INVESTITOR:
VELEUČILIŠTE U KARLOVCU,
Trg J.J.Strossmayera 9, Karlovac
OIB:62820859976

GRAĐEVINA:
REKONSTRUKCIJA, UREĐENJE I PRENAMJENA POSTOJEĆE ZGRADE „VOJNE BOLNICE“ U STUDENSKI DOM
Vjekoslava Karasa 9, Karlovac

LOKACIJA GRAĐEVINE
kč.br. 992/4, k.o. Karlovac II

FAZA I VRSTA PROJEKTA:
IZVEDBENI PROJEKT ARMATURE

OZNAKA PROJEKTA : P-181/26
DATUM IZRADE: Lipanj, 2026

ZAJEDNIČKA OZNAKA PROJEKTA: ZOP-VB/2019

DIREKTOR :
MARKO ČRNE mag.ing.aedif.

·DIMNJAČAR· d.o.o.
KARLOVAC
ul. V. Mačeka 5

GLAVNI PROJEKTANT:
PETRA JURČEVIĆ, dipl.ing.arh., A3484

PROJEKTANT: MARKO ČRNE, mag.ing.aedif., br.ovlaštenja G5170

HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA
Marko Črne
mag. ing. aedif.
Ovlašteni inženjer građevinarstva
G 5170

2. SADRŽAJ

OPĆI DIO

- NASLOVNICA str. 1
-2. SADRŽAJ str. 2

TEHNIČKI DIO

-3. ISKAZ ARMATURE str. 3
-4. NACRTI str. 3

1.STROPNA PLOČA PRIZEMLJA DONJA ZONA
2.STROPNA PLOČA PRIZEMLJA GORNJA ZONA
3.STROPNA PLOČA 1.KATA DONJA ZONA
4.STROPNA PLOČA 2.KATA GORNJA ZONA
5.STROPNE GREDE 1.KATA
6.STROPNA PLOČA 2.KATA – DONJA ZONA
7.STROPNA PLOČA 2.KATA – GORNJA ZONA
8.STROPNE GREDE 2.KATA
9.HOR.SERKLAŽI 2.KATA
10.VERTIKALNI SERKLAŽI I I GREDE POTKROVLJA
11.STUBIŠTE SJEVERNO PR-1K – 2K – PH
12.STUBIŠTE JUŽNO

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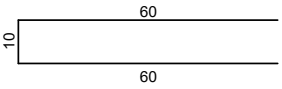
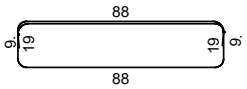
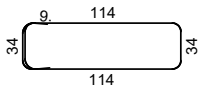
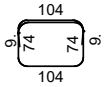
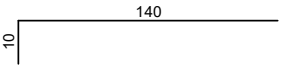
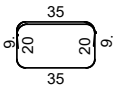
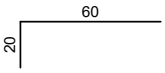
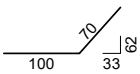
3. ISKAZ ARMATURE

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STROPNA PLOČA PRIZEMLJA - BOLNICA (1 kom)							
1		8	1.30	280	364.00	148.88	
2	600	12	6.00	28	168.00	154.56	
3	150	12	1.50	4	6.00	5.52	
4	550	12	5.50	4	22.00	20.24	
5	280	12	2.80	4	11.20	10.30	
6	220	12	2.20	4	8.80	8.10	
7	3D geometrija	8	0.89	27	24.03	9.83	
8		8	3.20	11	35.20	14.40	
9	230	12	2.30	26	59.80	55.02	
10		8	3.48	6	20.88	8.54	
11	110	12	1.10	6	6.60	6.07	
12	110	8	1.10	8	8.80	3.60	
13		8	4.78	40	191.20	78.20	
14	600	8	6.00	4	24.00	9.82	
15		8	1.50	106	159.00	65.03	
16	210	8	2.10	4	8.40	3.44	
17	100	8	1.00	39	39.00	15.95	
18		8	1.63	39	63.57	26.00	
19	270	12	2.70	6	16.20	14.90	
20		8	0.80	108	86.40	35.34	
21		12	1.70	16	27.20	25.02	
22	600	14	6.00	8	48.00	60.10	

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Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
23	170 / 30	14	2.00	16	32.00	40.06	
STROPNA PLOČA 1. KATA - BOLNICA (1 kom)							
1	60 / 7 / 60	8	1.27	1735	2203.45	901.21	
2	600	20	6.00	110	660.00	1633.50	
3	280	20	2.80	2	5.60	13.86	
4	90	12	0.90	26	23.40	21.53	
5	140	12	1.40	30	42.00	38.64	
6	520	20	5.20	4	20.80	51.48	
7	340	20	3.40	2	6.80	16.83	
8	160	20	1.60	16	25.60	63.36	
9	560	20	5.60	4	22.40	55.44	
10	500	12	5.00	6	30.00	27.60	
11	240	20	2.40	4	9.60	23.76	
12	470	20	4.70	8	37.60	93.06	
13	330	12	3.30	12	39.60	36.43	
14	200	12	2.00	12	24.00	22.08	
15	130	8	1.30	1602	2082.60	851.78	
16	600	12	6.00	98	588.00	540.96	
17	240	12	2.40	2	4.80	4.42	
18	340	12	3.40	6	20.40	18.77	
19	520	10	5.20	4	20.80	13.50	
20	560	12	5.60	4	22.40	20.61	
21	160	12	1.60	16	25.60	23.55	
22	470	12	4.70	4	18.80	17.30	
23	150	20	1.50	4	6.00	14.85	
24	490	12	4.90	4	19.60	18.03	
25	480	20	4.80	2	9.60	23.76	
26	440	12	4.40	2	8.80	8.10	
27	400	20	4.00	8	32.00	79.20	
28	280	12	2.80	6	16.80	15.46	
29	540	20	5.40	2	10.80	26.73	
30	360	12	3.60	6	21.60	19.87	
31	320	20	3.20	4	12.80	31.68	
32	380	20	3.80	4	15.20	37.62	
33	260	20	2.60	10	26.00	64.35	

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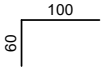
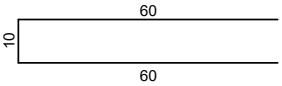
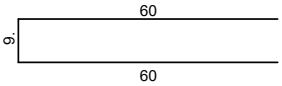
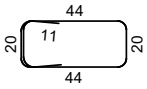
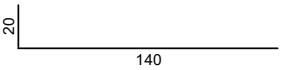
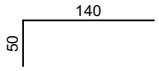
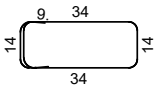
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
34	220	12	2.20	10	22.00	20.24	
35	80	12	0.80	4	3.20	2.94	
36	180	12	1.80	2	3.60	3.31	
37	430	12	4.30	4	17.20	15.82	
38	3D geometrija	8	0.85	266	226.10	92.47	
39		16	1.60	16	25.60	41.50	
40		8	1.30	345	448.50	183.44	
41		8	1.29	644	830.76	339.78	
42	3D geometrija	8	0.91	53	48.23	19.73	
43	3D geometrija	8	0.89	69	61.41	25.12	
STROPNE GREDE 1.KATA - BOLNICA (1 kom)							
1		10	1.70	1418	2410.60	1564.48	
2		22	1.60	208	332.80	1017.70	
3	800	22	8.00	156	1248.00	3816.38	
4	600	10	6.00	104	624.00	404.98	
5	250	10	2.50	76	190.00	123.31	
6		22	1.90	76	144.40	441.58	
7	275	10	2.75	28	77.00	49.97	
8		8	1.28	283	362.24	148.16	
9	600	16	6.00	36	216.00	350.14	
10	600	8	6.00	16	96.00	39.26	
11	480	8	4.80	2	9.60	3.93	
12	390	16	3.90	4	15.60	25.29	

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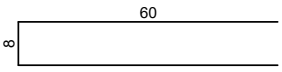
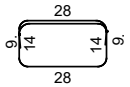
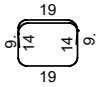
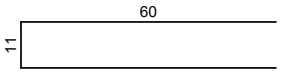
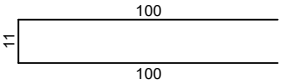
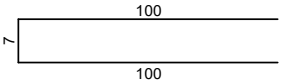
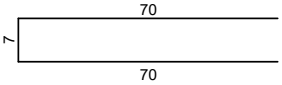
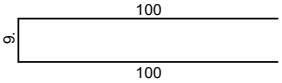
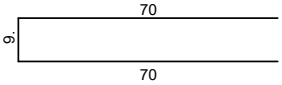
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
13	270	8	2.70	2	5.40	2.21	
14	370	16	3.70	4	14.80	23.99	
15	330	8	3.30	2	6.60	2.70	
16	600	12	6.00	8	48.00	44.16	
17		8	1.28	92	117.76	48.16	
18	100	8	1.00	78	78.00	31.90	
19		8	1.30	40	52.00	21.27	
20	250	12	2.50	4	10.00	9.20	
21	540	16	5.40	16	86.40	140.05	
22		8	1.13	120	135.60	55.46	
23		8	1.03	39	40.17	16.43	
24	260	12	2.60	4	10.40	9.57	
25	600	14	6.00	16	96.00	120.19	
STROPNA PLOČA 2.KATA - BOLNICA (1 kom)							
1		8	1.31	128	167.68	68.58	
2	 3D geometrija	8	0.93	48	44.64	18.26	
3		8	2.11	141	297.51	121.68	
4		8	2.07	669	1384.83	566.40	
5		8	1.47	221	324.87	132.87	
6		8	2.09	865	1807.85	739.41	
7		8	1.49	42	62.58	25.60	

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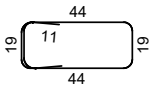
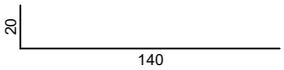
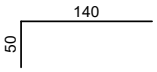
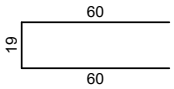
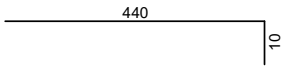
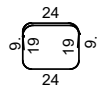
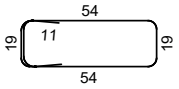
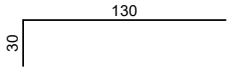
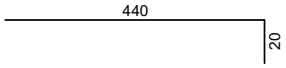
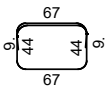
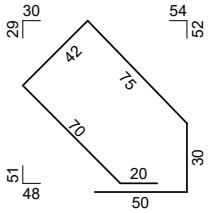
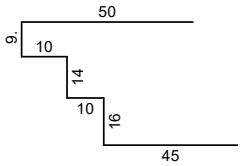
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
8	3D geometrija	8	0.85	315	267.75	109.51	
9	3D geometrija	8	0.89	97	86.33	35.31	
10	130	8	1.30	2039	2650.70	1084.14	
STROPNE GREDE 2.KATA - BOLNICA (1 kom)							
1		10	1.67	1561	2606.87	1691.86	
2		22	1.60	226	361.60	1105.77	
3	838	22	8.38	73	611.74	1870.70	
4	600	10	6.00	112	672.00	436.13	
5	290	10	2.90	48	139.20	90.34	
6		22	1.90	112	212.80	650.74	
7		8	1.38	598	825.24	337.52	
8	600	16	6.00	64	384.00	622.46	
9		8	1.39	166	230.74	94.37	
10	600	12	6.00	16	96.00	88.32	
11	310	10	3.10	40	124.00	80.48	
12	850	22	8.50	60	510.00	1559.58	
13	870	22	8.70	36	313.20	957.77	
14	320	10	3.20	24	76.80	49.84	
15	530	16	5.30	8	42.40	68.73	
16		8	1.13	140	158.20	64.70	
17		8	1.03	149	153.47	62.77	
18	290	12	2.90	12	34.80	32.02	
19		16	4.50	24	108.00	175.07	
20	330	16	3.30	8	26.40	42.79	

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
21	390	16	3.90	8	31.20	50.58	
22	140	16	1.40	8	11.20	18.16	
23	380	16	3.80	8	30.40	49.28	
24	160	16	1.60	16	25.60	41.50	
25	540	16	5.40	8	43.20	70.03	
26		8	1.28	78	99.84	40.83	
27		10	1.87	57	106.59	69.18	
28	500	12	5.00	4	20.00	18.40	
29		16	1.60	160	256.00	414.98	
30		14	4.60	16	73.60	92.15	
31	200	12	2.00	4	8.00	7.36	
HORIZONTALNI SERKLAŽI 2.KATA - BOLNICA (1 kom)							
1		8	3.07	83	254.81	104.22	
2		8	2.87	636	1825.32	746.56	
3		8	1.54	635	977.90	399.96	
4		8	2.74	184	504.16	206.20	
5		8	2.47	173	427.31	174.77	
6		8	2.62	138	361.56	147.88	

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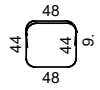
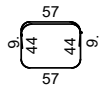
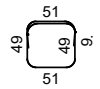
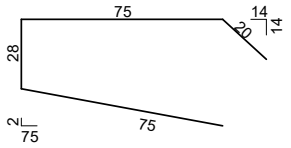
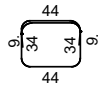
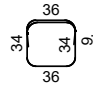
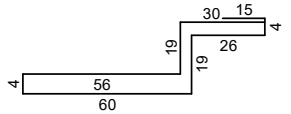
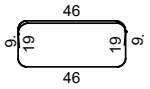
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
7		8	2.50	12	30.00	12.27	
8		8	2.77	53	146.81	60.05	
9		8	2.69	226	607.94	248.65	
10		8	1.98	226	447.48	183.02	
11		8	2.18	29	63.22	25.86	
12		8	1.94	34	65.96	26.98	
13		8	2.33	62	144.46	59.08	
14		8	1.94	78	151.32	61.89	
15	600	12	6.00	310	1860.00	1711.20	
16	600	8	6.00	173	1038.00	424.54	
17	100	12	1.00	16	16.00	14.72	
18	520	8	5.20	7	36.40	14.89	
19	560	12	5.60	16	89.60	82.43	
20	540	8	5.40	14	75.60	30.92	
21	260	12	2.60	8	20.80	19.14	
22	160	8	1.60	7	11.20	4.58	
23	430	12	4.30	8	34.40	31.65	
24	410	8	4.10	7	28.70	11.74	
25	200	12	2.00	6	12.00	11.04	
26	180	8	1.80	6	10.80	4.42	
27	280	12	2.80	20	56.00	51.52	
28	195	8	1.95	7	13.65	5.58	
29	270	12	2.70	16	43.20	39.74	
30	210	8	2.10	8	16.80	6.87	

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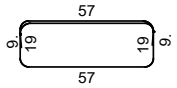
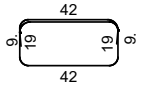
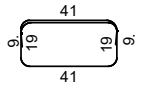
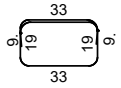
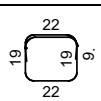
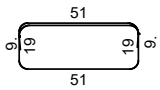
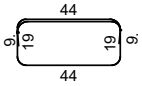
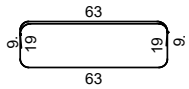
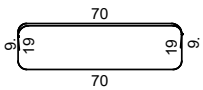
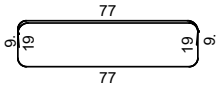
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
31	360	12	3.60	16	57.60	52.99	
32	340	8	3.40	4	13.60	5.56	
33		8	2.27	42	95.34	38.99	
34	330	12	3.30	20	66.00	60.72	
35		8	1.82	57	103.74	42.43	
36	300	12	3.00	8	24.00	22.08	
37		8	1.79	16	28.64	11.71	
38		8	1.10	36	39.60	16.20	
39	400	12	4.00	12	48.00	44.16	
40		8	1.55	76	117.80	48.18	
41	500	12	5.00	6	30.00	27.60	
42		8	1.22	18	21.96	8.98	
43		8	2.09	43	89.87	36.76	
44		8	1.88	62	116.56	47.67	
45		8	2.45	19	46.55	19.04	
46	360	8	3.60	2	7.20	2.94	
47		8	2.66	14	37.24	15.23	
48	310	12	3.10	10	31.00	28.52	
49		8	1.34	39	52.26	21.37	
50		8	2.87	10	28.70	11.74	
51	380	12	3.80	8	30.40	27.97	

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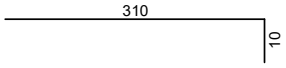
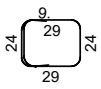
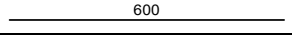
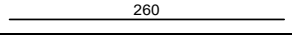
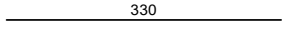
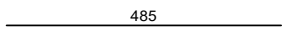
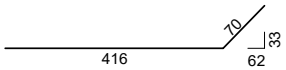
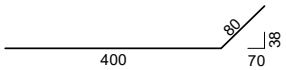
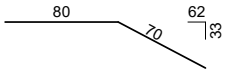
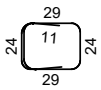
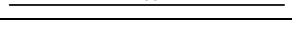
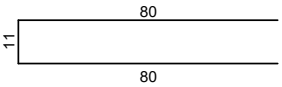
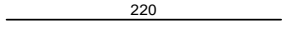
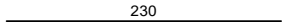
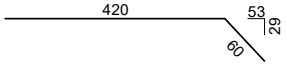
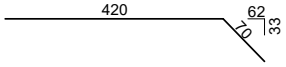
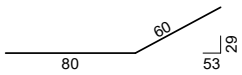
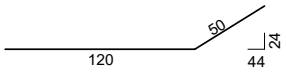
BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
VERTIKALNI SERKLAŽI, GREDE POTKROVLJA - BOLNICA (1 kom)							
1		16	3.20	160	512.00	829.95	
2		8	1.38	640	883.20	361.23	
3		8	1.28	160	204.80	83.76	
4		8	1.48	1016	1503.68	615.01	
5		16	6.00	96	576.00	933.70	
6		16	2.60	16	41.60	67.43	
7		16	3.30	8	26.40	42.79	
8		16	4.85	60	291.00	471.71	
STUBIŠTE SJEVERNO PR-1K- BOLNICA (1 kom)							
1		12	4.86	8	38.88	35.77	
2		12	4.80	8	38.40	35.33	
3		12	1.50	8	12.00	11.04	
5		10	1.52	34	51.68	33.54	
6		14	2.80	12	33.60	42.07	
7		10	1.71	45	76.95	49.94	
8		12	2.20	32	70.40	64.77	
9		12	2.30	32	73.60	67.71	
10		12	4.80	8	38.40	35.33	
11		12	4.90	8	39.20	36.06	
12		12	1.40	8	11.20	10.30	
13		12	1.70	8	13.60	12.51	

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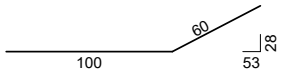
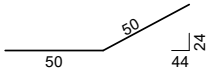
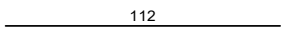
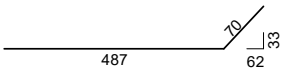
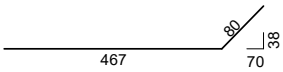
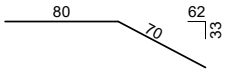
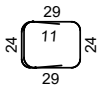
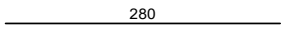
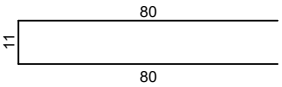
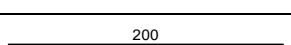
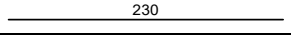
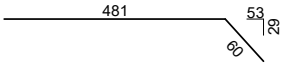
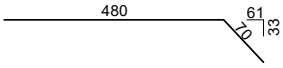
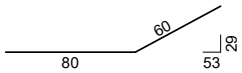
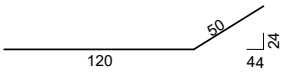
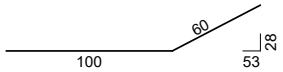
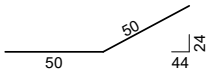
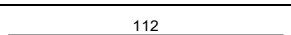
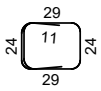
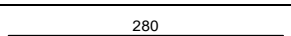
BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
14		12	1.60	8	12.80	11.78	
15		12	1.00	8	8.00	7.36	
16		10	1.12	78	87.36	56.70	
STUBIŠTE SJEVERNO 1K-2K - PK BOLNICA (1 kom)							
1		12	5.57	16	89.12	81.99	
2		12	5.47	16	87.52	80.52	
3		12	1.50	16	24.00	22.08	
4		10	1.52	68	103.36	67.08	
5		14	2.80	24	67.20	84.13	
6		10	1.71	90	153.90	99.88	
7		12	2.00	64	128.00	117.76	
8		12	2.30	64	147.20	135.42	
9		12	5.41	16	86.56	79.64	
10		12	5.50	16	88.00	80.96	
11		12	1.40	16	22.40	20.61	
12		12	1.70	16	27.20	25.02	
13		12	1.60	16	25.60	23.55	
14		12	1.00	16	16.00	14.72	
15		10	1.12	156	174.72	113.39	
STUBIŠTE JUŽNO 2K-PK - BOLNICA (1 kom)							
1		10	1.52	17	25.84	16.77	
2		14	2.80	16	44.80	56.09	

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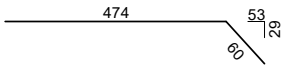
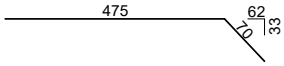
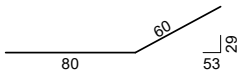
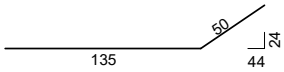
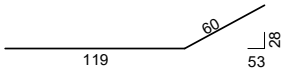
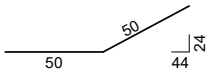
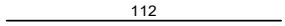
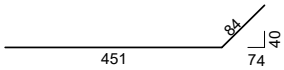
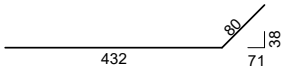
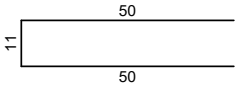
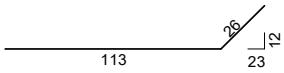
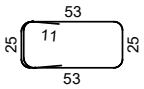
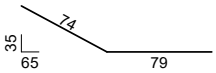
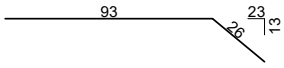
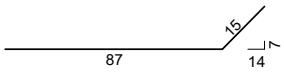
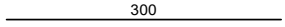
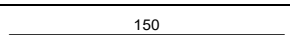
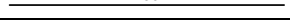
MOB: 091/614-8451

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
3		12	5.34	8	42.72	39.30	
4		12	5.45	8	43.60	40.11	
5		12	1.40	8	11.20	10.30	
6		12	1.85	8	14.80	13.62	
7		12	1.79	8	14.32	13.17	
8		12	1.00	8	8.00	7.36	
9		10	1.12	78	87.36	56.70	
10		12	5.35	8	42.80	39.38	
11		12	5.12	8	40.96	37.68	
12		10	1.11	58	64.38	41.78	
13		12	1.39	8	11.12	10.23	
14		10	2.03	17	34.51	22.40	
15		12	1.53	8	12.24	11.26	
16		12	1.19	8	9.52	8.76	
17		12	1.02	8	8.16	7.51	
18		12	3.00	6	18.00	16.56	
19		12	1.50	8	12.00	11.04	
20		10	3.00	14	42.00	27.26	

Šipke - rekapitulacija oplate (STROPNA PLOČA PRIZEMLJA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	1024.48	0.41	419.01
12	325.80	0.92	299.74

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
14			80.00		1.25	100.16	
Ukupno						818.91	

Šipke - rekapitulacija oplate (STROPNA PLOČA 1. KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	5901.05	0.41	2413.53
10	20.80	0.65	13.50
12	951.80	0.92	875.66
16	25.60	1.62	41.50
20	900.80	2.48	2229.48
Ukupno			5573.66

Šipke - rekapitulacija oplate (STROPNE GREDE 1.KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	903.37	0.41	369.48
10	3301.60	0.65	2142.74
12	68.40	0.92	62.93
14	96.00	1.25	120.19
16	332.80	1.62	539.47
22	1725.20	3.06	5275.66
Ukupno			8510.47

Šipke - rekapitulacija oplate (STROPNA PLOČA 2.KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	7094.74	0.41	2901.75
Ukupno			2901.75

Šipke - rekapitulacija oplate (STROPNE GREDE 2.KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	1467.49	0.41	600.20
10	3725.46	0.65	2417.82
12	158.80	0.92	146.10
14	73.60	1.25	92.15
16	958.40	1.62	1553.57

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
22			2009.34		3.06	6144.56	
Ukupno							10954.40

Šipke - rekapitulacija oplate (HORIZONTALNI SERKLAŽI 2.KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	8038.46	0.41	3287.73
12	2419.00	0.92	2225.48
Ukupno			5513.21

Šipke - rekapitulacija oplate (VERTIKALNI SERKLAŽI, GREDE POTKROVLJA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	2591.68	0.41	1060.00
16	1447.00	1.62	2345.59
Ukupno			3405.58

Šipke - rekapitulacija oplate (STUBIŠTE SJEVERNO PR-1K- BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	215.99	0.65	140.18
12	356.48	0.92	327.96
14	33.60	1.25	42.07
Ukupno			510.21

Šipke - rekapitulacija oplate (STUBIŠTE SJEVERNO 1K-2K - PK BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	431.98	0.65	280.36
12	741.60	0.92	682.27
14	67.20	1.25	84.13
Ukupno			1046.76

Šipke - rekapitulacija oplate (STUBIŠTE JUŽNO 2K-PK - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	254.09	0.65	164.90
12	289.44	0.92	266.28

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
14			44.80		1.25	56.09	
Ukupno						487.28	

Šipke - rekapitulacija

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	27021.27	0.41	11051.70
10	7949.92	0.65	5159.50
12	5311.32	0.92	4886.41
14	395.20	1.25	494.79
16	2763.80	1.62	4480.12
20	900.80	2.48	2229.48
22	3734.54	3.06	11420.22
Ukupno (S400)			39722.23
Ukupno			39722.23

Mreže - specifikacija

Pozicija	Oznaka mreže	B [cm]	L [cm]	n	Jedinična težina [kg/m2]	Ukupna težina [kg]	Napomena
STROPNA PLOČA PRIZEMLJA - BOLNICA (1 kom)							
I-1	Q-335	212	555	2	5.26	123.78	
I-2	Q-335	215	555	4	5.26	251.06	
I-3	Q-335	181	555	2	5.26	105.68	
I-4	Q-335	212	289	2	5.26	64.45	
I-5	Q-335	215	289	6	5.26	196.10	
I-6	Q-335	85	289	2	5.26	25.84	
II-1	Q-424	212	463	2	6.66	130.74	
II-2	Q-424	215	463	6	6.66	397.78	
II-3	Q-424	95	463	2	6.66	58.59	
Ukupno						1354.02	
STROPNA PLOČA 1. KATA - BOLNICA (1 kom)							
I	Q-283	215	605	55	4.44	3176.43	
I-1	Q-283	215	519	8	4.44	396.35	
I-2	Q-283	202	519	2	4.44	93.10	
I-3	Q-283	215	342	4	4.44	130.59	
I-4	Q-283	134	342	2	4.44	40.70	
I-5	Q-283	215	180	24	4.44	412.39	
I-6	Q-283	215	605	11	4.44	635.29	

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
I-7	Q-283	87	605	2	4.44	46.63	
I-8	Q-283	87	180	2	4.44	13.87	
I-9	Q-283	172	605	2	4.44	92.41	
I-10	Q-283	172	421	2	4.44	64.30	
I-11	Q-283	215	562	6	4.44	321.89	
I-12	Q-283	184	562	2	4.44	91.83	
I-13	Q-283	160	605	8	4.44	343.83	
I-14	Q-283	160	425	2	4.44	60.38	
I-15	Q-283	175	57	2	4.44	8.82	
I-16	Q-283	175	605	6	4.44	282.05	
I-17	Q-283	175	134	2	4.44	20.86	
I-18	Q-283	215	192	6	4.44	110.24	
I-19	Q-283	65	192	2	4.44	11.15	
I-20	Q-283	65	605	2	4.44	35.06	
I-21	Q-283	215	231	8	4.44	176.41	
I-22	Q-283	82	605	6	4.44	132.16	
I-23	Q-283	82	231	2	4.44	16.82	
I-24	Q-283	215	209	8	4.44	159.61	
I-25	Q-283	207	605	2	4.44	111.21	
I-26	Q-283	207	209	2	4.44	38.42	
I-27	Q-283	205	605	2	4.44	110.13	
I-28	Q-283	205	236	2	4.44	42.96	
I-29	Q-283	96	236	2	4.44	20.12	
I-30	Q-283	96	605	4	4.44	103.15	
I-31	Q-283	215	151	1	4.44	14.41	
I-32	Q-283	75	151	1	4.44	5.03	
I-33	Q-283	215	162	2	4.44	30.93	
I-34	Q-283	106	162	2	4.44	15.25	
Ukupno						7364.78	
STROPNE GREDE 1.KATA - BOLNICA (1 kom)							
I-1	Q-424	212	463	4	6.66	261.49	
I-2	Q-424	215	463	12	6.66	795.56	
I-3	Q-424	95	463	4	6.66	117.18	
Ukupno						1174.23	
STROPNA PLOČA 2.KATA - BOLNICA (1 kom)							
I	Q-283	215	605	56	4.44	3234.18	
I-1	Q-283	215	562	3	4.44	160.95	

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
I-2	Q-283	184	562	1	4.44	45.91	
I-3	Q-283	215	519	9	4.44	445.89	
I-4	Q-283	202	519	1	4.44	46.55	
I-5	Q-283	215	47	1	4.44	4.49	
I-6	Q-283	215	570	1	4.44	54.41	
I-7	Q-283	215	572	1	4.44	54.60	
I-8	Q-283	215	572	1	4.44	54.60	
I-9	Q-283	184	572	1	4.44	46.72	
I-10	Q-283	51	436	1	4.44	9.95	
I-11	Q-283	212	605	4	4.44	227.79	
I-12	Q-283	212	255	2	4.44	48.01	
I-13	Q-283	215	255	20	4.44	486.85	
I-14	Q-283	215	605	6	4.44	346.52	
I-15	Q-283	155	252	2	4.44	34.64	
I-16	Q-283	212	252	2	4.44	47.44	
I-17	Q-283	215	252	2	4.44	48.11	
I-18	Q-283	123	605	2	4.44	65.81	
I-19	Q-283	123	252	2	4.44	27.41	
I-20	Q-283	181	605	2	4.44	97.41	
I-21	Q-283	181	477	2	4.44	76.80	
I-22	Q-283	215	227	32	4.44	693.42	
I-23	Q-283	131	227	2	4.44	26.41	
I-24	Q-283	203	605	6	4.44	327.18	
I-25	Q-283	203	199	2	4.44	35.87	
I-26	Q-283	170	224	2	4.44	33.89	
I-27	Q-283	215	224	22	4.44	471.42	
I-28	Q-283	66	224	2	4.44	13.10	
I-29	Q-283	215	198	8	4.44	151.21	
I-30	Q-283	90	605	6	4.44	145.05	
I-31	Q-283	90	198	2	4.44	15.82	
I-32	Q-283	201	605	2	4.44	108.12	
I-33	Q-283	215	235	6	4.44	134.60	
I-34	Q-283	121	235	2	4.44	25.25	
I-35	Q-283	121	605	2	4.44	65.01	
I-36	Q-283	215	254	10	4.44	242.47	
I-37	Q-283	194	605	2	4.44	104.22	
I-38	Q-283	138	148	2	4.44	18.14	

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
Ukupno						8276.23	
STROPNE GREDE 2.KATA - BOLNICA (1 kom)							
I-1	Q-424	212	444	4	6.66	250.76	
I-2	Q-424	215	444	12	6.66	762.92	
I-3	Q-424	95	444	4	6.66	112.37	
Ukupno						1126.04	

Mreže - rekapitulacija

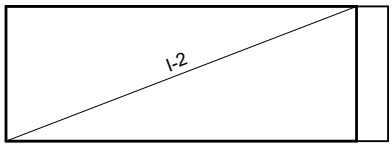
Oznaka mreže	B [cm]	L [cm]	n	Jedinična težina [kg/m2]	Ukupna težina [kg]	Neto ugrađena težina [kg]
Q-283	215	605	297	4.44	17141.42	15421.32
Q-335	215	605	13	5.26	889.45	766.91
Q-424	215	605	45	6.66	3898.35	2887.38
Ukupno					21929.23	19075.61

Mreže - plan rezanja

STROPNA PLOČA PRIZEMLJA - BOLNICA

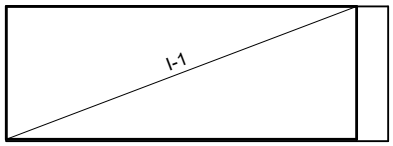
Q-335 (605 cm x 215 cm)

4x



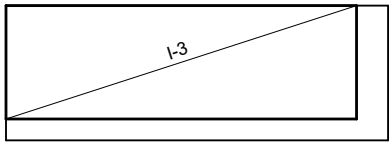
I-2 555 x 215

2x



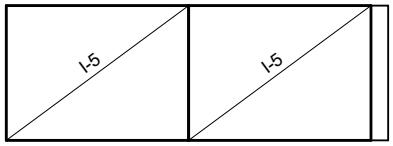
I-1 555 x 212

2x



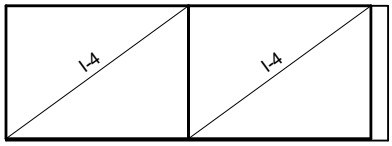
I-3 555 x 181

3x



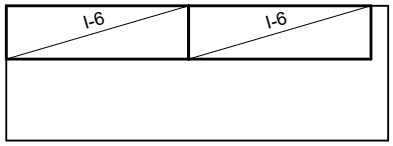
I-5 289 x 215
I-5 289 x 215

1x



I-4 289 x 212
I-4 289 x 212

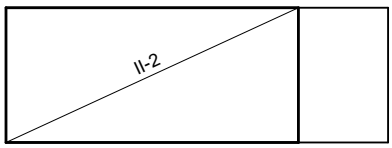
1x



I-6 289 x 85
I-6 289 x 85

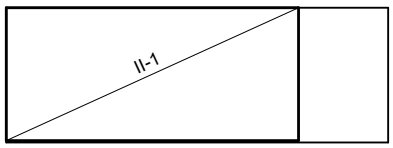
Q-424 (605 cm x 215 cm)

6x



II-2 463 x 215

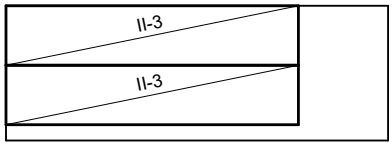
2x



II-1 463 x 212

Šipke - specifikacija							
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

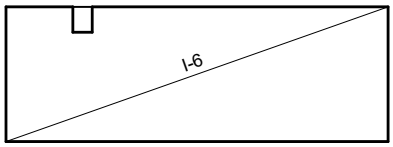
1x



II-3 463 x 95
II-3 463 x 95

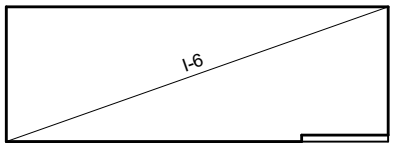
STROPNA PLOČA 1. KATA - BOLNICA
Q-283 (605 cm x 215 cm)

2x



I-6 605 x 215

2x



I-6 605 x 215

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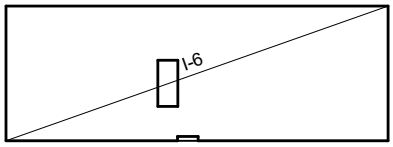
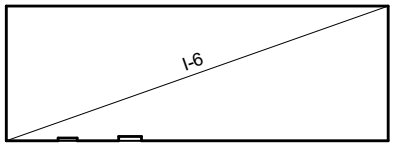


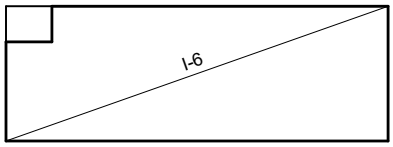
I-6 605 x 215

2x



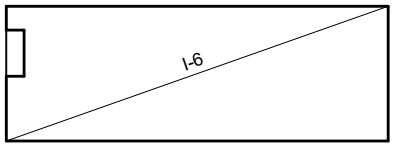
I-6 605 x 215

1x



I-6 605 x 215

2x



I-6 605 x 215

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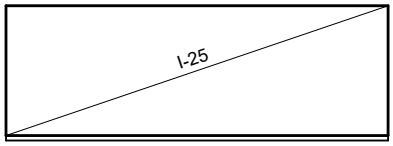

I-25 605 x 207

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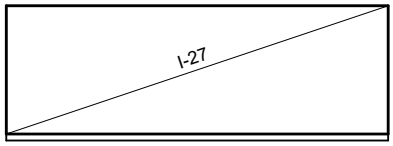
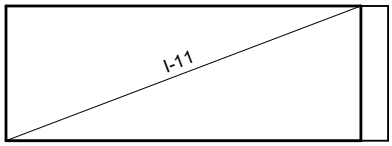


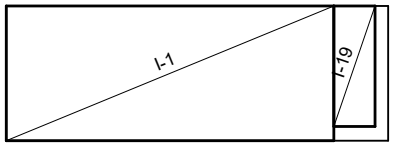
I-27 605 x 205

6x



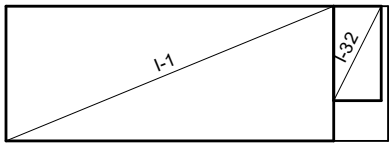
I-11 562 x 215

2x



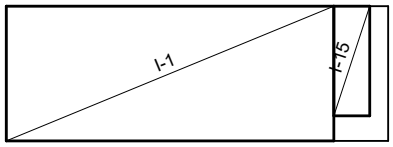
I-1 519 x 215
I-19 192 x 65

1x



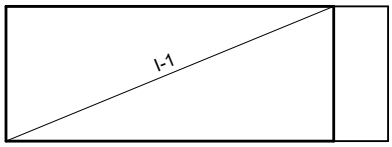
I-1 519 x 215
I-32 151 x 75

2x



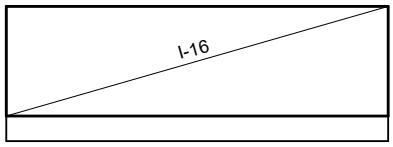
I-1 519 x 215
I-15 57 x 175

3x



I-1 519 x 215

6x



I-16 605 x 175

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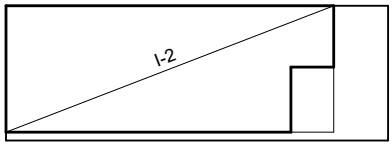
TEL: 047/ 614-845
MOB: 091/614-8451

BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

2x



I-2 519 x 202

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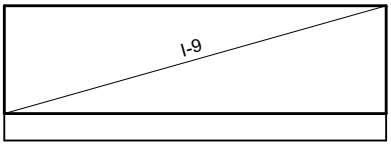

I-9 605 x 172

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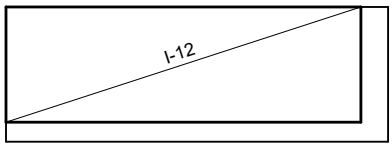
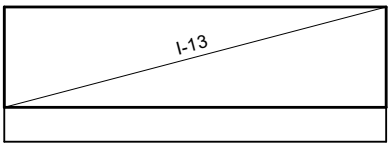


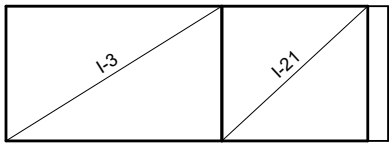
I-12 562 x 184

8x



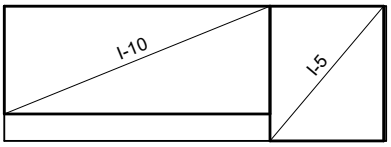
I-13 605 x 160

4x



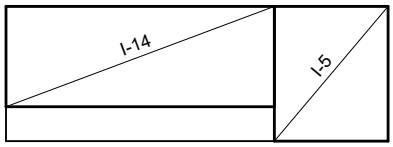
I-3 342 x 215
I-21 231 x 215

2x



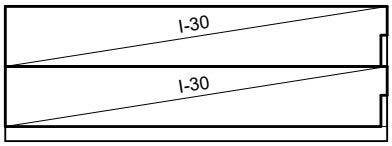
I-10 421 x 172
I-5 180 x 215

2x



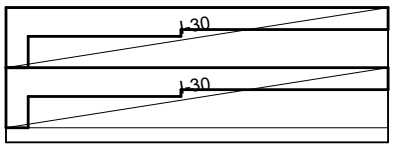
I-14 425 x 160
I-5 180 x 215

1x



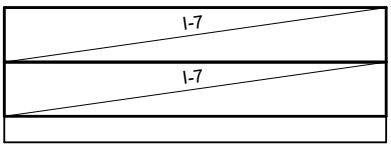
I-30 605 x 96
I-30 605 x 96

1x



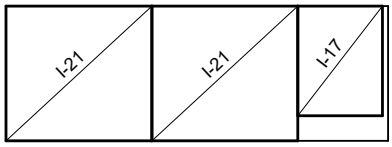
I-30 605 x 96
I-30 605 x 96

1x



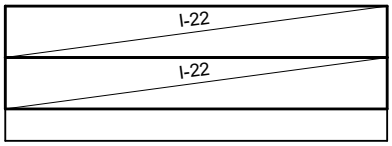
I-7 605 x 87
I-7 605 x 87

2x



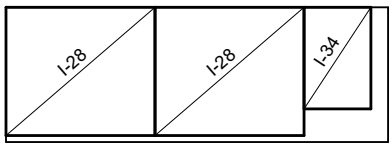
I-21 231 x 215
I-21 231 x 215
I-17 134 x 175

3x



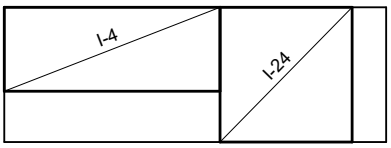
I-22 605 x 82
I-22 605 x 82

1x



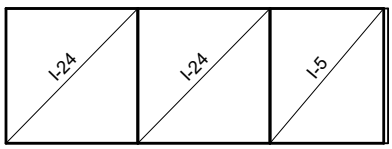
I-28 236 x 205
I-28 236 x 205
I-34 162 x 106

2x



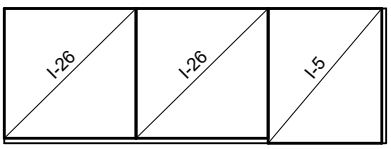
I-4 342 x 134
I-24 209 x 215

3x



I-24 209 x 215
I-24 209 x 215
I-5 180 x 215

1x



I-26 209 x 207
I-26 209 x 207
I-5 180 x 215

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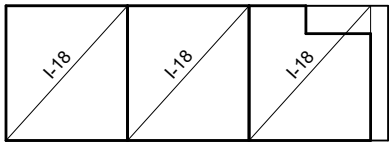
BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

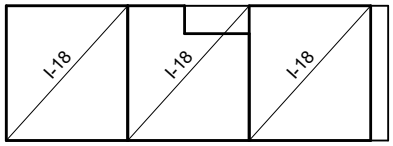
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

1x



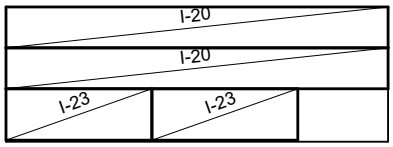
I-18 192 x 215
I-18 192 x 215
I-18 192 x 215

1x



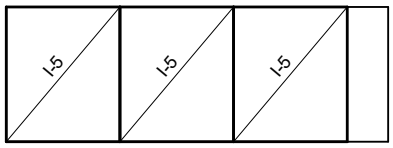
I-18 192 x 215
I-18 192 x 215
I-18 192 x 215

1x



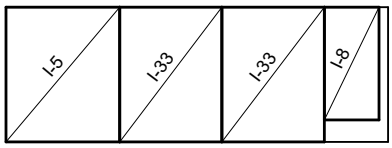
I-20 605 x 65
I-20 605 x 65
I-23 231 x 82
I-23 231 x 82

5x



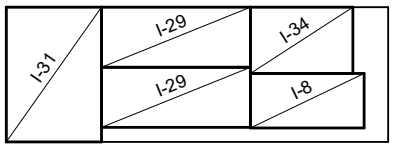
I-5 180 x 215
I-5 180 x 215
I-5 180 x 215

1x



I-5 180 x 215
I-33 162 x 215
I-33 162 x 215
I-8 180 x 87

1x

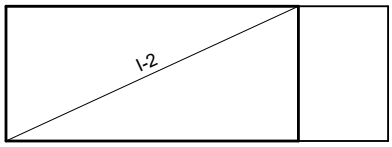


I-31 151 x 215
I-29 236 x 96
I-29 236 x 96
I-34 162 x 106
I-8 180 x 87

STROPNE GREDE 1.KATA - BOLNICA

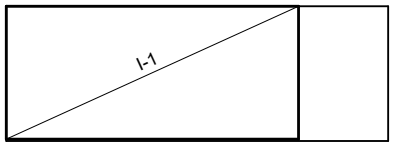
Q-424 (605 cm x 215 cm)

12x



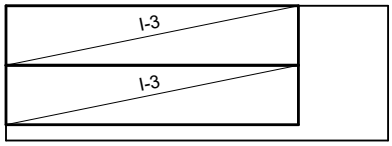
I-2 463 x 215

4x



I-1 463 x 212

2x

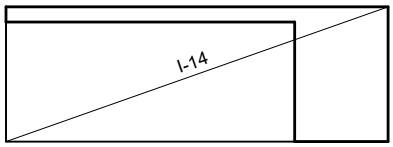


I-3 463 x 95
I-3 463 x 95

STROPNA PLOČA 2.KATA - BOLNICA

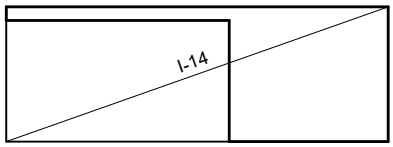
Q-283 (605 cm x 215 cm)

2x



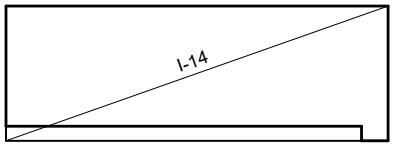
I-14 605 x 215

2x



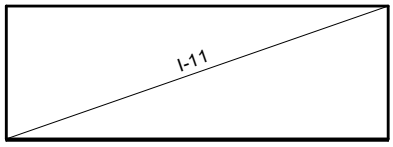
I-14 605 x 215

2x



I-14 605 x 215

4x



I-11 605 x 212

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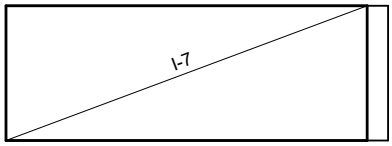
BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

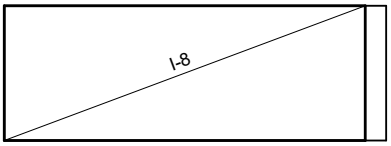
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

1x



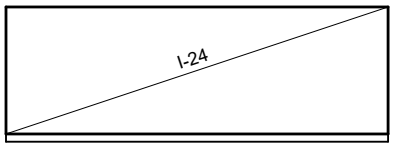
I-7 572 x 215

1x



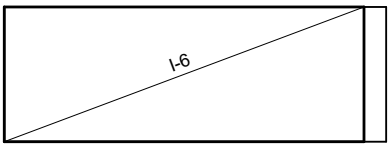
I-8 572 x 215

6x



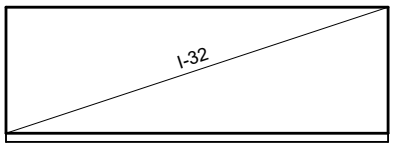
I-24 605 x 203

1x



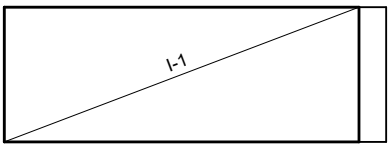
I-6 570 x 215

2x



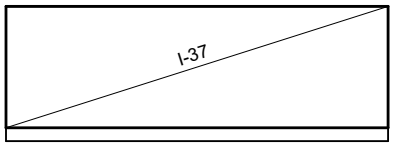
I-32 605 x 201

3x



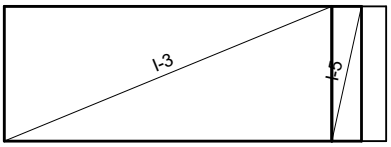
I-1 562 x 215

2x



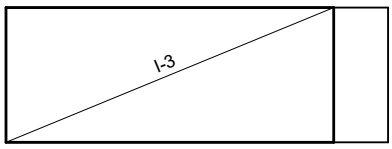
I-37 605 x 194

1x



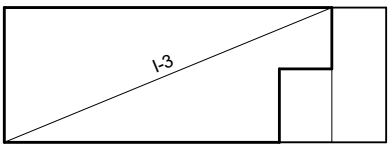
I-3 519 x 215
I-5 47 x 215

7x



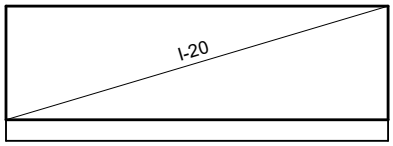
I-3 519 x 215

1x



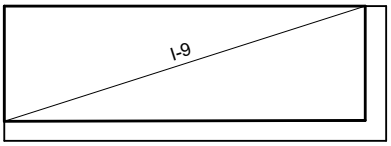
I-3 519 x 215

2x



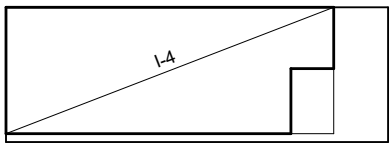
I-20 605 x 181

1x



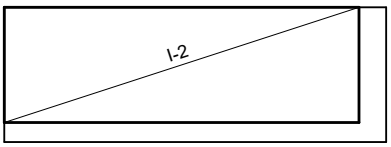
I-9 572 x 184

1x



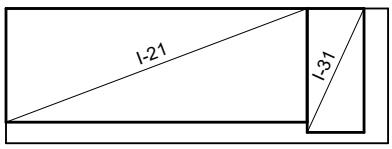
I-4 519 x 202

1x



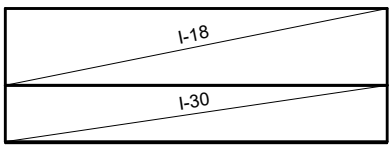
I-2 562 x 184

2x



I-21 477 x 181
I-31 198 x 90

2x



I-18 605 x 123
I-30 605 x 90

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BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

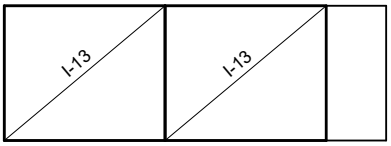
Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

2x

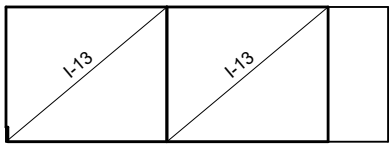
I-35 605 x 121
I-30 605 x 90

8x



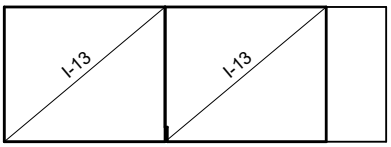
I-13 255 x 215
I-13 255 x 215

1x



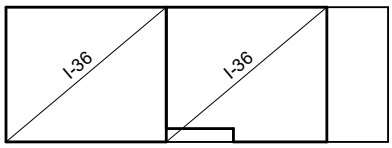
I-13 255 x 215
I-13 255 x 215

1x



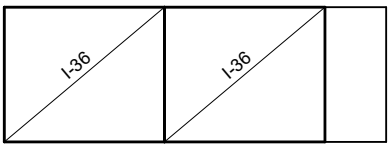
I-13 255 x 215
I-13 255 x 215

2x



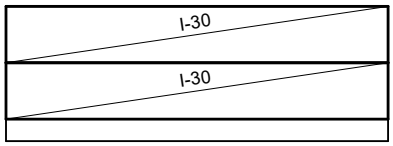
I-36 254 x 215
I-36 254 x 215

3x



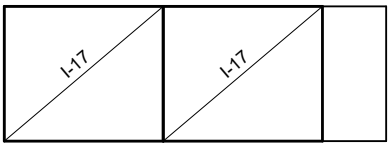
I-36 254 x 215
I-36 254 x 215

1x



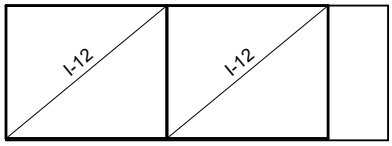
I-30 605 x 90
I-30 605 x 90

1x



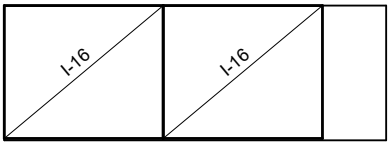
I-17 252 x 215
I-17 252 x 215

1x



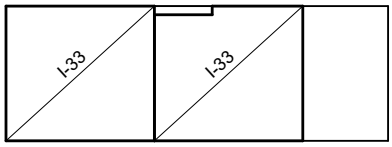
I-12 255 x 212
I-12 255 x 212

1x



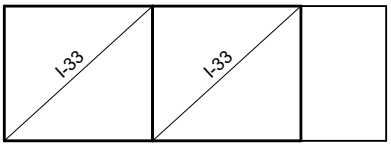
I-16 252 x 212
I-16 252 x 212

1x



I-33 235 x 215
I-33 235 x 215

1x



I-33 235 x 215
I-33 235 x 215

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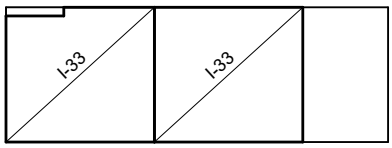
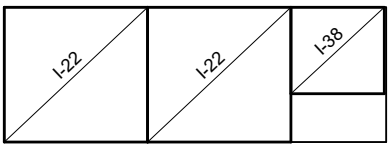


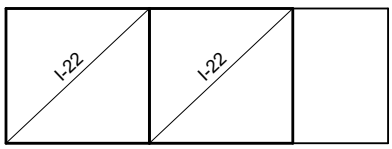
I-33 235 x 215
I-33 235 x 215

2x



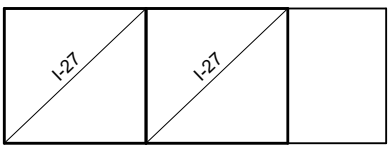
I-22 227 x 215
I-22 227 x 215
I-38 148 x 138

14x



I-22 227 x 215
I-22 227 x 215

11x



I-27 224 x 215
I-27 224 x 215

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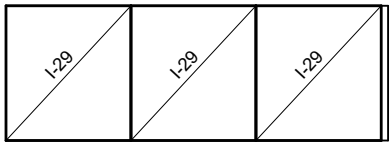
Vladka Mačeka 5, Karlovac, OIB:07474736792
E-mail : crnemarko@gmail.com
TEL: 047/ 614-845
MOB: 091/614-8451

BROJ PROJEKTA: **P-181/26**
ZAJED. OZNAKA PROJ.: **ZOP-VB/2019**
INVESTITOR: VELEUČILIŠTE U KARLOVCU, Trg J.J. Strossmayera 9, Karlovac

Šipke - specifikacija

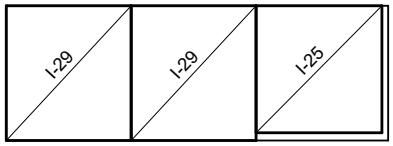
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena

2x



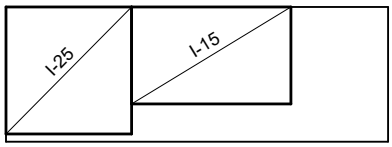
I-29 198 x 215
I-29 198 x 215
I-29 198 x 215

1x



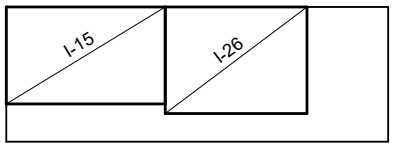
I-29 198 x 215
I-29 198 x 215
I-25 199 x 203

1x



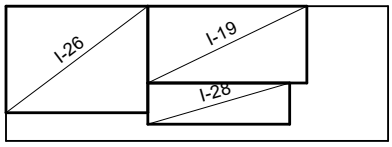
I-25 199 x 203
I-15 252 x 155

1x



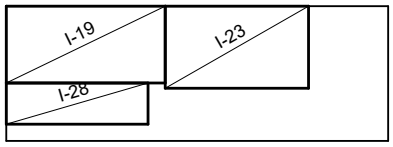
I-15 252 x 155
I-26 224 x 170

1x



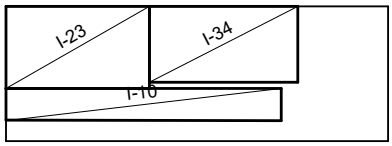
I-26 224 x 170
I-19 252 x 123
I-28 224 x 66

1x



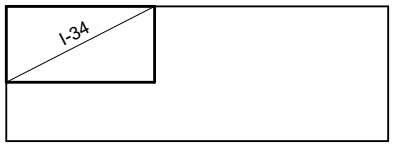
I-19 252 x 123
I-23 227 x 131
I-28 224 x 66

1x



I-23 227 x 131
I-34 235 x 121
I-10 436 x 51

1x

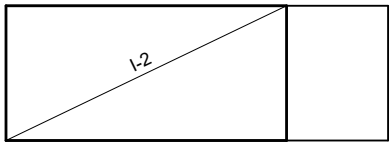


I-34 235 x 121

STROPNE GREDE 2.KATA - BOLNICA

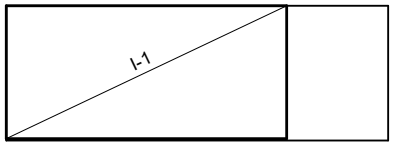
Q-424 (605 cm x 215 cm)

12x



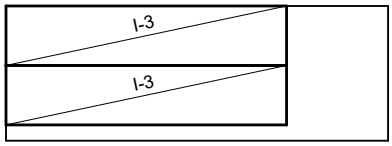
I-2 444 x 215

4x



I-1 444 x 212

2x



I-3 444 x 95
I-3 444 x 95

Projektant:

Marko Črne, mag.ing.aedif.

HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA
Marko Črne
mag. ing. aedif.
Ovlašteni inženjer građevinarstva
G 5170

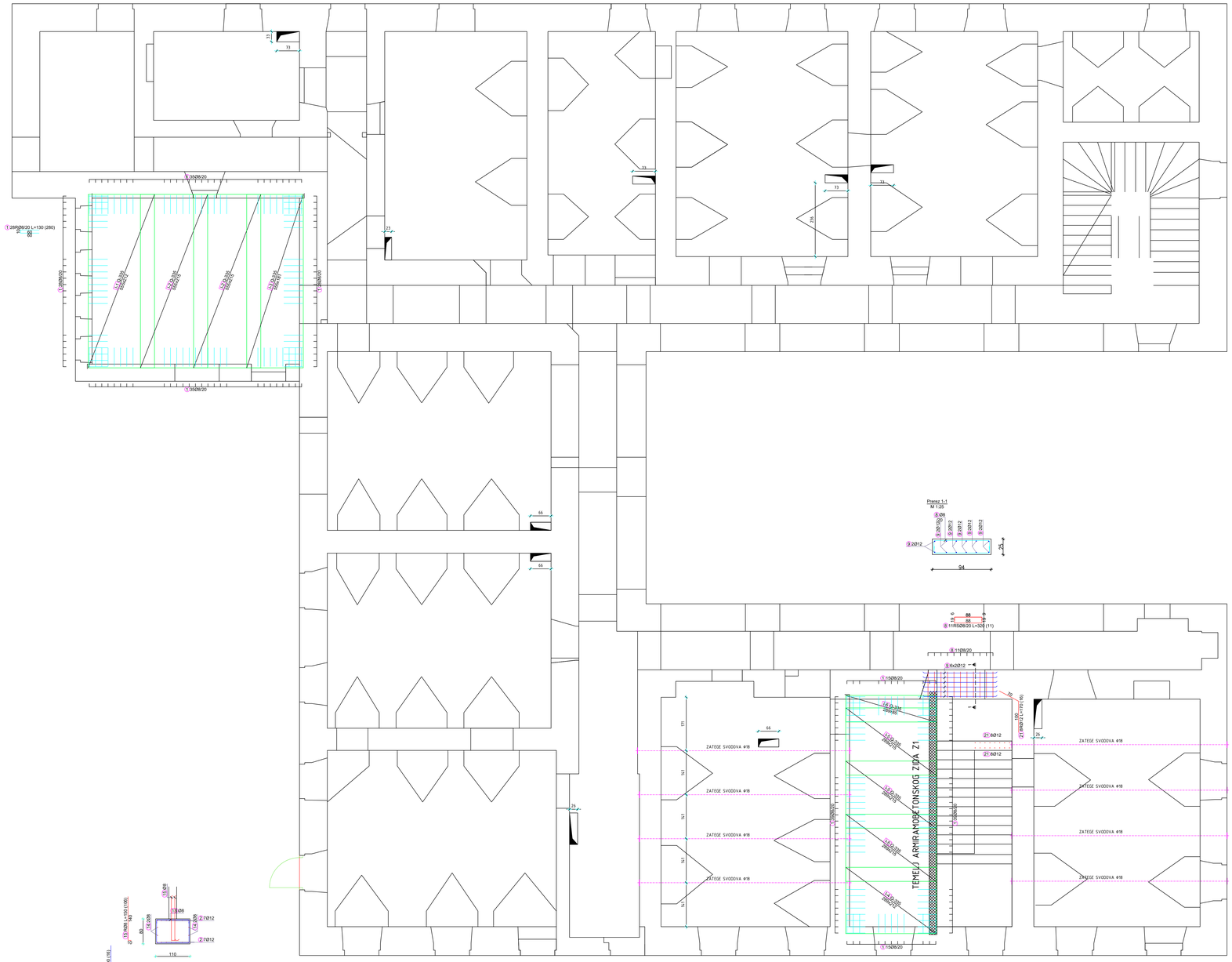
4. NACRTI

STROPNA PLOČA PRIZEMLJA D=16 CM

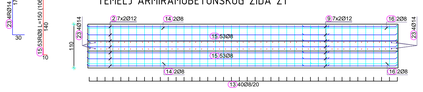
DONJA ZONA

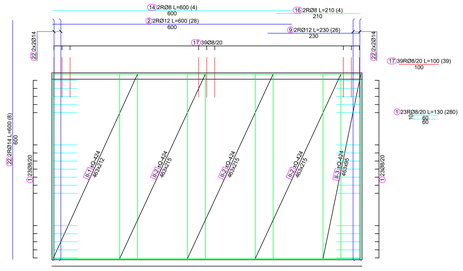
c=2.5 cm

C 25/30

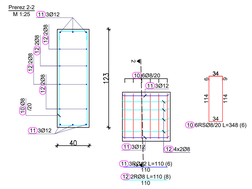


TEMELJ ARMIRAMOBETONSKOG ZIDA Z1





TEMELJ STUBIŠTA



DIMNJAČAR d.o.o., KARLOVAC, Vladka Mačeka 5
e-mail: crnemarko@gmail.com, tel.: 091/614-8451, 047/614-845

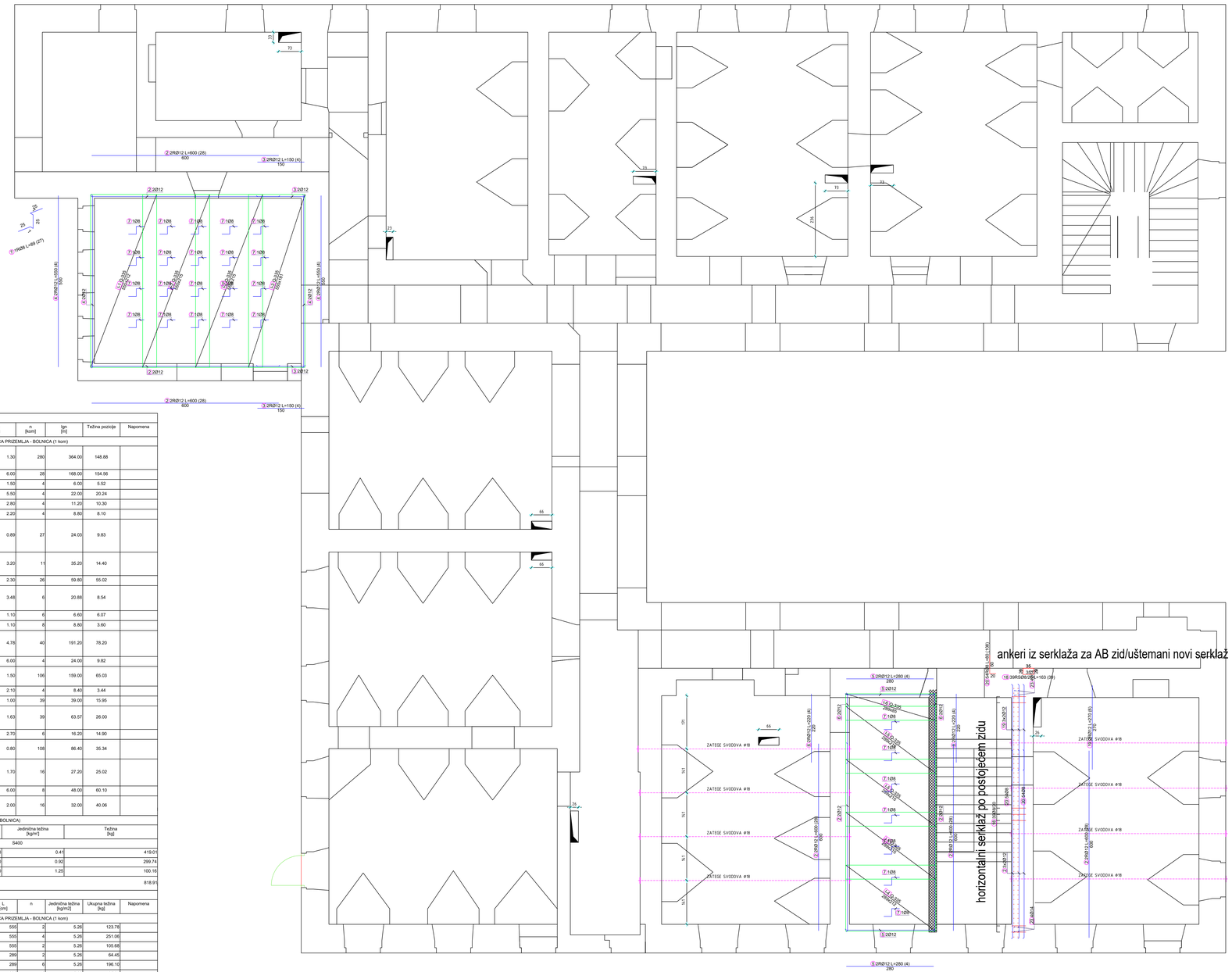
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4** **k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STROPNA PLOČA PRIZEMLJA - DONJA ZONA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva Črne G 5170	DATUM Lipanj, 2026. / MJERILO M 1:50 / OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA 1
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.	Črne	ZAJEDNIČKA OZNAKA ZOP-VB/2019

STROPNA PLOČA PRIZEMLJA D=16 CM

GORNJA ZONA

c=2.5 cm

C 25/30



Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STROPNA PLOČA PRIZEMLJA - BOLNICA (1 kom)							
1	60 / 20 / 60	8	1.30	280	364.00	148.88	
2	600	12	6.00	28	168.00	154.56	
3	150	12	1.50	4	6.00	5.52	
4	550	12	5.50	4	22.00	20.24	
5	280	12	2.80	4	11.20	10.30	
6	220	12	2.20	4	8.80	8.10	
7	25 / 25 / 25 / 25 / 3D geometrija	8	0.89	27	24.03	9.83	
8	88 / 20 / 20 / 88	8	3.20	11	35.20	14.40	
9	230	12	2.30	26	59.80	55.02	
10	8 / 114 / 114 / 26 / 26	8	3.48	6	20.88	8.54	
11	110	12	1.10	6	6.60	6.07	
12	110	8	1.10	8	8.80	3.60	
13	104 / 26 / 26 / 104	8	4.78	40	191.20	78.20	
14	600	8	6.00	4	24.00	9.82	
15	140 / 10	8	1.50	106	159.00	65.03	
16	210	8	2.10	4	8.40	3.44	
17	100	8	1.00	39	39.00	15.95	
18	35 / 20 / 20 / 35	8	1.63	39	63.57	26.00	
19	270	12	2.70	6	16.20	14.90	
20	60 / 20	8	0.80	108	86.40	35.34	
21	70 / 100 / 82 / 33	12	1.70	16	27.20	25.02	
22	600	14	6.00	8	48.00	60.10	
23	170 / 20	14	2.00	16	32.00	40.06	

Šipke - rekapitulacija oplate (STROPNA PLOČA PRIZEMLJA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	1024.48	0.41	419.01
12	325.80	0.92	299.74
14	80.00	1.25	100.16
Ukupno			818.91

Mreže - specifikacija

Pozicija	Oznaka mreže	B [cm]	L [cm]	n	Jedinična težina [kg/m2]	Ukupna težina [kg]	Napomena
STROPNA PLOČA PRIZEMLJA - BOLNICA (1 kom)							
I-1	Q-335	212	555	2	5.26	123.78	
I-2	Q-335	215	555	4	5.26	251.06	
I-3	Q-335	181	555	2	5.26	105.68	
I-4	Q-335	212	289	2	5.26	64.45	
I-5	Q-335	215	289	6	5.26	196.10	
I-6	Q-335	85	289	2	5.26	25.84	
II-1	Q-424	212	463	2	6.66	130.74	
II-2	Q-424	215	463	6	6.66	397.78	
II-3	Q-424	95	463	2	6.66	58.59	
Ukupno						1354.02	

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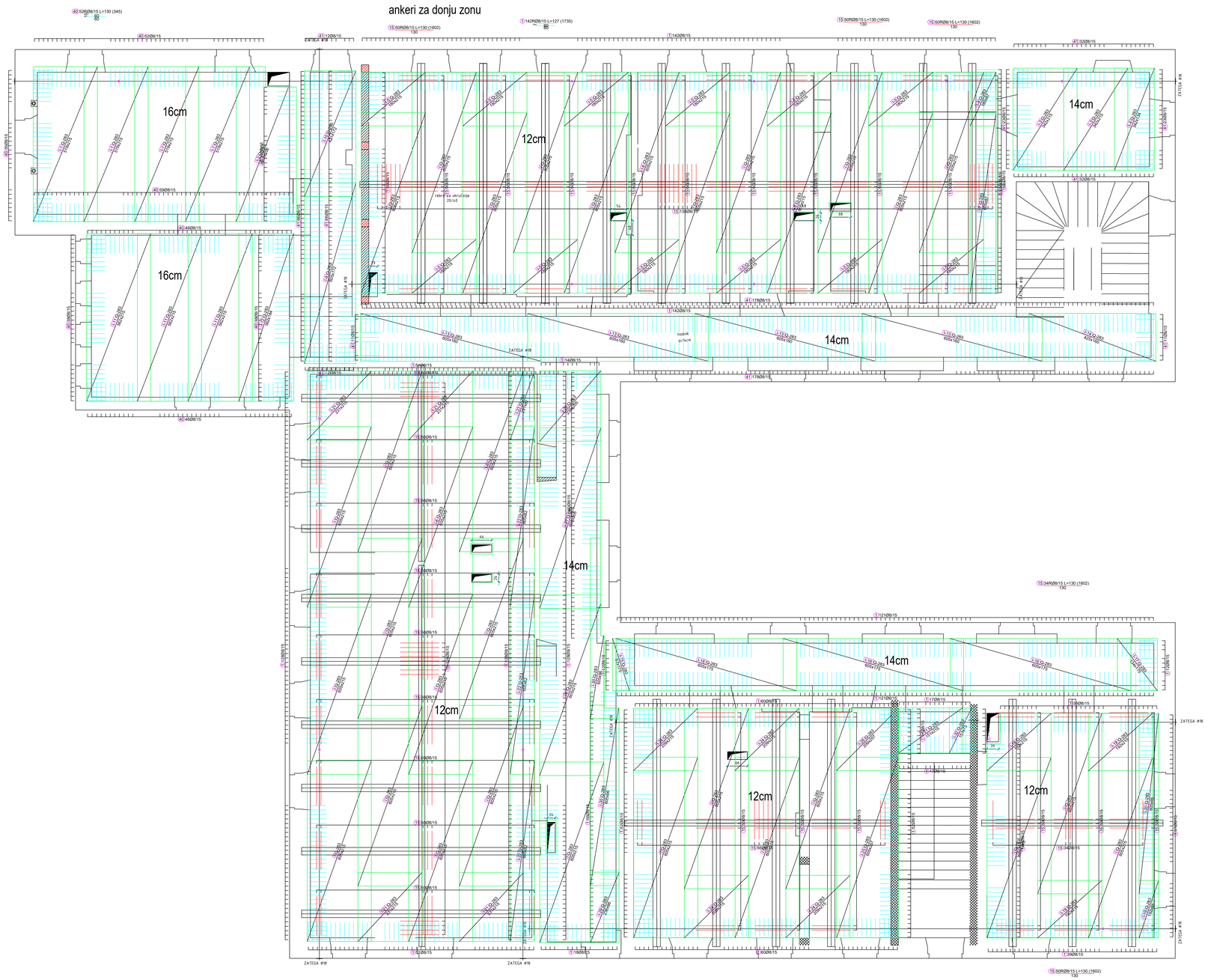
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STROPNA PLOČA PRIZEMLJA - GORNJA ZONA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif. HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva Č 5170	DATUM Lipanj, 2026.	MJERILO M 1:50
		OZNAKA PROJEKTA P-181/26.	BROJ / CRTEŽA
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.	ZAJEDNIČKA OZNAKA ZOP-VB/2019	2

STROPNA PLOČA 1. KATA D=16 CM

DONJA ZONA

c=2,0 cm

C 25/30



DIMNJAČAR d.o.o., KARLOVAC, Vladka Mačeka 5
e-mail: cmemarko@gmail.com, tel.: 091/614-8451, 047/614-845

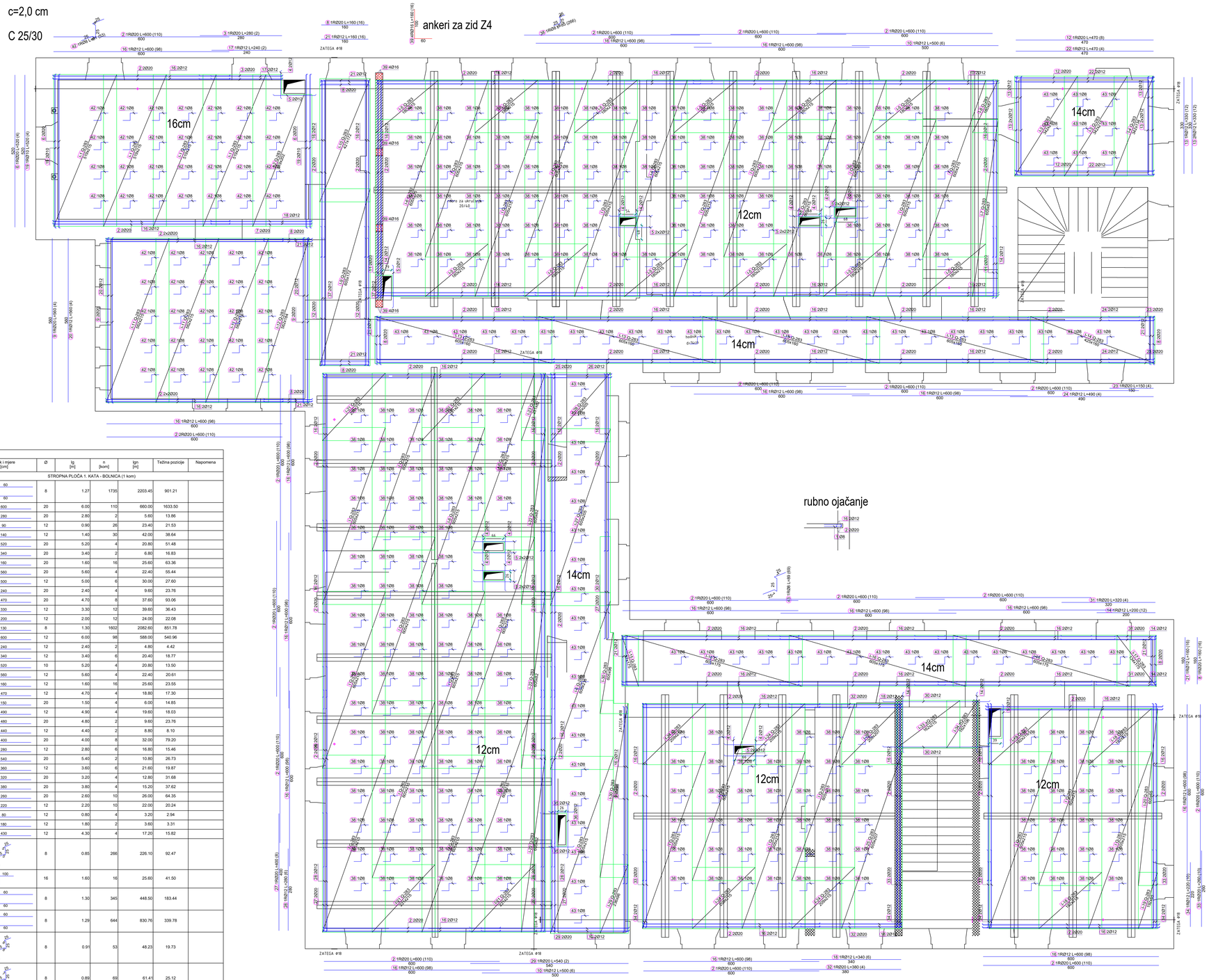
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4** **k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STROPNA PLOČA 1.KATA - DONJA ZONA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva G 5170	DATUM Lipanj, 2026. / MJERILO M 1:50
			OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA 3
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		ZAJEDNIČKA OZNAKA ZOP-VIS/2019

STROPNA PLOČA 1. KATA D=16 CM

GONJA ZONA

c=2,0 cm

C 25/30



Mreže - specifikacija							
Pozicija	Oznaka mreže	B [cm]	L [cm]	n	Jedinična težina [kg/m2]	Ukupna težina [kg]	Napomena
STROPNA PLOČA 1. KATA - BOLNICA (1 kom)							
I	Q-283	215	605	55	4.44	3176.43	
I-1	Q-283	215	519	8	4.44	396.35	
I-2	Q-283	202	519	2	4.44	93.10	
I-3	Q-283	215	342	4	4.44	130.59	
I-4	Q-283	134	342	2	4.44	40.70	
I-5	Q-283	215	180	24	4.44	412.39	
I-6	Q-283	215	605	11	4.44	635.29	
I-7	Q-283	87	605	2	4.44	46.63	
I-8	Q-283	87	180	2	4.44	13.87	
I-9	Q-283	172	605	2	4.44	92.41	
I-10	Q-283	172	421	2	4.44	64.30	
I-11	Q-283	215	562	6	4.44	321.89	
I-12	Q-283	184	562	2	4.44	91.83	
I-13	Q-283	160	605	8	4.44	343.83	
I-14	Q-283	160	425	2	4.44	60.38	
I-15	Q-283	175	57	2	4.44	8.82	
I-16	Q-283	175	605	6	4.44	282.05	
I-17	Q-283	175	134	2	4.44	20.86	
I-18	Q-283	215	192	6	4.44	110.24	
I-19	Q-283	65	192	2	4.44	11.15	
I-20	Q-283	65	605	2	4.44	35.06	
I-21	Q-283	215	231	8	4.44	176.41	
I-22	Q-283	82	605	6	4.44	132.16	
I-23	Q-283	82	231	2	4.44	16.82	
I-24	Q-283	215	209	8	4.44	159.61	
I-25	Q-283	207	605	2	4.44	111.21	
I-26	Q-283	207	209	2	4.44	38.42	
I-27	Q-283	205	605	2	4.44	110.13	
I-28	Q-283	205	236	2	4.44	42.96	
I-29	Q-283	96	236	2	4.44	20.12	
I-30	Q-283	96	605	4	4.44	103.15	
I-31	Q-283	215	151	1	4.44	14.41	
I-32	Q-283	75	151	1	4.44	5.03	
I-33	Q-283	215	162	2	4.44	30.93	
I-34	Q-283	106	162	2	4.44	15.25	
Ukupno						7364.78	

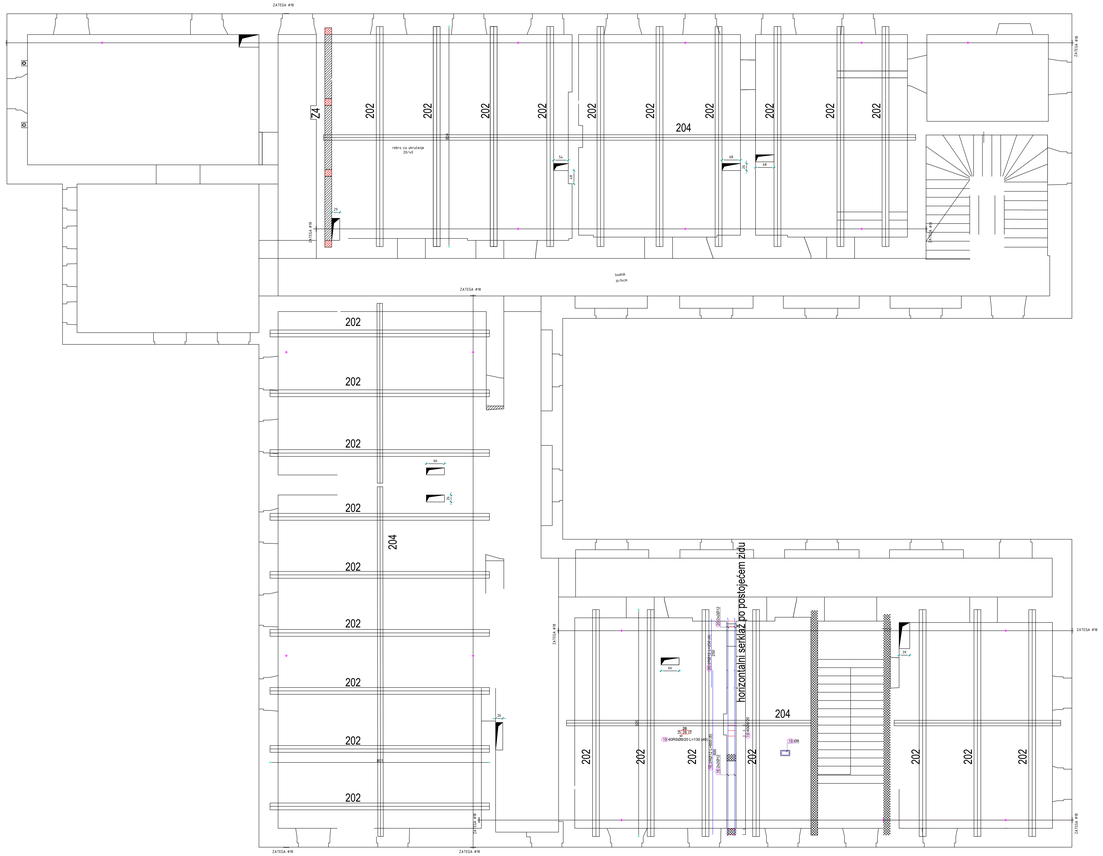
Šipke - specifikacija							
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STROPNA PLOČA 1. KATA - BOLNICA (1 kom)							
1	60 / 60	8	1.27	1735	2203.45	901.21	
2	600	20	6.00	110	660.00	1633.50	
3	280	20	2.80	2	5.60	13.86	
4	90	12	0.90	26	23.40	21.53	
5	140	12	1.40	30	42.00	38.64	
6	520	20	5.20	4	20.80	51.48	
7	340	20	3.40	2	6.80	16.83	
8	160	20	1.60	16	25.60	63.36	
9	560	20	5.60	4	22.40	55.44	
10	500	12	5.00	6	30.00	27.60	
11	240	20	2.40	4	9.60	23.76	
12	470	20	4.70	8	37.60	93.06	
13	330	12	3.30	12	39.60	36.43	
14	200	12	2.00	12	24.00	22.08	
15	130	8	1.30	1602	2082.60	851.78	
16	600	12	6.00	98	588.00	540.96	
17	240	12	2.40	2	4.80	4.42	
18	340	12	3.40	6	20.40	18.77	
19	520	10	5.20	4	20.80	13.50	
20	560	12	5.60	4	22.40	20.61	
21	160	12	1.60	16	25.60	23.55	
22	470	12	4.70	4	18.80	17.30	
23	150	20	1.50	4	6.00	14.85	
24	490	12	4.90	4	19.60	18.03	
25	480	20	4.80	2	9.60	23.76	
26	440	12	4.40	2	8.80	8.10	
27	400	20	4.00	8	32.00	79.20	
28	280	12	2.80	6	16.80	15.46	
29	540	20	5.40	2	10.80	26.73	
30	360	12	3.60	6	21.60	19.87	
31	320	20	3.20	4	12.80	31.68	
32	380	20	3.80	4	15.20	37.62	
33	260	20	2.60	10	26.00	64.35	
34	220	12	2.20	10	22.00	20.24	
35	80	12	0.80	4	3.20	2.94	
36	180	12	1.80	2	3.60	3.31	
37	430	12	4.30	4	17.20	15.82	
38	3D geometrija	8	0.85	266	226.10	92.47	
39	100	16	1.60	16	25.60	41.50	
40	60 / 60	8	1.30	345	448.50	183.44	
41	60 / 60	8	1.29	644	830.76	339.78	
42	3D geometrija	8	0.91	53	48.23	19.73	
43	3D geometrija	8	0.89	69	61.41	25.12	

Šipke - rekapitulacija oplate (STROPNA PLOČA 1. KATA - BOLNICA)			
Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
8	5901.05	0.41	2413.53
10	20.80	0.65	13.50
12	951.80	0.92	875.66
16	25.60	1.62	41.50
20	900.80	2.48	2229.48
Ukupno			5573.66

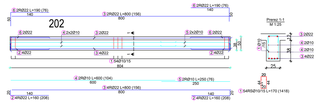
DIMNJAČAR d.o.o., KARLOVAC, Vladka Mačeka 5
e-mail: crnemarko@gmail.com, tel.: 091/614-8451, 047/614-845

INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRADEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	BADŽAJ **STROPNA PLOČA 1.KATA - GORNJA ZONA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva G 5176	DATUM Lipanj, 2026. / MJERILO M 1:50
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA 4
			ZAJEDNIČKA OZNAKA ZOP-VB/2019

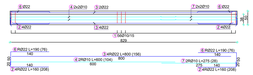
STROPNE GREDE 1. KATA



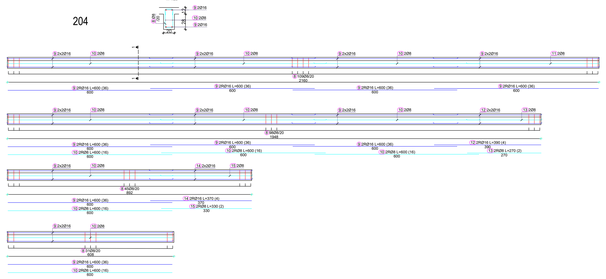
GREDA 25/50 CM UKUPNO 19 KOMADA



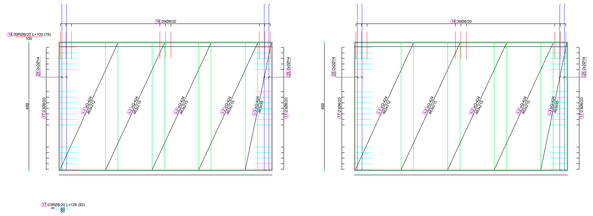
GREDA 25/50 CM UKUPNO 7 KOMADA



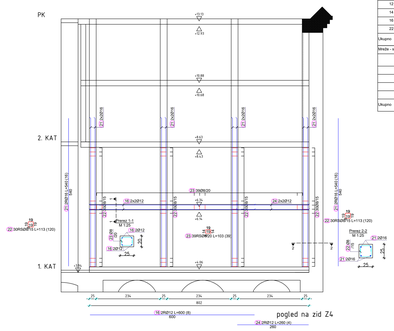
REBRO ZA UKRUTU 20/40 CM



ARMIRANO BETONSKI ZID D=25 CM



ZID Z4



Šipke - specifikacija

ozn.	oblik i izgled [cm]	ID	∑L [m]	n [kom]	∑kg [kg]	Tražna pozicija	Napomena
STROPNE GREDE 1.KATA - BOJNICA (1 kom)							
1	44 / 34 / 34	10	1.70	1418	2410.60	1564.48	
2	142 / 840	22	1.65	208	332.80	1017.70	
3	840	22	8.00	156	1248.00	3816.48	
4	800	10	6.00	104	624.00	404.98	
5	250	10	2.50	79	195.50	123.31	
6	140 / 40	22	1.80	70	144.40	441.58	
7	275	10	2.75	28	77.00	49.97	
8	34 / 34 / 34	8	1.26	284	362.24	146.16	
9	800	16	6.00	36	216.00	350.14	
10	800	8	6.00	16	96.00	39.26	
11	480	8	4.80	2	9.60	3.93	
12	380	16	3.80	8	15.60	25.29	
13	270	8	2.70	2	5.40	2.21	
14	375	16	3.75	4	14.80	23.99	
15	330	8	3.30	2	6.60	2.70	
16	600	12	6.00	8	48.00	44.16	
17	40 / 40 / 40	8	1.28	92	117.76	48.16	
18	100	8	1.00	78	78.00	31.90	
19	28 / 28 / 28	8	1.30	40	52.00	21.27	
20	240	12	2.50	4	10.00	9.20	
21	340	16	3.40	10	86.40	140.05	
22	35 / 35 / 35 / 35	8	1.13	120	135.60	55.46	
23	25 / 25 / 25 / 25	8	1.00	30	40.17	16.43	
24	280	12	2.80	4	10.40	9.57	
25	600	14	6.00	16	96.00	125.16	

Šipke - rekapitulacija oplate (STROPNE GREDE 1.KATA - BOJNICA)

ø [mm]	∑L [m]	Jedinična težina [kg/m']	Težina [kg]
BAS			
8	663.37	0.4	395.49
10	3361.80	0.62	2142.74
12	68.40	0.89	60.88
14	96.00	1.21	120.16
16	332.80	1.62	539.47
22	1725.20	3.05	5275.66
Ukupno			8510.41

Mreže - specifikacija

Pozicija	Oznaka mreže	B [cm]	L [cm]	n	Jedinična težina [kg/m2]	Ukupna težina [kg]	Napomena
STROPNE GREDE 1.KATA - BOJNICA (1 kom)							
1.1	Q-424	215	465	4	6.66	261.45	
1.2	Q-424	215	465	12	6.66	785.56	
1.3	Q-424	95	465	4	6.66	117.16	
Ukupno						1174.23	

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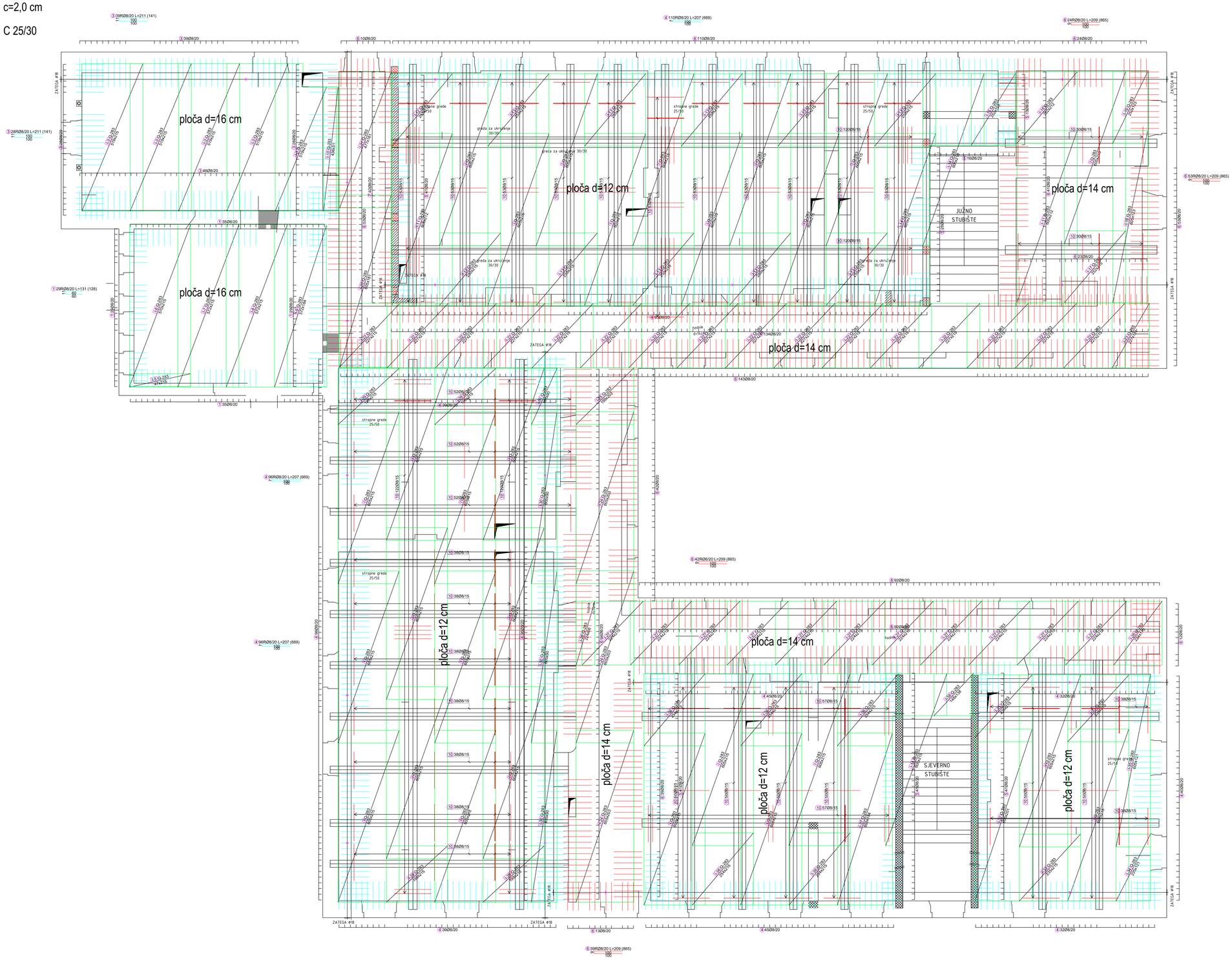
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**
GRAĐEVINA	**VJEKOSLAVA KARAŠA 3, 47000 Karlovac**
LOKACIJA	**k.č. 6924 k.o. Karlovac**
GRAĐ. PROJEKAT	**PROJEKT ARMIRANE GRAĐEVINE**
FAZA	**IZVEDBENI PROJEKT**
NAZIV	**STROPNE GREDE 1.KATA**
PROJEKTANT	**PETRA JURČEVIĆ** mag.ing.arh.
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif. — OVLAŠTENI INŽENJER NEŽELEZNIH CONSTRUKCIJA Marko Črne mag.ing.aedif. Ovlašteni inženjer građevinarstva, E-13.05
DATUM	Lipanj, 2026.
MJERILO	M 1:50
GLAVNI PROJEKTANT	**MARKO ČRNE** mag.ing.aedif. P-150 GK
BROJ PRILOGA	5
DIRECTOR	**MARKO ČRNE** mag.ing.aedif.
GLAVNA BROJ. KNJIGE	ZGP-VB/2019

STROPNA PLOČA 2. KATA D=16 CM

DONJA ZONA

c=2,0 cm

C 25/30



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e-mail: crnemarko@gmail.com, tel.: 091/614-8451, 047/614-845

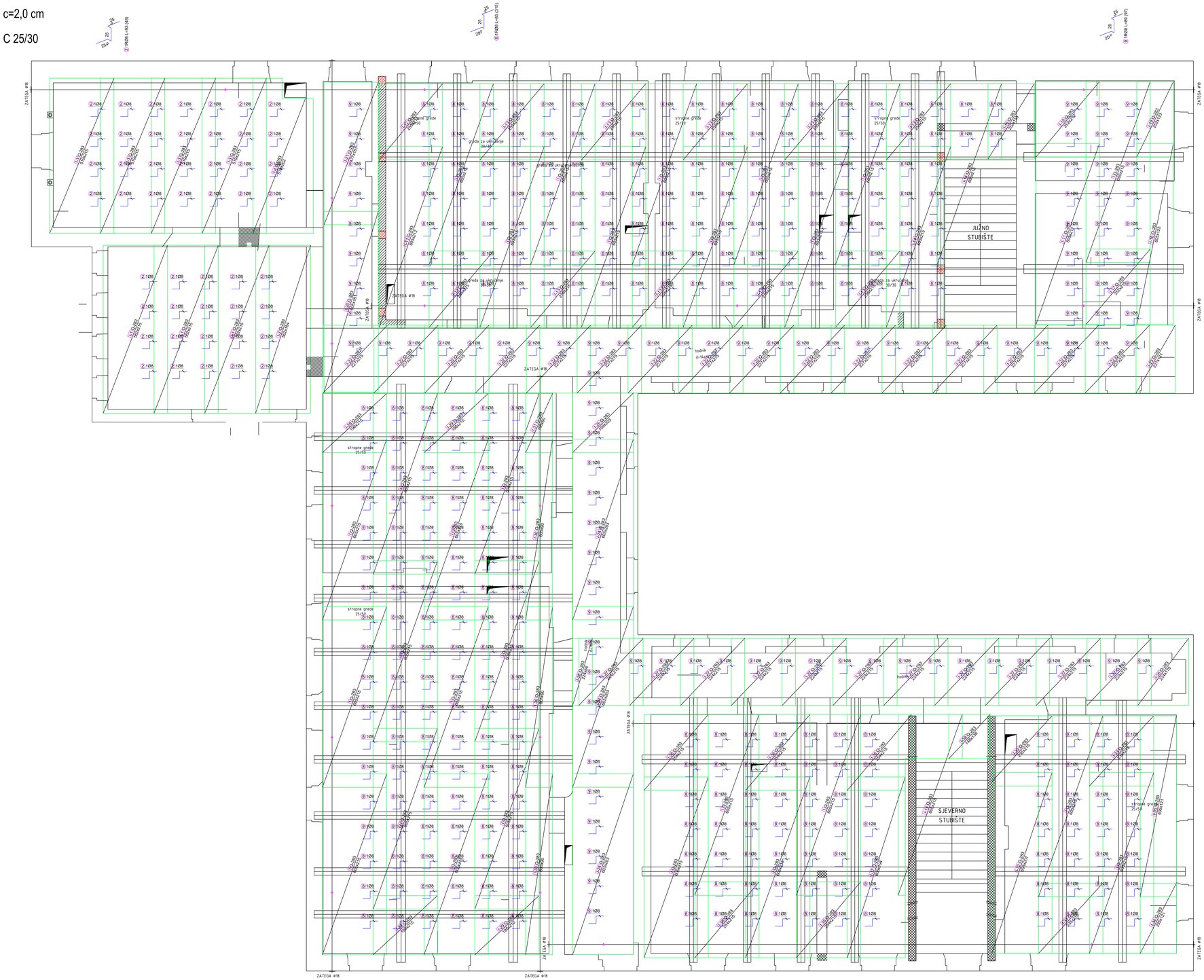
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STROPNA PLOČA 2.KATA - DONJA ZONA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva C 5170	DATUM Lipanj, 2026. / MJERILO M 1:50 / OZNAKA PROJEKTA P-18126 / BROJ CRTEŽA 6
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		ZAJEDNIČKA OZNAKA ZOP-VB/2019

STROPNA PLOČA 2. KATA D=16 CM

GONJA ZONA

c=2,0 cm

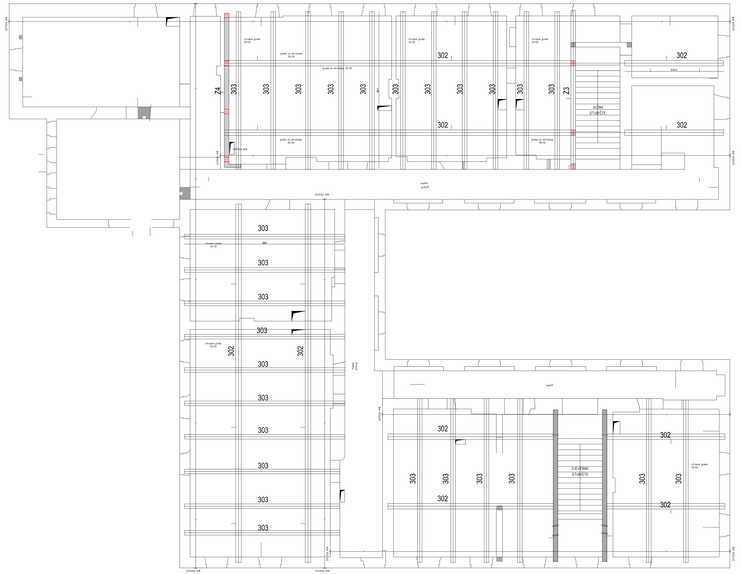
C 25/30



Šipke - specifikacija

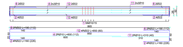
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STROPNA PLOČA 2.KATA - BOLNICA (1 kom)							
1	60 / 11 / 60	8	1.31	128	167.68	68.58	
2	25 / 25 / 25 /

STROPNE GREDE 2. KATA

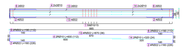


GREDA 25/50 CM UKUPNO 11 KOMADA

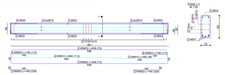
GREDA 25/50 CM UKUPNO 10 KOMADA



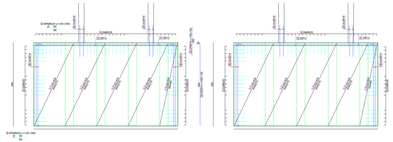
GREDA 25/50 CM UKUPNO 6 KOMADA



GREDA 25/60 cm iznad zida Z3

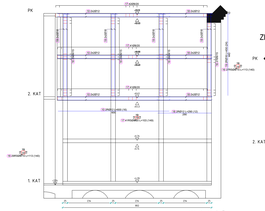


ARMIRANO BETONSKI ZID D=25 CM



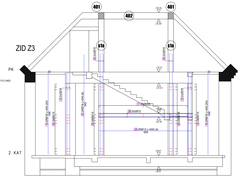
REBRO ZA UKRUTU 30/30 CM POZ 302

ZID Z4



pogled na zid Z4

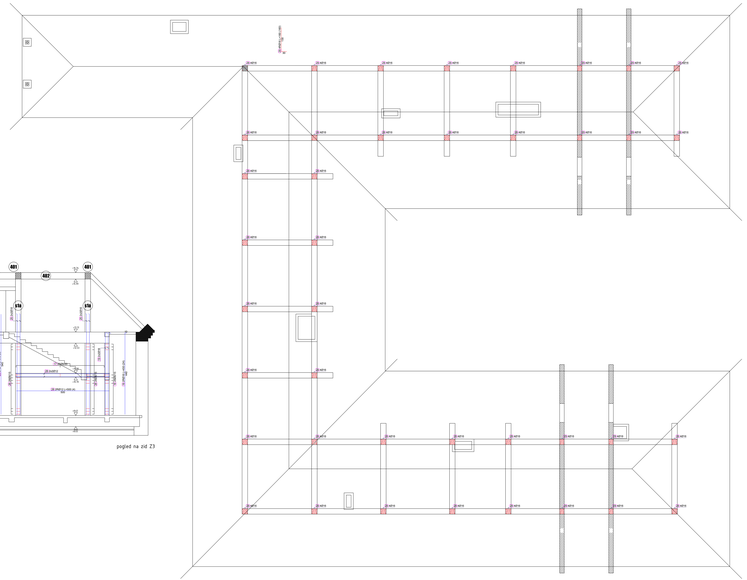
ZID Z3



pogled na zid Z3

ANKERI ZA VERTIKALNE SERKLAŽE POTKROVLJA
OSTAVITI ANKERE IZ GREDA ZA UKRUTU
c=3.0 cm

C 30/37



Popis - specifikacija

Poz.	Oznaka oplate	Br. kom.	Tip. dim. (cm)	Ukupno (m²)	Tlačna oplata	Napomena
			STROPNE GREDE 2.KATA - REDAK(1 x kom)			
1		11	1.0	198	198,00	
2		1	1.0	18	18,00	
3		10	0.38	10	38,00	
4		10	2.00	10	200,00	
5		10	1.00	10	100,00	
6		10	1.50	110	165,00	
7		6	1.00	108	108,00	
8		6	1.50	108	162,00	
9		6	1.00	108	108,00	
10		12	0.30	48	14,40	
11		10	0.30	40	12,00	
12		20	0.30	80	24,00	
13		20	0.30	80	24,00	
14		16	0.30	64	19,20	
15		16	0.30	64	19,20	
16		6	1.15	108	186,30	
17		6	1.15	108	124,20	
18		6	1.15	108	124,20	
19		16	1.50	28	168,00	
20		16	0.30	4	24,00	
21		16	0.30	4	24,00	
22		16	1.40	4	22,40	
23		16	1.40	4	22,40	
24		16	1.40	4	22,40	
25		16	1.40	4	22,40	
26		11	1.00	16	176,00	
27		11	1.00	2	22,00	
28		16	1.15	16	184,00	
29		16	1.00	160	256,00	
30		16	1.00	16	16,00	
31		16	1.00	16	16,00	
32		16	1.00	16	16,00	

Popis - specifikacija

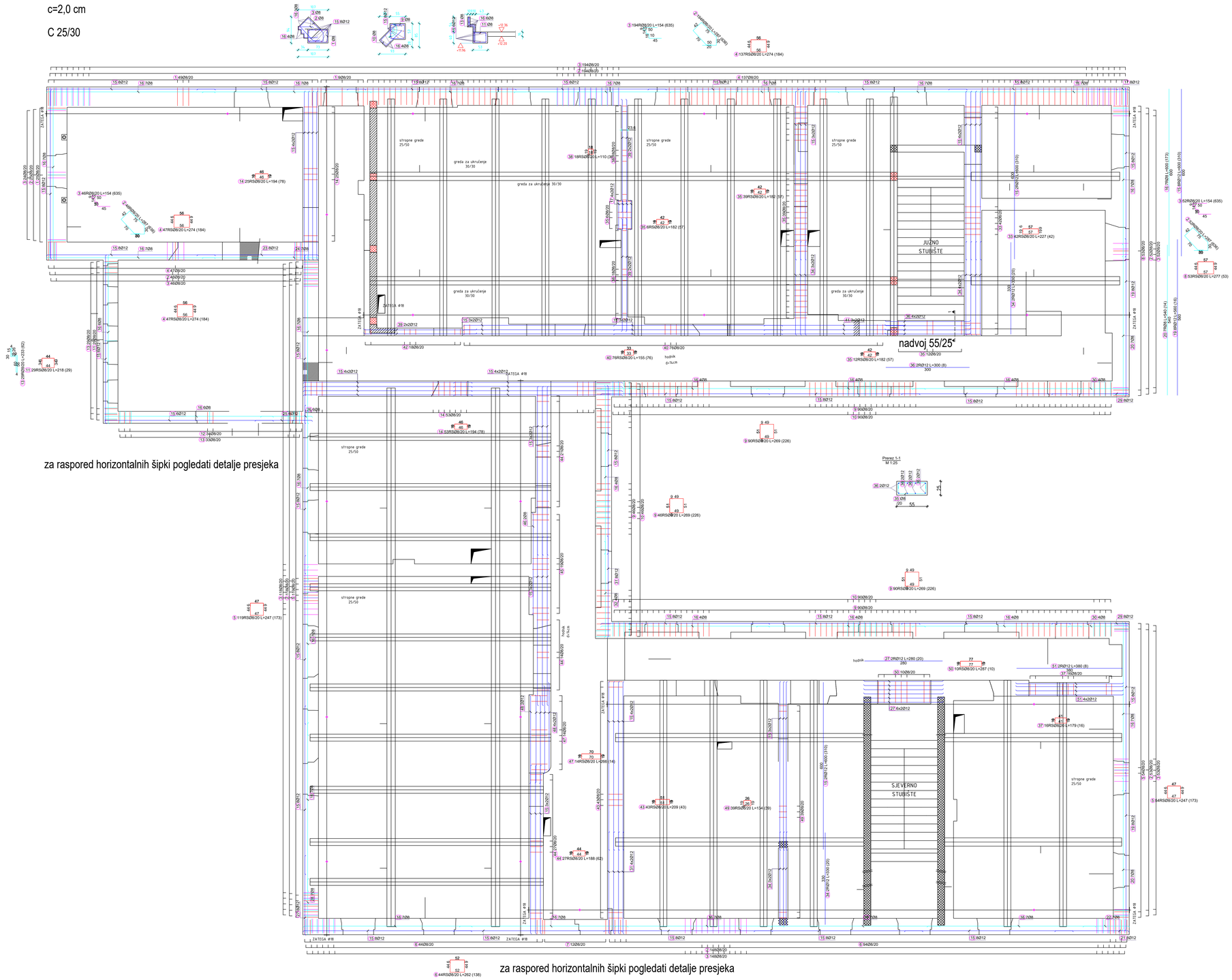
Poz.	Oznaka oplate	Br. kom.	Tip. dim. (cm)	Ukupno (m²)	Tlačna oplata	Napomena
			STROPNE GREDE 2.KATA - REDAK(1 x kom)			
33		16	1.00	16	16,00	
34		16	1.00	16	16,00	
35		16	1.00	16	16,00	

za raspored horizontalnih šipki pogledati detalje presjeka

HORIZONTALNI SERKLAŽI

c=2,0 cm

C 25/30



za raspored horizontalnih šipki pogledati detalje presjeka

za raspored horizontalnih šipki pogledati detalje presjeka

Šipke - specifikacija

con	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
HORIZONTALNI SERKLAŽI 2.KATA - BOLNICA (1 kom)							
1	87 / 33 / 87	8	3.07	83	254.81	104.22	
2	30 / 54 / 12 / 70 / 70 / 12 / 20 / 30 / 50	8	2.87	636	1825.32	746.56	
3	50 / 10 / 14 / 10 / 10 / 45	8	1.54	635	977.90	399.96	
4	56 / 33 / 56	8	2.74	184	504.16	206.20	
5	47 / 33 / 47	8	2.47	173	427.31	174.77	
6	52 / 33 / 52	8	2.62	138	361.56	147.88	
7	48 / 33 / 48	8	2.50	12	30.00	12.27	
8	57 / 33 / 57	8	2.77	53	146.81	60.05	
9	51 / 33 / 51	8	2.69	226	607.94	248.65	
10	75 / 14 / 10 / 75 / 25 / 75	8	1.98	226	447.48	183.02	
11	44 / 33 / 44	8	2.18	29	63.22	25.86	
12	36 / 33 / 36	8	1.94	34	65.96	26.98	
13	30 / 15 / 26 / 15 / 55 / 60	8	2.33	62	144.46	59.08	
14	46 / 33 / 46	8	1.94	78	151.32	61.89	
15	600	12	6.00	310	1860.00	1711.20	
16	600	8	6.00	173	1038.00	424.54	
17	100	12	1.00	16	16.00	14.72	
18	520	8	5.20	7	36.40	14.89	
19	560	12	5.60	16	89.60	82.43	
20	540	8	5.40	14	75.60	30.92	
21	260	12	2.60	8	20.80	19.14	
22	160	8	1.60	7	11.20	4.58	
23	430	12	4.30	8	34.40	31.65	
24	410	8	4.10	7	28.70	11.74	
25	200	12	2.00	6	12.00	11.04	
26	180	8	1.80	6	10.80	4.42	
27	280	12	2.80	20	56.00	51.52	
28	195	8	1.95	7	13.65	5.58	
29	270	12	2.70	16	43.20	39.74	
30	210	8	2.10	8	16.80	6.87	
31	360	12	3.60	16	57.60	52.99	
32	340	8	3.40	4	13.60	5.56	
33	57 / 33 / 57	8	2.27	42	95.34	38.99	
34	330	12	3.30	20	66.00	60.72	
35	42 / 33 / 42	8	1.82	57	103.74	42.43	
36	300	12	3.00	8	24.00	22.08	
37	41 / 33 / 41	8	1.79	16	28.64	11.71	
38	8 / 19 / 16 / 19	8	1.10	36	39.60	16.20	
39	400	12	4.00	12	48.00	44.16	
40	33 / 33 / 33	8	1.55	76	117.80	48.18	
41	500	12	5.00	6	30.00	27.60	
42	22 / 33 / 22	8	1.22	18	21.96	8.98	
43	51 / 33 / 51	8	2.09	43	89.87	36.76	
44	44 / 33 / 44	8	1.88	62	116.56	47.67	
45	63 / 33 / 63	8	2.45	19	46.55	19.04	
46	360	8	3.60	2	7.20	2.94	
47	70 / 33 / 70	8	2.66	14	37.24	15.23	
48	310	12	3.10	10	31.00	28.52	
49	26 / 33 / 26	8	1.34	39	52.26	21.37	
50	77 / 33 / 77	8	2.87	10	28.70	11.74	
51	380	12	3.80	8	30.40	27.97	

Šipke - rekapitulacija oplate (HORIZONTALNI SERKLAŽI 2.KATA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m]	Težina [kg]
S400			
8	8038.46	0.41	3287.73
12	2419.00	0.92	2225.48
Ukupno			5513.21

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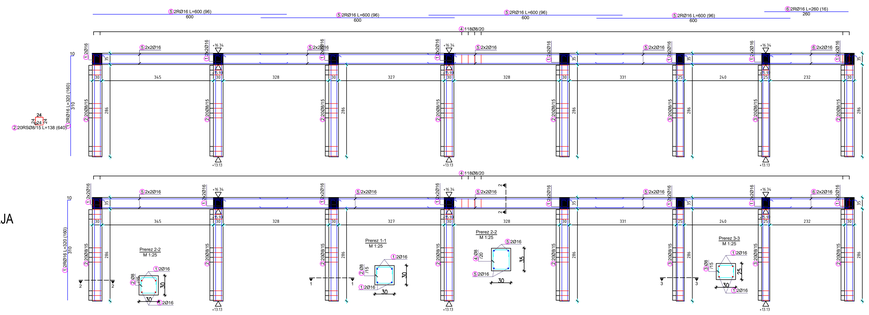
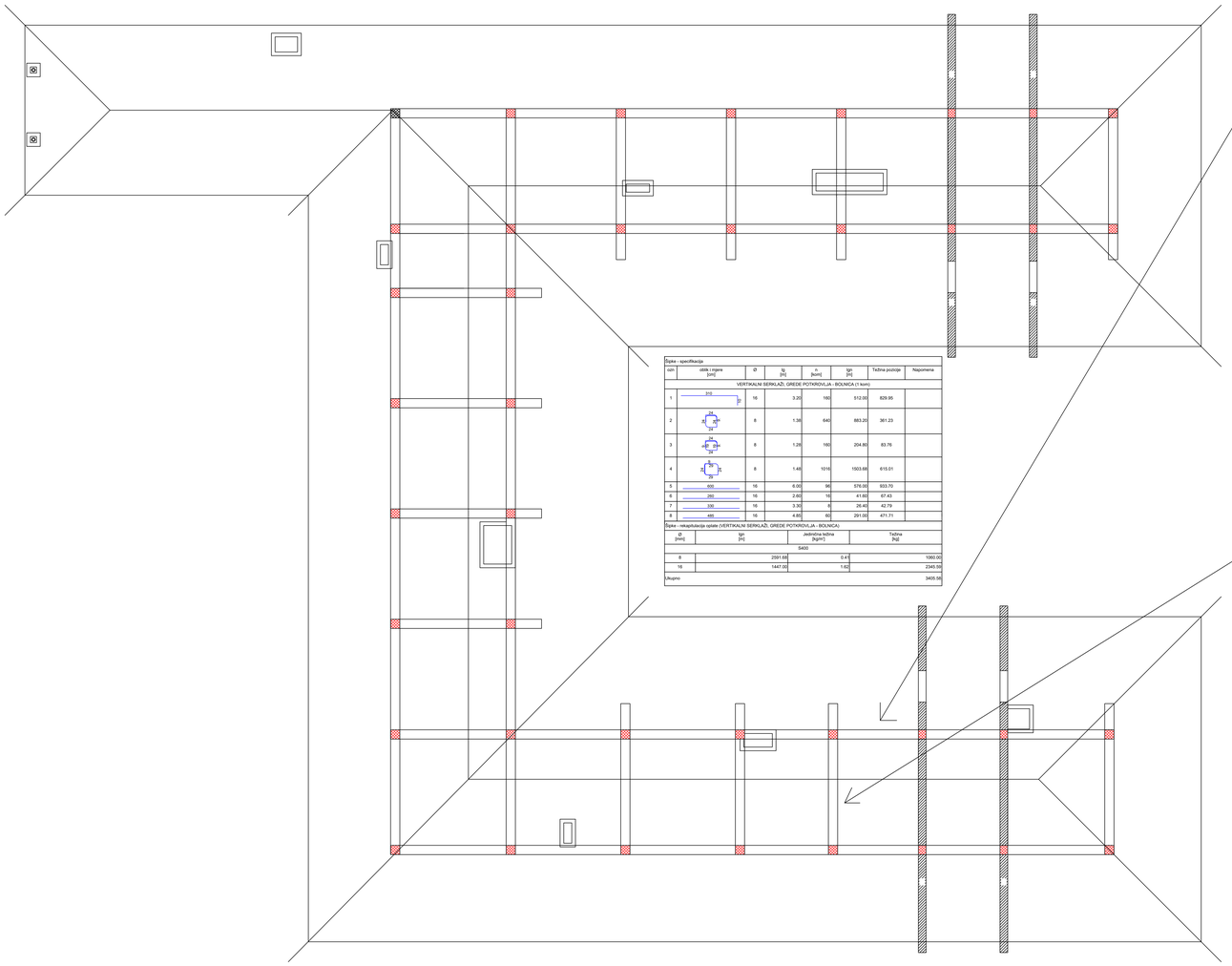
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4** **k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **HORIZONTALNI SERKLAŽI 2.KATA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva G 5170	DATUM Lipanj, 2026. / MJERILO M 1:50 / OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		ZAJEDNIČKA OZNAKA ZOP-VB/2019 / 9

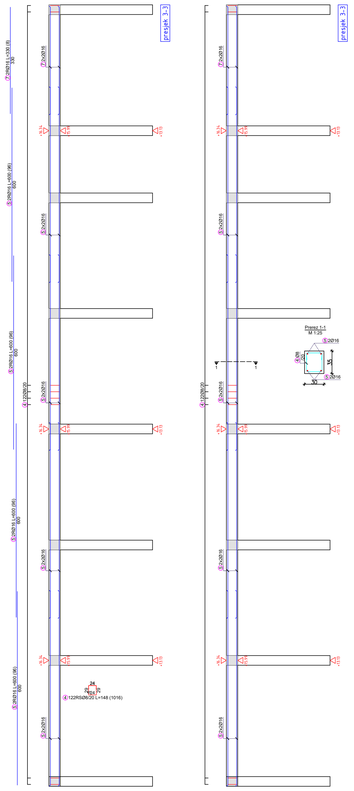
VERTIKALNI SERKLAŽI I GREDE POTKROVLJA

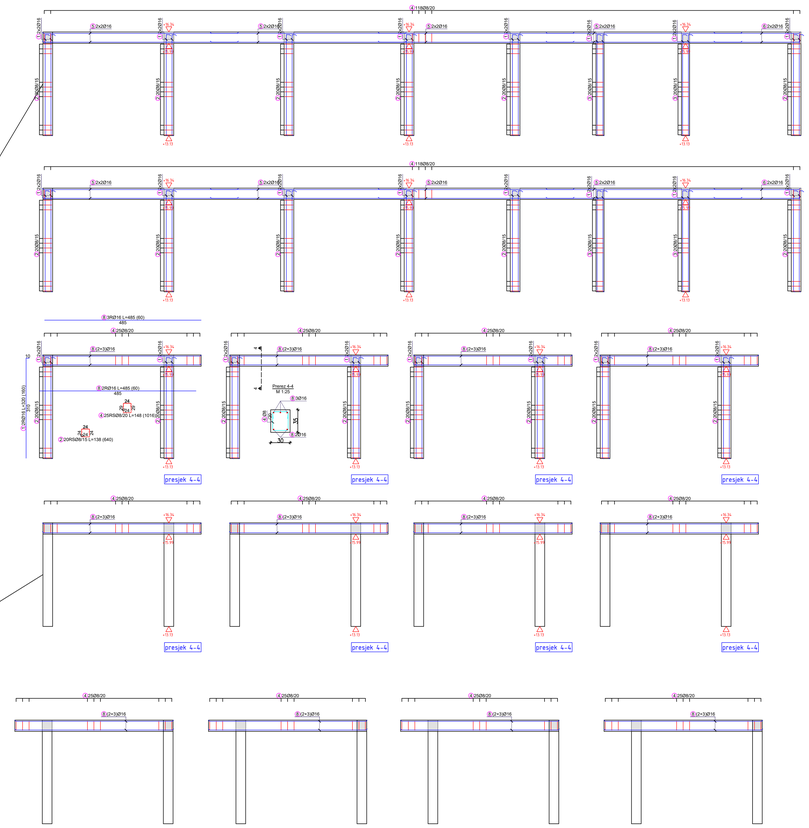
c=2,0 cm

C 25/30









Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lu [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
VERTIKALNI SERKLAŽI, GREDE POTKROVLJA - BOLNICA (1 kom)							
1	310 / 37	16	3.20	160	512.00	829.95	
2	25 / 25 / 25 / 25 / 34	8	1.38	640	883.20	361.23	
3	25 / 25 / 25 / 25 / 34	8	1.29	160	204.80	83.76	
4	25 / 25 / 25 / 25 / 34	8	1.48	1016	1503.68	615.01	
5	400	16	6.00	96	576.00	933.70	
6	260	16	2.60	16	41.60	67.43	
7	330	16	3.30	8	26.40	42.79	
8	485	16	4.85	60	291.00	471.71	

Šipke - rekapitulacija spisa (VERTIKALNI SERKLAŽI, GREDE POTKROVLJA - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m1]	Težina [kg]
S400			
8	2591.68	0.41	1060.00
16	1447.00	1.62	2345.58
Ukupno			3405.58

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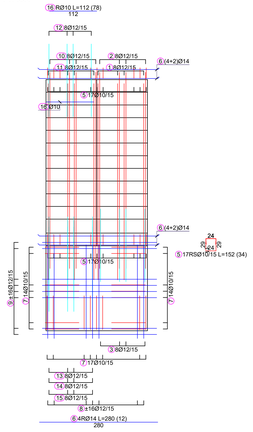
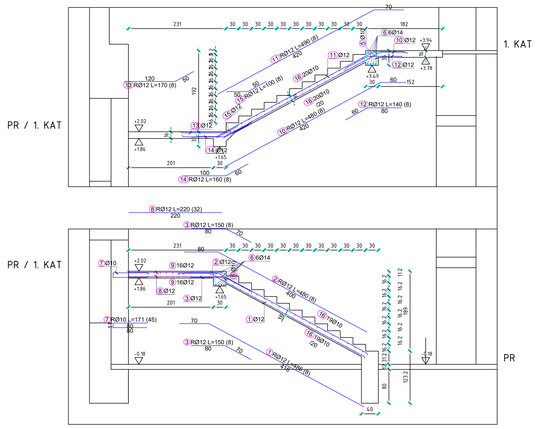
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA: **PROJEKT ARMATURE**	FAZA: **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ: **VERTIKALNI SERKLAŽI I GREDE POTKROVLJA**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašten inženjer građevinarstva IG 5 1 09	DATUM: Ljipeg, 2026. / MJERILO: M 1:50
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		GLAVNA PROJEKTA: P-18/1/26 / BROJ CRTEŽA: **10**
			ZAJEDNIČKA OZNAKA: ZOP-IV/B/2018

stibište priz - 1.kat



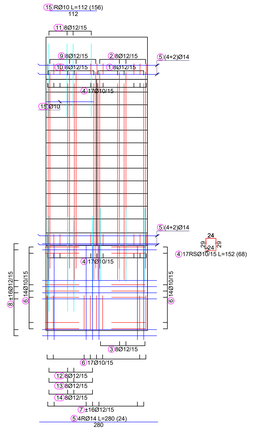
PRESJEK KROZ SJEVERNO STUBIŠTE



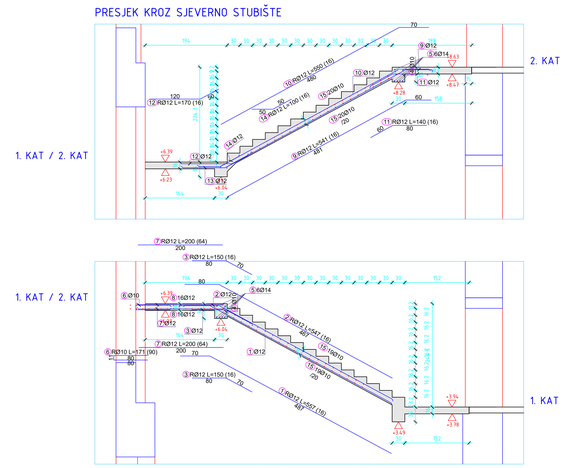
Šipke - specifikacija							
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STUBIŠTE SJEVERNO PR-1K- BOLNICA (1 kom)							
1	416 / 70 / 63	12	4.86	8	38.88	35.77	
2	400 / 60 / 70	12	4.80	8	38.40	35.33	
3	80 / 70 / 52	12	1.50	8	12.00	11.04	
5	29 / 24 / 11 / 24 / 29	10	1.52	34	51.68	33.54	
6	280	14	2.80	12	33.60	42.07	
7	80 / 11 / 80	10	1.71	45	76.95	49.94	
8	220	12	2.20	32	70.40	64.77	
9	230	12	2.30	32	73.60	67.71	
10	420 / 53 / 60	12	4.80	8	38.40	35.33	
11	420 / 63 / 70	12	4.90	8	39.20	36.06	
12	80 / 60 / 53	12	1.40	8	11.20	10.30	
13	120 / 60 / 53	12	1.70	8	13.60	12.51	
14	100 / 60 / 53	12	1.60	8	12.80	11.78	
15	50 / 10 / 44	12	1.00	8	8.00	7.36	
16	112	10	1.12	78	87.36	56.70	

Šipke - rekapitulacija oplate (STUBIŠTE SJEVERNO PR-1K- BOLNICA)			
Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	215.99	0.65	140.18
12	356.48	0.92	327.96
14	33.60	1.25	42.07
Ukupno			510.21

stibište 1.kat - 2.kat



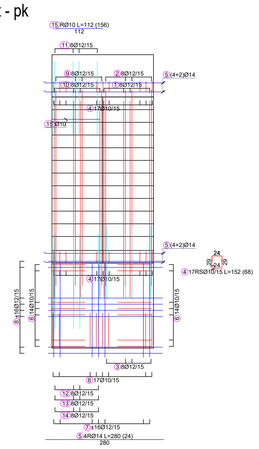
PRESJEK KROZ SJEVERNO STUBIŠTE



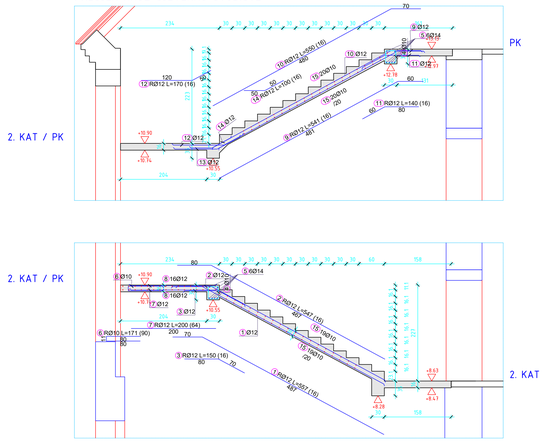
Šipke - specifikacija							
ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STUBIŠTE SJEVERNO 1K-2K - PK BOLNICA (1 kom)							
1	487 / 70 / 62	12	5.57	16	89.12	81.99	
2	487 / 60 / 70	12	5.47	16	87.52	80.52	
3	80 / 70 / 52	12	1.50	16	24.00	22.08	
4	29 / 24 / 11 / 24 / 29	10	1.52	68	103.36	67.08	
5	280	14	2.80	24	67.20	84.13	
6	80 / 11 / 80	10	1.71	90	153.90	99.88	
7	200	12	2.00	64	128.00	117.76	
8	230	12	2.30	64	147.20	135.42	
9	481 / 60 / 53	12	5.41	16	86.56	79.64	
10	480 / 61 / 53	12	5.50	16	88.00	80.96	
11	80 / 60 / 53	12	1.40	16	22.40	20.61	
12	120 / 50 / 44	12	1.70	16	27.20	25.02	
13	100 / 60 / 53	12	1.60	16	25.60	23.55	
14	50 / 50 / 44	12	1.00	16	16.00	14.72	
15	112	10	1.12	156	174.72	113.39	

Šipke - rekapitulacija oplate (STUBIŠTE SJEVERNO 1K-2K - PK BOLNICA)			
Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	431.98	0.65	280.36
12	741.60	0.92	682.27
14	67.20	1.25	84.13
Ukupno			1046.76

stibište 2.kat - pk



PRESJEK KROZ SJEVERNO STUBIŠTE



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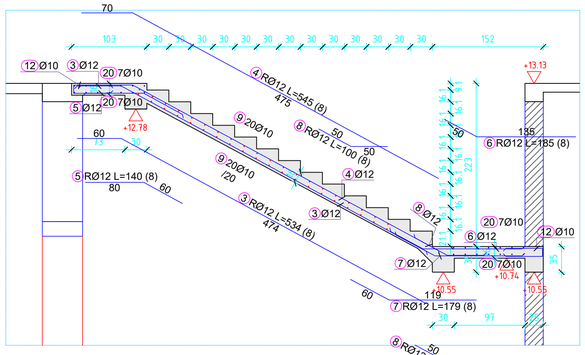
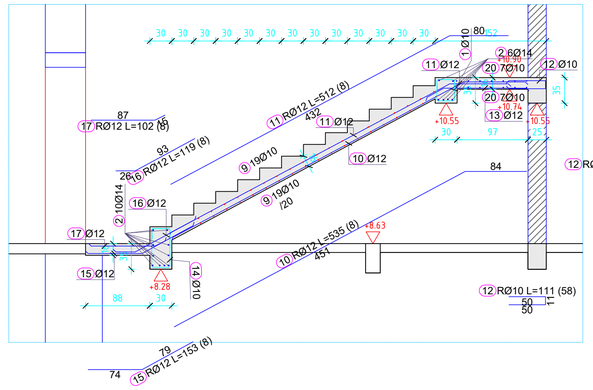
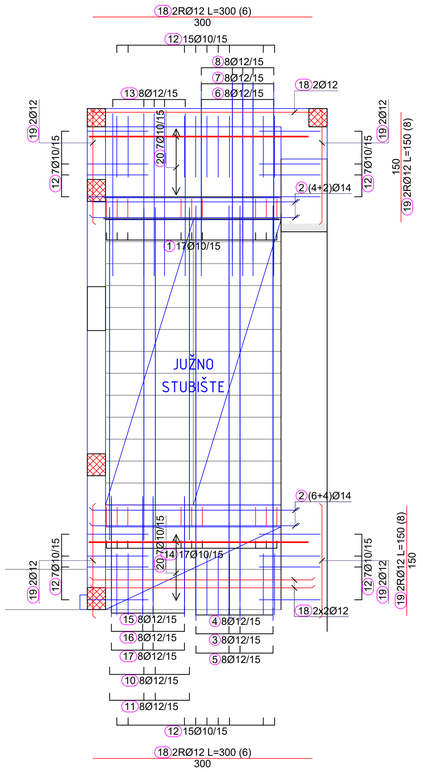
INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRADEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STUBIŠTE SJEVERNO**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer građevinarstva Ć. 5170	DATUM Lipanj, 2026. / MJERILO M 1:50 / OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA 11
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		ZAJEDNIČKA OZNAKA ZOP-VB/2019

PRESJEK KROZ JUŽNO STUBIŠTE







Šipke - specifikacija

ozn	oblik i mjere [cm]	Ø	lg [m]	n [kom]	lgn [m]	Težina pozicije	Napomena
STUBIŠTE JUŽNO 2K-PK - BOLNICA (1 kom)							
1	29 / 24 11 24 / 29	10	1.52	17	25.84	16.77	
2	280	14	2.80	16	44.80	56.09	
3	474 / 53 60 29	12	5.34	8	42.72	39.30	
4	475 / 62 70 33	12	5.45	8	43.60	40.11	
5	80 / 60 53 49	12	1.40	8	11.20	10.30	
6	135 / 50 44 24	12	1.85	8	14.80	13.62	
7	119 / 60 53 28	12	1.79	8	14.32	13.17	
8	50 / 50 44 24	12	1.00	8	8.00	7.36	
9	112	10	1.12	78	87.36	56.70	
10	451 / 84 74 40	12	5.35	8	42.80	39.38	
11	432 / 80 71 38	12	5.12	8	40.96	37.68	
12	11 / 50 / 50	10	1.11	58	64.38	41.78	
13	113 / 26 23 12	12	1.39	8	11.12	10.23	
14	25 / 53 11 53 / 25	10	2.03	17	34.51	22.40	
15	65 / 35 74 / 79	12	1.53	8	12.24	11.26	
16	93 / 23 18 13	12	1.19	8	9.52	8.76	
17	87 / 15 14 7	12	1.02	8	8.16	7.51	
18	300	12	3.00	6	18.00	16.56	
19	150	12	1.50	8	12.00	11.04	
20	300	10	3.00	14	42.00	27.26	

Šipke - rekapitulacija oplate (STUBIŠTE JUŽNO 2K-PK - BOLNICA)

Ø [mm]	lgn [m]	Jedinična težina [kg/m']	Težina [kg]
S400			
10	254.09	0.65	164.90
12	289.44	0.92	266.28
14	44.80	1.25	56.09
Ukupno			487.28

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INVESTITOR	**VELEUČILIŠTE U KARLOVCU**		
GRAĐEVINA	**VJEKOSLAVA KARASA 9, 47000 Karlovac**		
LOKACIJA	**k.č. 992/4 k.o. Karlovac**	VRSTA PROJEKTA **PROJEKT ARMATURE**	FAZA **IZVEDBENI PROJEKT**
GLAVNI PROJEKTANT	**PETRA JURČEVIĆ** dipl.ing.arh.	SADRŽAJ **STUBIŠTE JUŽNO**	
PROJEKTANT	**MARKO ČRNE** mag.ing.aedif.	HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA Marko Črne mag. ing. aedif. Ovlašteni inženjer gradevinarstva G 5170	DATUM Lipanj, 2026. / MJERILO M 1:50 / OZNAKA PROJEKTA P-181/26 / BROJ CRTEŽA 12
DIREKTOR	**MARKO ČRNE** mag.ing.aedif.		ZAJEDNIČKA OZNAKA ZOP-VB/2019