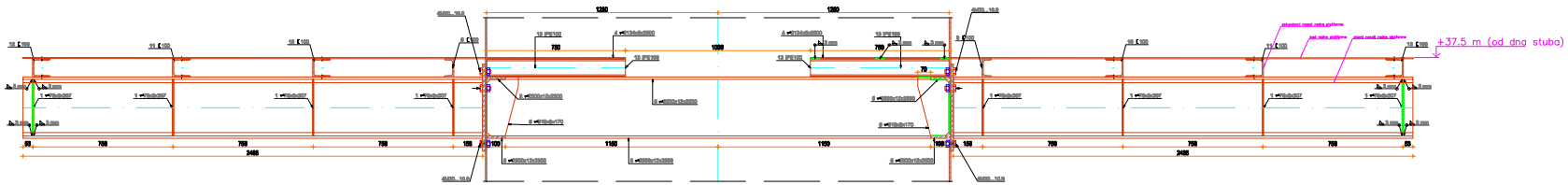


Spoj glavnog nosača IPE100 čeone ploče se ostvaruje ugaonim varom u segmentima od po 100mm duž OH, sa obje strane nosača.

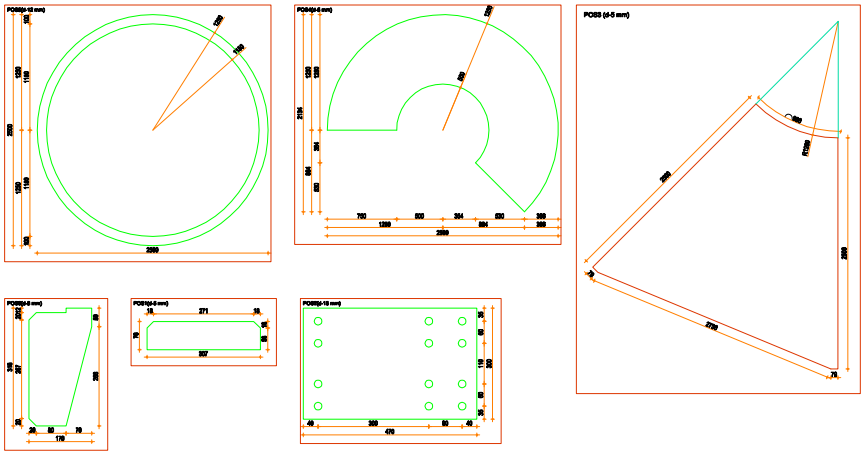
Detalj E
detalj var između sekundarnog nosača i podnog lima
R=1:5

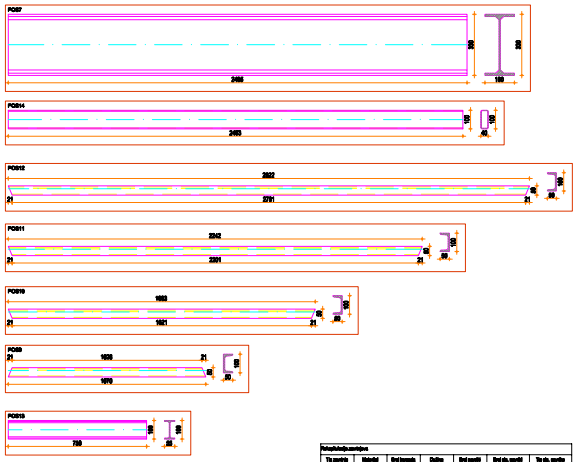
var je dužine 100 mm i ponavlja se na svaki 400 mm po dužini sek. nosača

Presjek kroz radnu platformu za pravce 1-5, 4-6
R=1:10

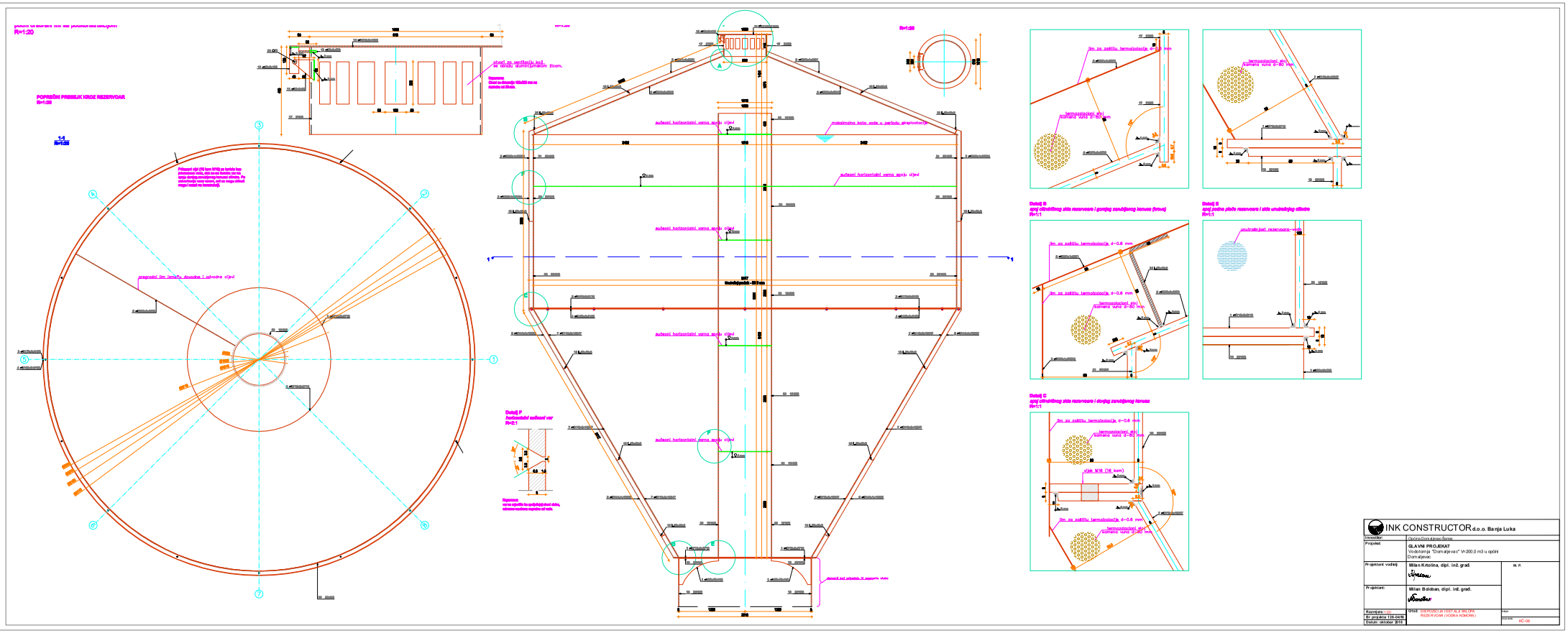


INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Općina Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Boloban, dipl. inž. građ.	
Razmjera: 1:20	Crtež: DISPOZICIJA I DETALJI SKLOPA RADNA PLATFORMA	Broj A-4 1
Br projekta: 126-04/16		
Datum: oktobar 2016		Broj iz radn. KČ-07



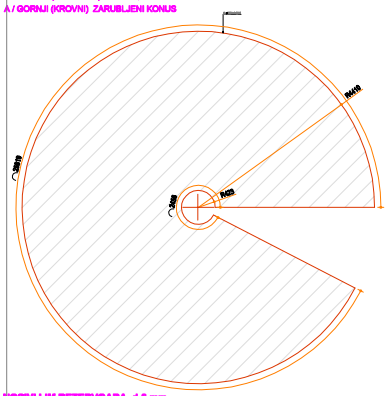


Pozicija	Tip zavrtnja	Materijal	Broj komada	Duž. [mm]	Broj navoja	Broj elem. navoja	Tip elem. navoja
	M20	10.9	96	45,0	96	0	

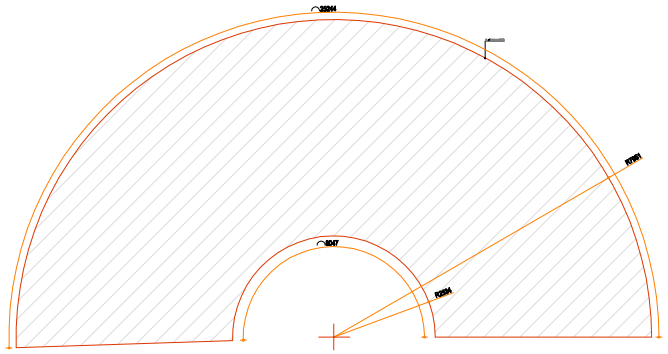

R=1:20
POPREČNI PRESJEK KROZ REZERVOAR
R=1:25
1-1
R=1:25
R=1:25
otvori za ventilaciju kao i za ulazak zaštićenim zidom.
Napomena
Otvori su dimenzije 100x50 mm sa rešetkama od čelika.
Pokrovni ploč (50 kom 500x50 mm betona kao armiranobetonske, dok ostale betonske ploče nisu armirane betonske ploče, ali su nosive betonske ploče nosive, ali su nosiva armatura mogu i kao armiranobetonske)
prepusti ploč betona debljine 1 od vrha ojačavi
makismalna kota vode u periodu eksploatacije
nutrašnjost rezervoara - vode
Detalj A
spoj armiranog zida rezervoara i donjeg zarubljenog konusa (krnja)
R=1:1
Detalj B
spoj gornje ploče rezervoara i zida uzdužnog cilindra
R=1:1
Detalj C
spoj armiranog zida rezervoara i donjeg zarubljenog konusa
R=1:1
Detalj F
horizontalni nadsvjetl vor
R=2:1
Napomena
vor se ugrađe ka unutrašnjost zida, odnosno suprotno napadu od vode.
INK CONSTRUCTOR d.o.o. Banja Luka
Investitor: Opština Domaljevac-Šamac
Projekat: GLAVNI PROJEKAT
Vodotornja "Domaljevac" V=200,0 m3 u opčini Domaljevac
Projektant vodilj: Milan Krtolina, dipl. inž. građ.
M. P.
Projektant: Milan Bobban, dipl. inž. građ.
Razmjera: 1:20
Br projekta 125-04/16
Datum: oktobar 2016
GRAĐ: VIŠEPOSJETNA TOČNA BLAGOPA REZERVOAR (VODNA KOMORA)
Broj:
Nacrt br.: KC-08

ZASTITNI (OBLOZNI) LIMOVI, d-8,8 mm

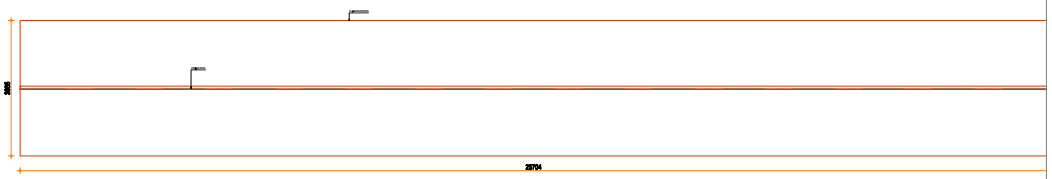
A / GORNJI (KROVNI) ZARUBLJENI KONUS



B / DONJI ZARUBLJENI KONUS

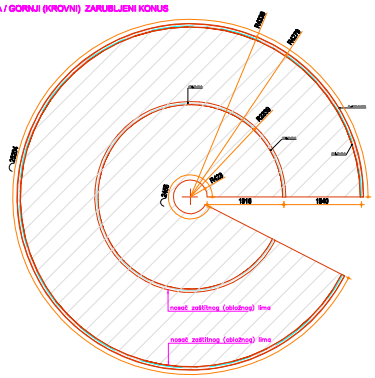


C / SPOLJAŠNJI CILINDAR Ø8000 mm

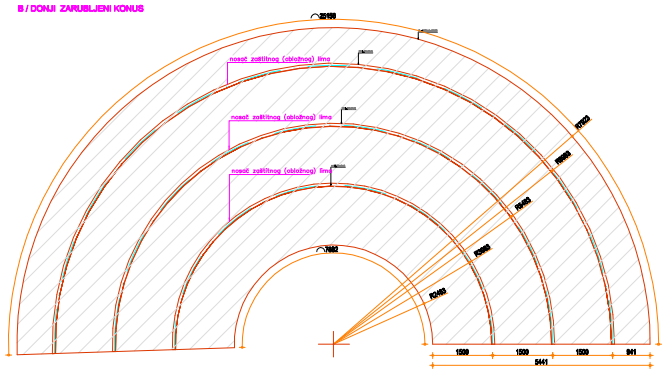


NOSIVI LIM REZERVOARA, d-8 mm

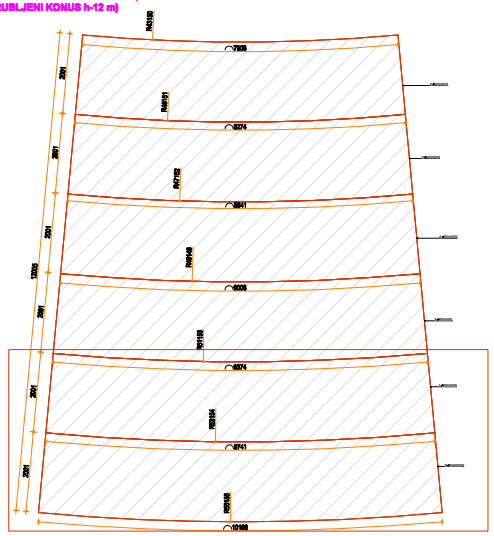
A / GORNJI (KROVNI) ZARUBLJENI KONUS



B / DONJI ZARUBLJENI KONUS



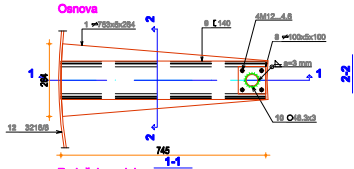
NOSIVI LIM II SEGMENTA STUBA , d-8 mm
(ZARUBLJENI KONUS h-12 m)



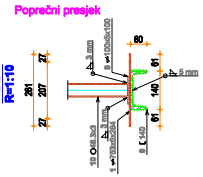
INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Općina Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Bolcban, dipl. inž. građ.	
Razmjera: 1:50	Crtež: DETALJI I RADIONIČKI CRTEŽI KONSTRUKCIJE REZERVOAR (VODNA KOMORA)	br.nacrta 1
Br projekta: 136-04/16		broj crteža KČ-08B
Datum: oktobar 2016		

R=1:10

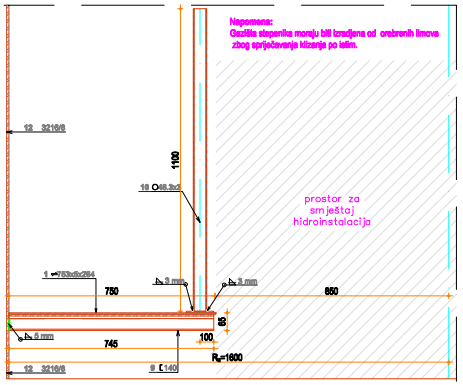
Osnova



Poprečni presjek



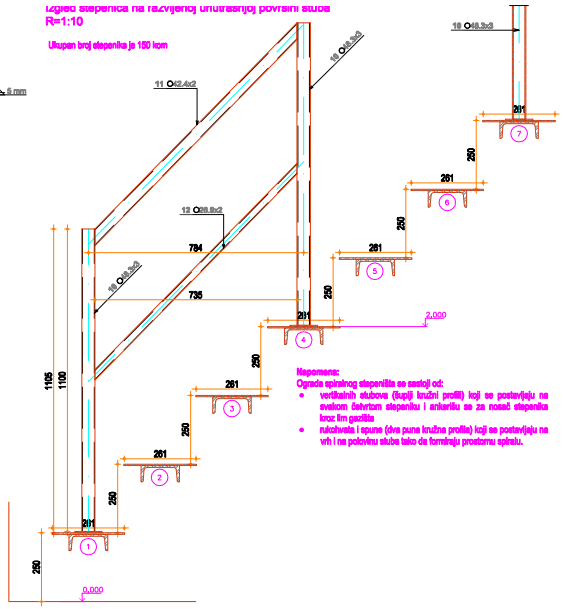
Podužni presjek 1-1 R=1:10



Napomena:
Gazišta stepenika moraju biti izrađena od orebrenih limova zbog sprječavanja klizanja po istim.

Izgled stepenica na razvijenoj unutrašnjoj površini stuba
R=1:10

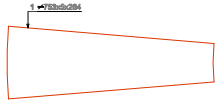
Ukupan broj stepenika je 150 kom



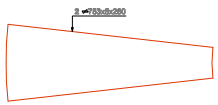
Napomena:
Ograda spiralnog stepeništa se sastoji od:

- vertikalnih stubova (lucji kružni profil) koji se postavljaju na svakom četvrtom stepenišu i ankeritiu se za nosač stepenika kroz lim gazišta
- rukohvata i spune (dva puna kružna profila) koji se postavljaju na vrh i na polovinu stuba tako da formiraju prostornu spiralu.

Izgled gazišta za spiralno stepenište u I segmentu stuba (D=3200mm)

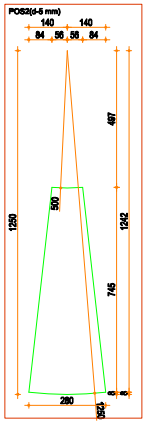


Izgled gazišta za spiralno stepenište u III i IV segmentu stuba (D=2500mm)

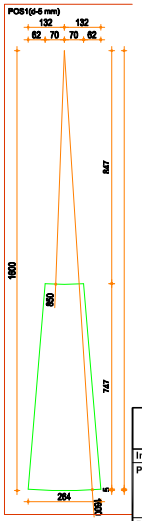


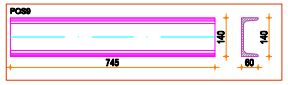
KOLIČINA STEPENIKA PO SEGMENTIMA STUBA		
I SEGMENT	24	ko
II SEGMENT	48	ko
III SEGMENT	48	ko
IV SEGMENT	30	ko
Ukupno:	150	ko

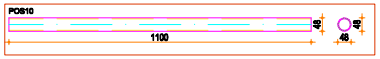
Izgled gazišta za spiralno stepenište u I segmentu stuba (D=3200mm)

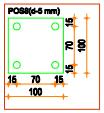


Izgled gazišta za spiralno stepenište u III i IV segmentu stuba (D=2500mm)





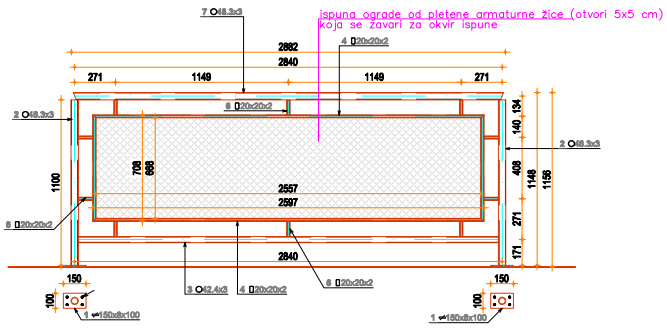


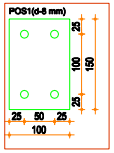


INK CONSTRUCTOR d.o.o. Banja Luka

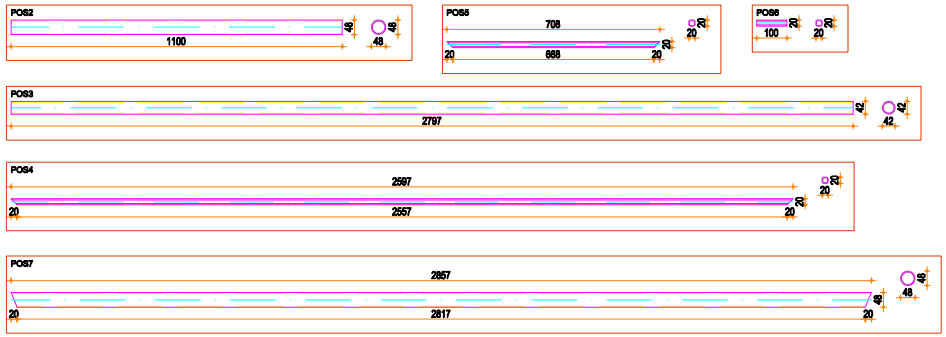
Investitor:	Općina Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotomja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Boloban, dipl. inž. građ.	
Razmjera: 1:20 Br projekta: 126-04/16 Datum: oktobar 2016	Crtež: DISPOZICIJA I DETALJI SKLOPA STEPENIŠTE	Knjiga: 1/ Broj crteža: KČ-09

Izgled jednog segmenta (od ukupno osam)
R=1:20





RADIONIČKI CRTEŽI
R=1:10



Poz.	Tip	Materijal	Kom [kom]	Dužina [mm]	Ukupna dužina [mm]	Masa [kg/m]	Masa jed. [kg]	Ukupna masa [kg]	Ukupna masa [kg]
05 Ograda POS1 (8 kom)									
1	▭150x8x100	Č0561	8	150.00	8.00	100.00	40.00	0.60	4.80	
2	O48.3x3	Č0561	8			1100.00	2.13	2.35	18.79	1
3	O42.4x3	Č0561	8			2791.21	1.89	5.18	41.46	4
4	□20x20x2	Č0561	16			2597.11	0.67	1.74	27.78	3
5	□20x20x2	Č0561	16			707.89	0.67	0.47	7.57	
6	□20x20x2	Č0561	80			67.55	0.67	0.08	5.10	
7	O48.3x3	Č0561	8			2857.35	2.13	6.10	48.80	4
Ukupno									154.38	15

Profili - rekapitulacija

Tip profila	Materijal	Jed.težina [kg/m]	Ukupna težina [kg]	Ukupna težina [kg]
□20x20x2	Č0561	0.67	40.54	4
O48.3x3	Č0561	2.13	67.55	6
O42.4x3	Č0561	1.89	41.46	4
Ukupno			149.55	14

Limovi - rekapitulacija

Debljina [mm]	Materijal	Jed.težina [kg/m2]	Ukupna težina [kg]	Ukupna težina [kg]
8	Č0561	40.00	4.80	
Ukupno			4.80	

Zbirna rekapitulacija

Sklop	Jed.težina [kg]	Ukupna težina neobrađena [kg]	Ukupna težina obrađena [kg]
05 Ograda POS1 (8 kom)	19.30	154.38	153.61
Ukupno		154.38	153.61
Ukupno (+ za spojna sredstva 3%)		159.01	158.22

Rekapitulacija zavrtnjeva po sklopovima

Sklop	Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtk
05 Ograda POS1	M12	4.6	32	30.0	32	0	

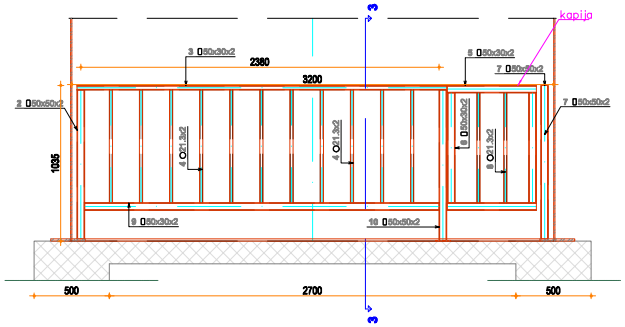
Rekapitulacija zavrtnjeva

Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtka
M12	4.6	32	30.0	32	0	

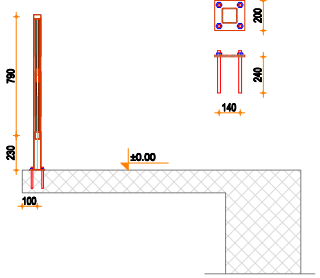
INK CONSTRUCTOR d.o.o. Banja Luka

Investitor:	Općina Domaljevac-Šamac	
Projekat:	**GLAVNI PROJEKAT** Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	**Milan Krtolina, dipl. inž. građ.**	M. P.
Projektant:	**Milan Boloban, dipl. inž. građ.**	
Razmjera: 1:20	Crtež: DISPOZICIJA I DETALJI SKLOPA OGRADA POS1	Knjiga: 1/
Br projekta: 126-04/16		Broj crteža: KČ-10
Datum: oktobar 2016		

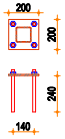
Izgled
R=1:20

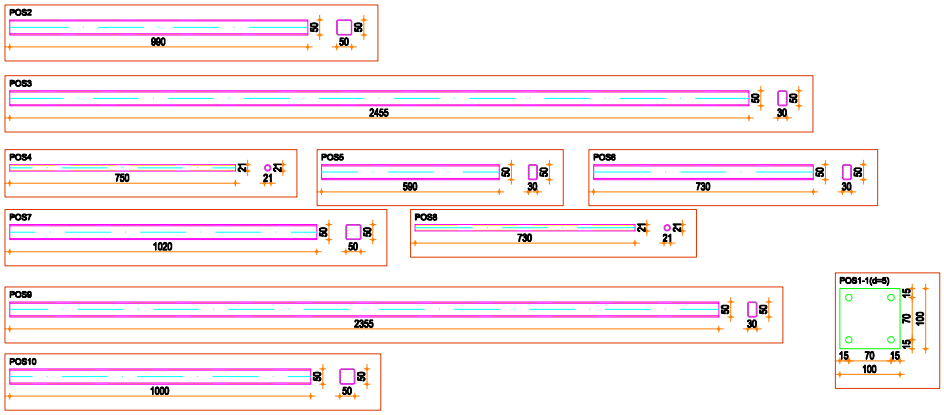


3-3
R=1:20



Anker ploča
R=1:10





POS	Tip	Materijal	n [kom]	Širina [mm]	Debljina [mm]	Dužina [mm]	Jed.težina [kg/m]	Težina po kom. [kg]	Ukupna težina-neobr. [kg]	Ukupna težina- [kg]
09 Ograda POS2 (1 kom)										
1-1	▭100x8x100	Č0561	1	100.00	5.00	100.00	25.00	0.25	0.25	
2	□50x50x2	Č0561	1			990.00	1.87	1.85	1.85	
3	□50x30x2	Č0561	1			2455.00	1.47	3.61	3.61	
4	○21.3x2	Č0561	11			750.00	0.61	0.45	5.00	
5	□50x30x2	Č0561	2			590.00	1.47	0.87	1.73	
6	□50x30x2	Č0561	2			730.00	1.47	1.07	2.14	
7	□50x50x2	Č0561	1			1020.00	1.87	1.91	1.91	
8	○21.3x2	Č0561	2			730.00	0.61	0.44	0.89	
9	□50x30x2	Č0561	1			2355.00	1.47	3.46	3.46	
10	□50x50x2	Č0561	1			1000.00	1.87	1.87	1.87	
Ukupno									22.70	2

Profili - rekapitulacija

Tip profila	Materijal	Jed.težina [kg/m]	Ukupna težina [kg]	Ukupna težina [kg]
□50x50x2	Č0561	1.87	5.62	
□50x30x2	Č0561	1.47	10.94	1
○21.3x2	Č0561	0.61	5.89	
Ukupno			22.45	2

Limovi - rekapitulacija

Debljina [mm]	Materijal	Jed.težina [kg/m2]	Ukupna težina [kg]	Ukupna težina [kg]
5	Č0561	25.00	0.25	
Ukupno			0.25	

Zbirna rekapitulacija

Sklop	Jed.težina [kg]	Ukupna težina neobrađena [kg]	Ukupna težina obrađena [kg]
09 Ograda POS2 (1 kom)	22.70	22.70	22.70
Ukupno		22.70	22.70
Ukupno (+ za spojna sredstva 3%)		23.38	23.38

Rekapitulacija zavrtnjeva po sklopovima

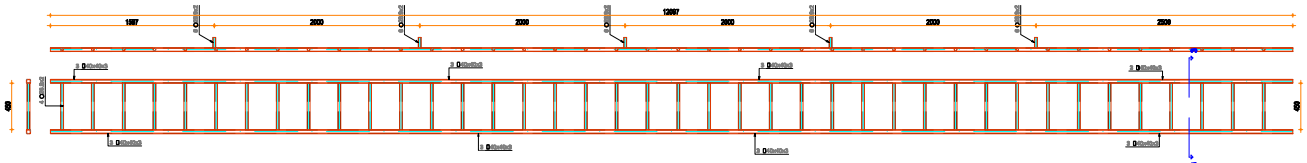
Sklop	Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtk
09 Ograda POS2	M10	4.6	4	140.0	4	0	

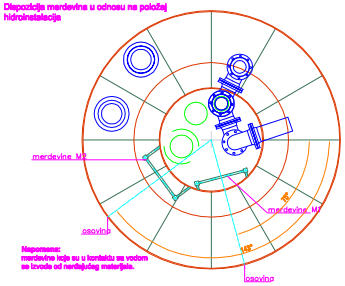
Rekapitulacija zavrtnjeva

Tip zavrtnja	Materijal	Broj komada	Dužina [mm]	Broj navrtki	Broj sig. navrtki	Tip sig. navrtke
M10	4.6	4	140.0	4	0	

INK CONSTRUCTOR d.o.o. Banja Luka

Investitor:	Općina Domaljevac-Šamac
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac
Projektant voditelj:	Milan Krtolina, dipl. inž. građ. — M. P.
Projektant:	Milan Boloban, dipl. inž. građ.
Razmjera: 1:20	Crtež: DISPOZICIJA I DETALJI SKLOPA OGRADA POS2
Br projekta: 126-04/16	Knjiga: 1/
Datum: oktobar 2016	Broj crteža: KČ-11





PCS	Tip	Materijal	n [kom]	Širina [mm]	Dužina [mm]	Težina [kg]	Jed.kg/kom [kg/kg]	Težina po kom. [kg]	Ukupna tež. [kg]
Gl-Merdevine (penjalice) (1 kom)									
1	D40x40x3	INOX	2			6000.00	3.37	37.04	
2	C25.5x3	INOX	36			450.00	1.35	8.69	
3	D40x40x3	ČS351	7			12997.00	2.10	26.43	
4	C25.5x3	ČS351	42			450.00	0.75	5.50	
5	C25.5x3	INOX	10			100.00	1.35	0.13	
6	C25.5x3	ČS351	10			100.00	0.75	0.05	
Ukupno									

Profil - okapaonica

Tip profila	Materijal	Jed.kg/km [kg/m]	Ukupna težina [kg]
D40x40x3	INOX	3.37	
C25.5x3	INOX	1.35	
D40x40x3	ČS351	2.10	
C25.5x3	ČS351	0.75	
Ukupno			

Zbirna okapaonica

Stavka	Jed.kg/kom [kg]	Ukupna težina [kg]
Gl-Merdevine (penjalice) (1 kom)	120.00	120.00
Ukupno		120.00
Ukupno (+ za spojna sredstva 20%)		142.04

INK CONSTRUCTOR d.o.o. Banja Luka		
Investitor:	Općina Domaljevac-Šamac	
Projekat:	GLAVNI PROJEKAT Vodotornja "Domaljevac" V=200,0 m3 u općini Domaljevac	
Projektant voditelj:	Milan Krtolina, dipl. inž. građ.	M. P.
Projektant:	Milan Boloban, dipl. inž. građ.	
Razmjera: 1:20	Crtež: DISPOZICIJA I DETALJI SKLOPA MERDEVINE (PENJALICE)	Crtež br.: 1
Br projekta: 126-04/16		Revizija br.: KČ-12
Datum: oktobar 2016		