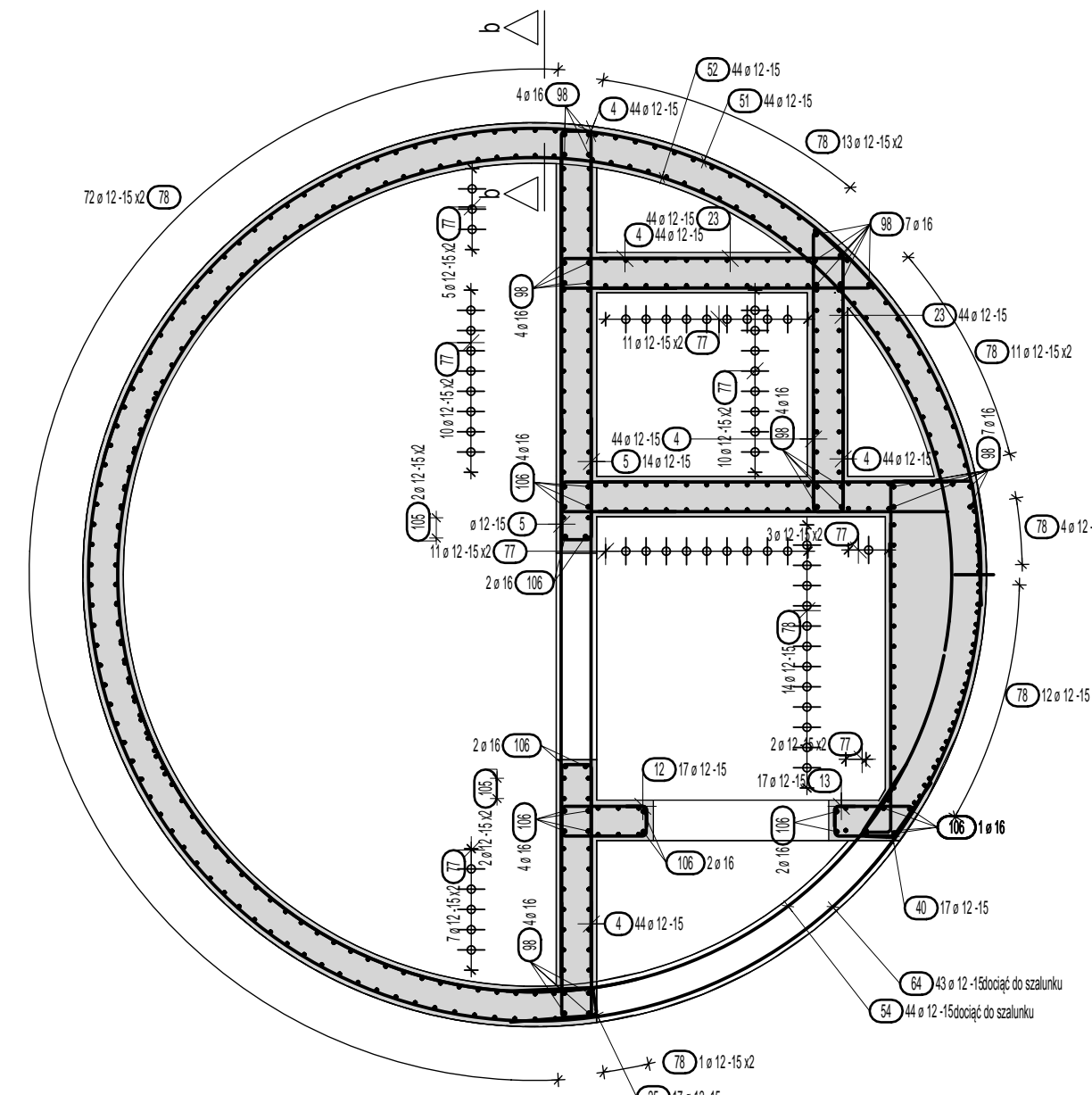
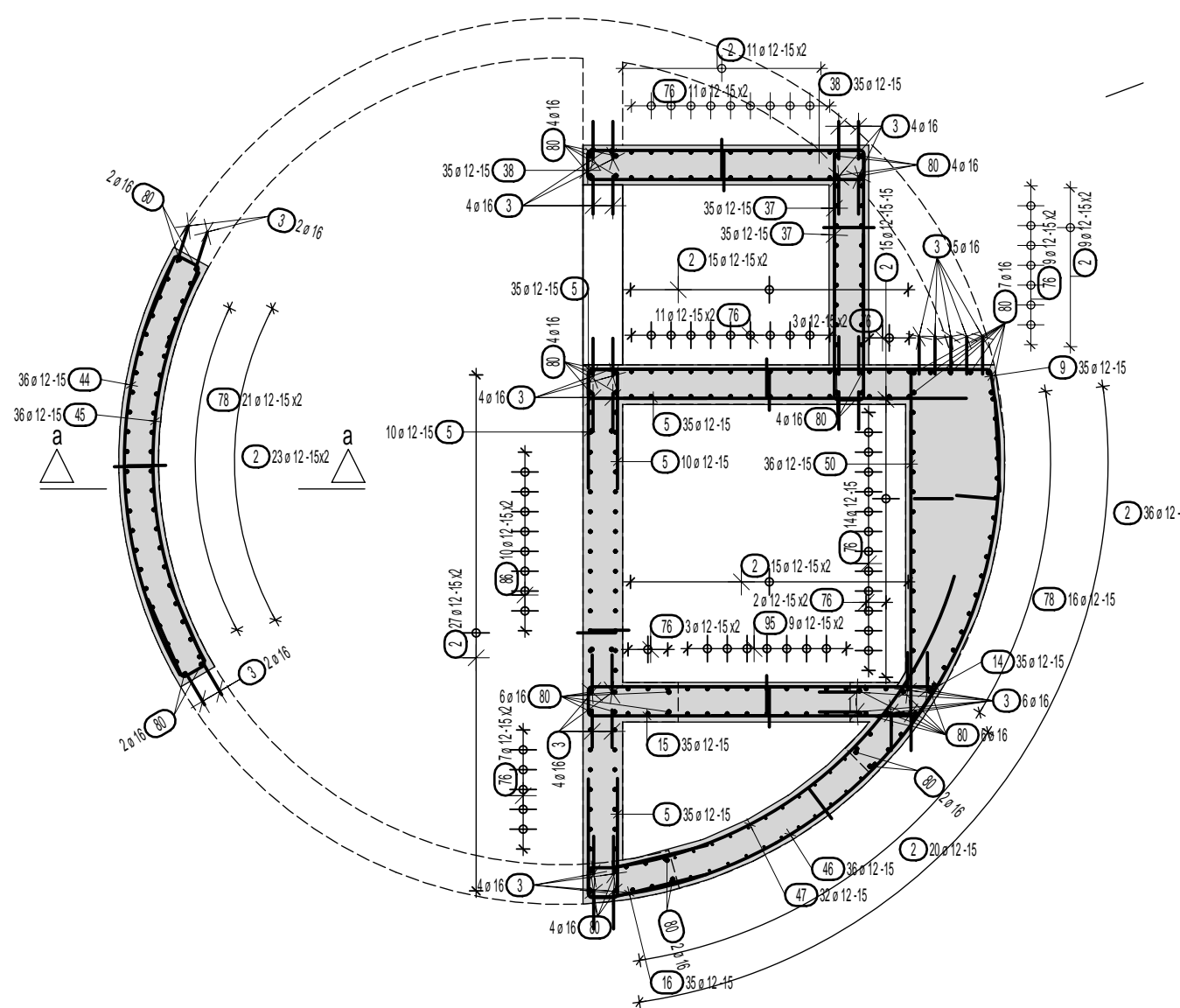


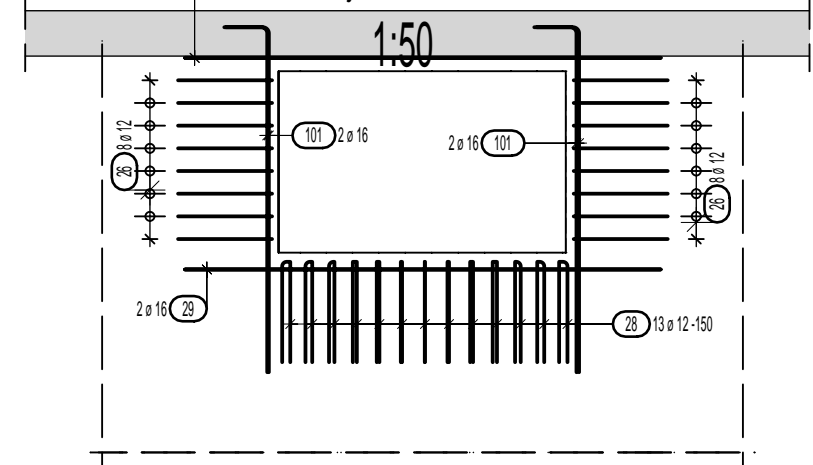
1:50



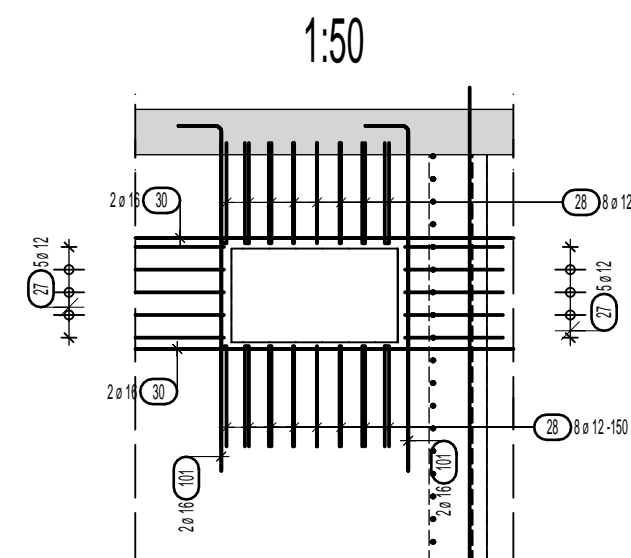
1:50



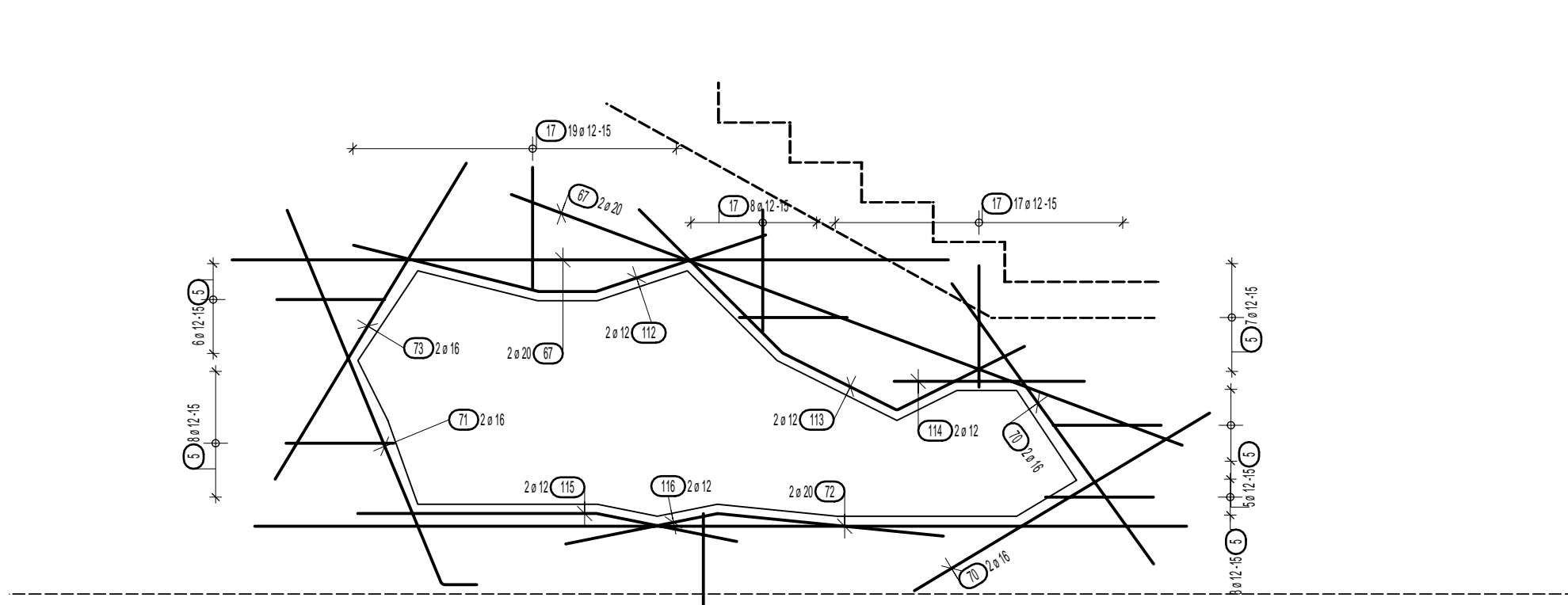
zbrojenie otworu



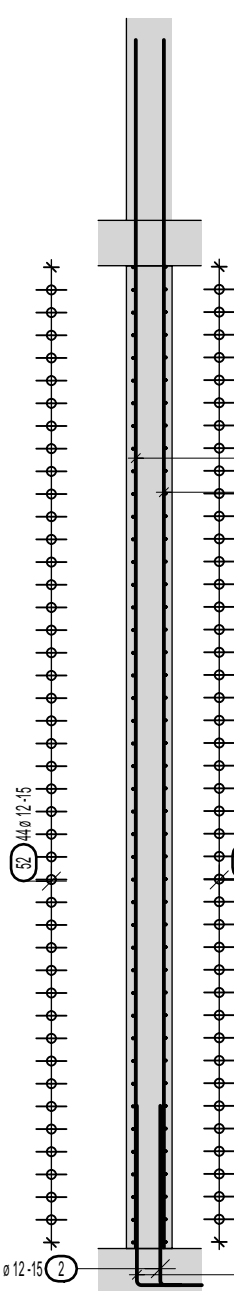
zbrojenie otworu



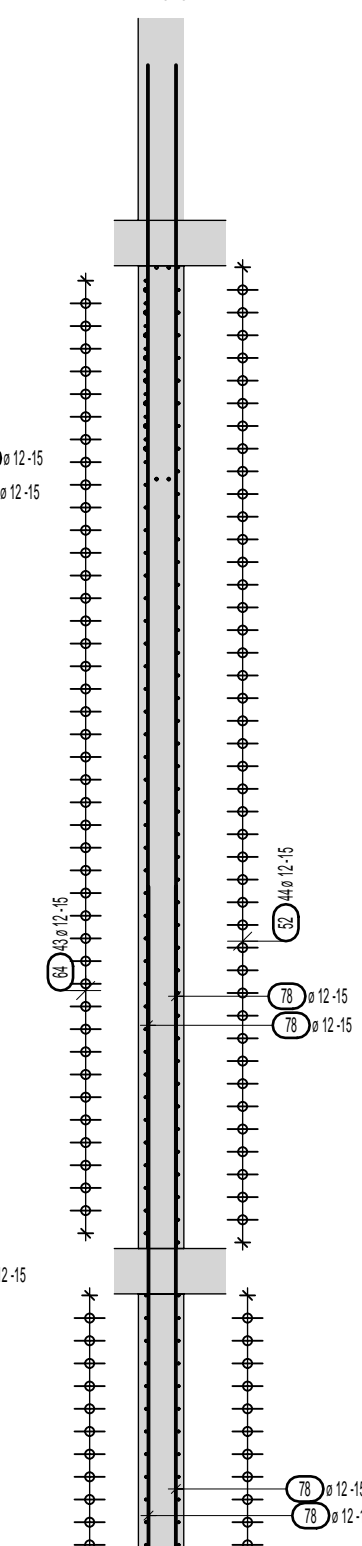
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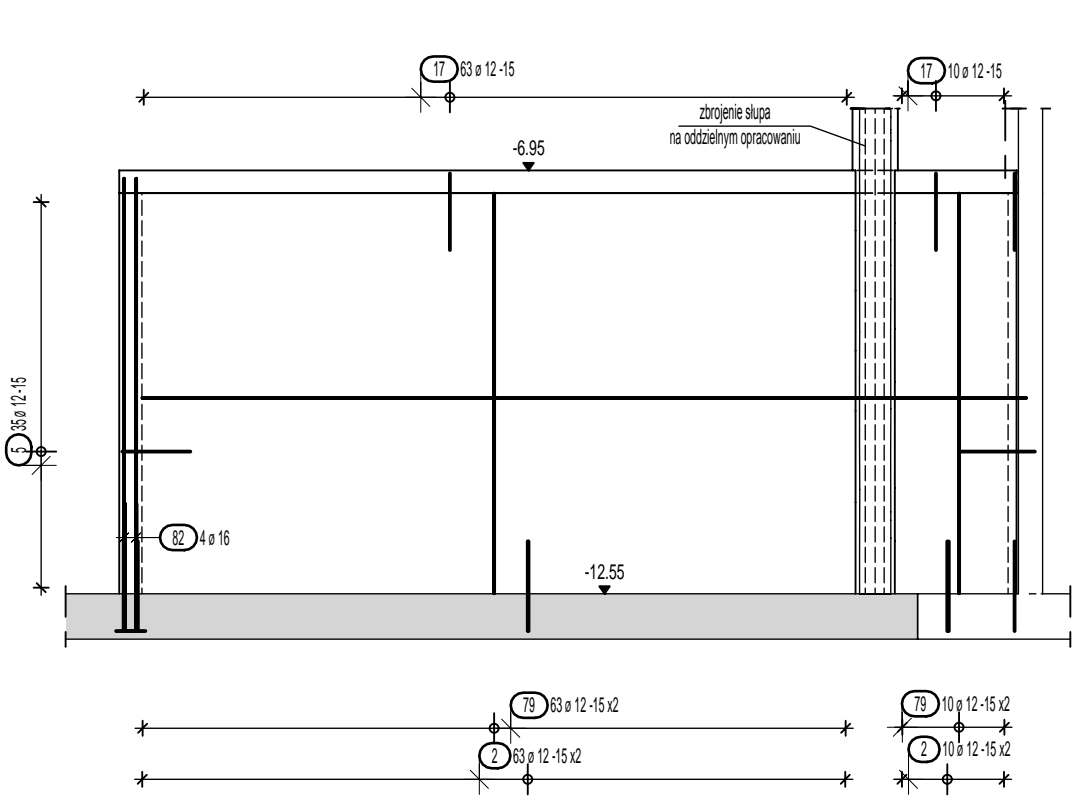
1:50



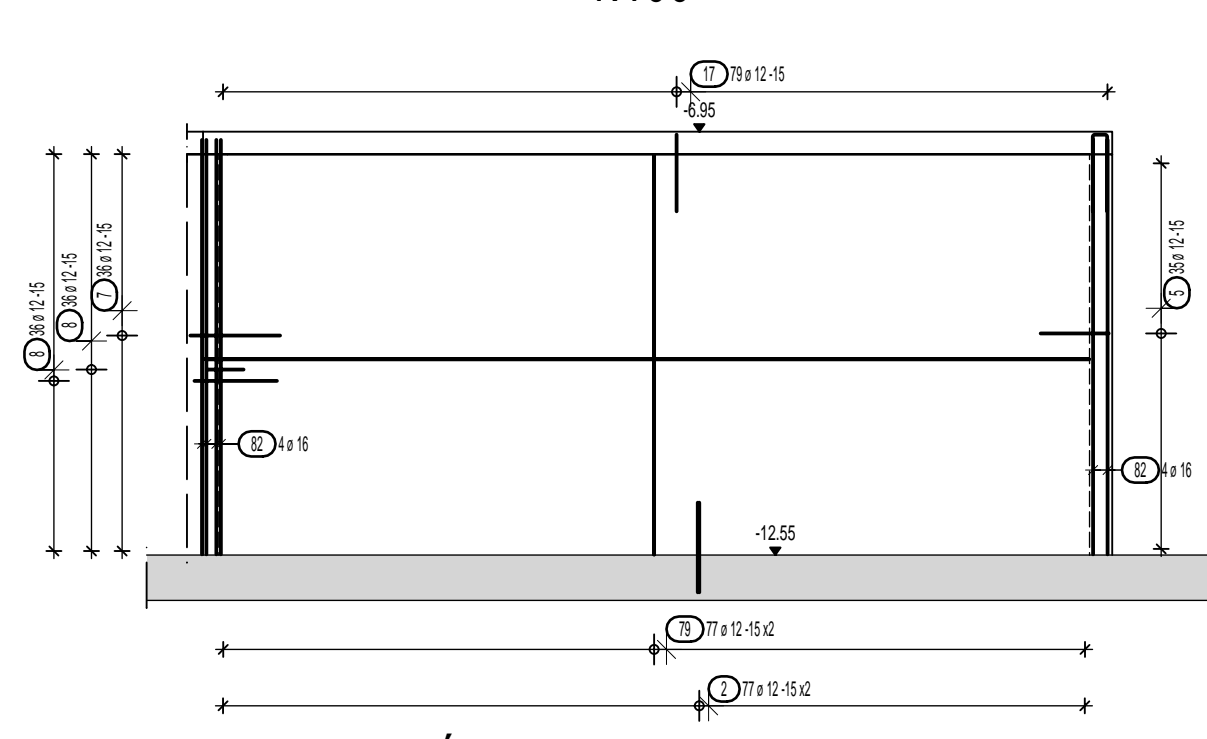
1:50



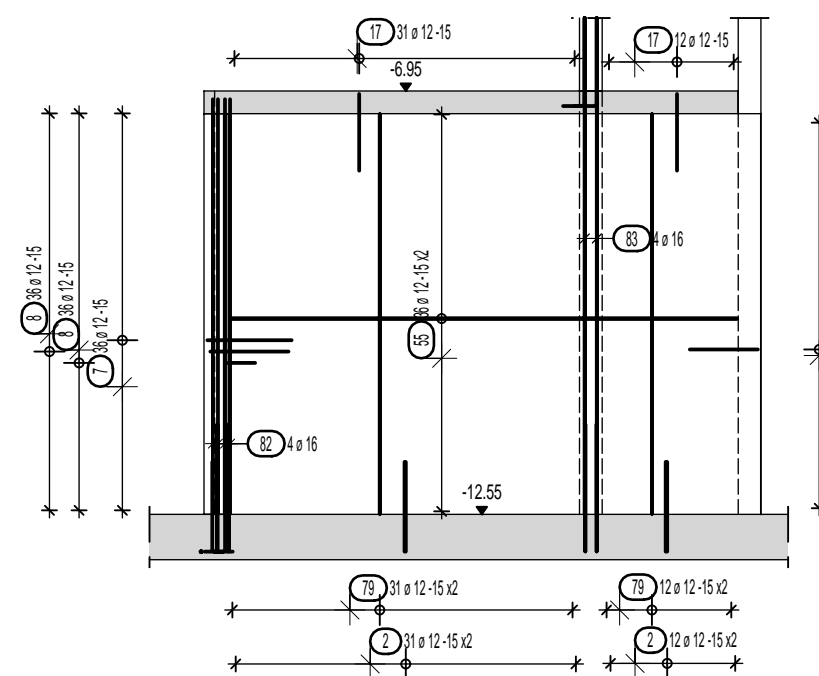
1:100



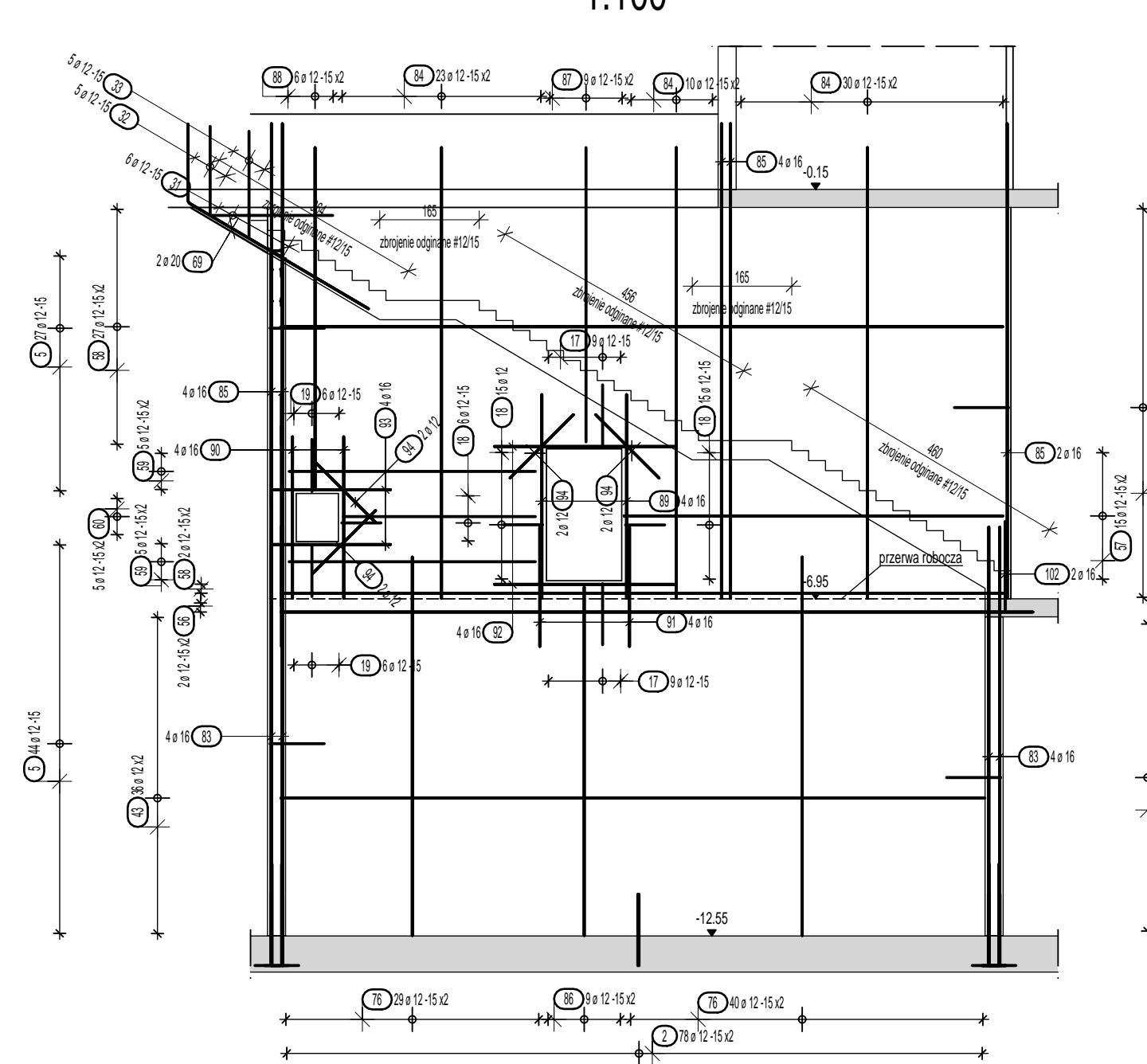
1:100



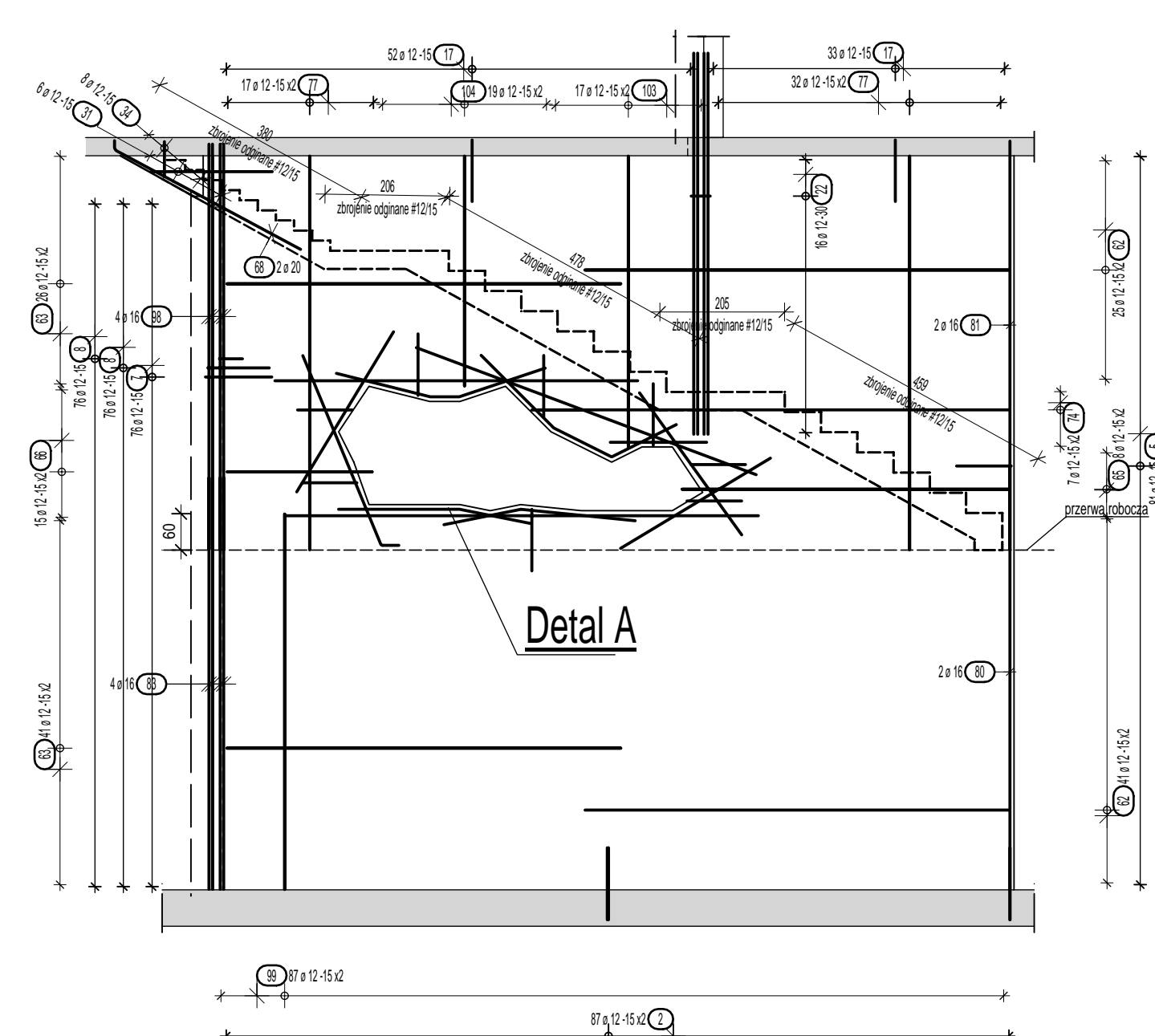
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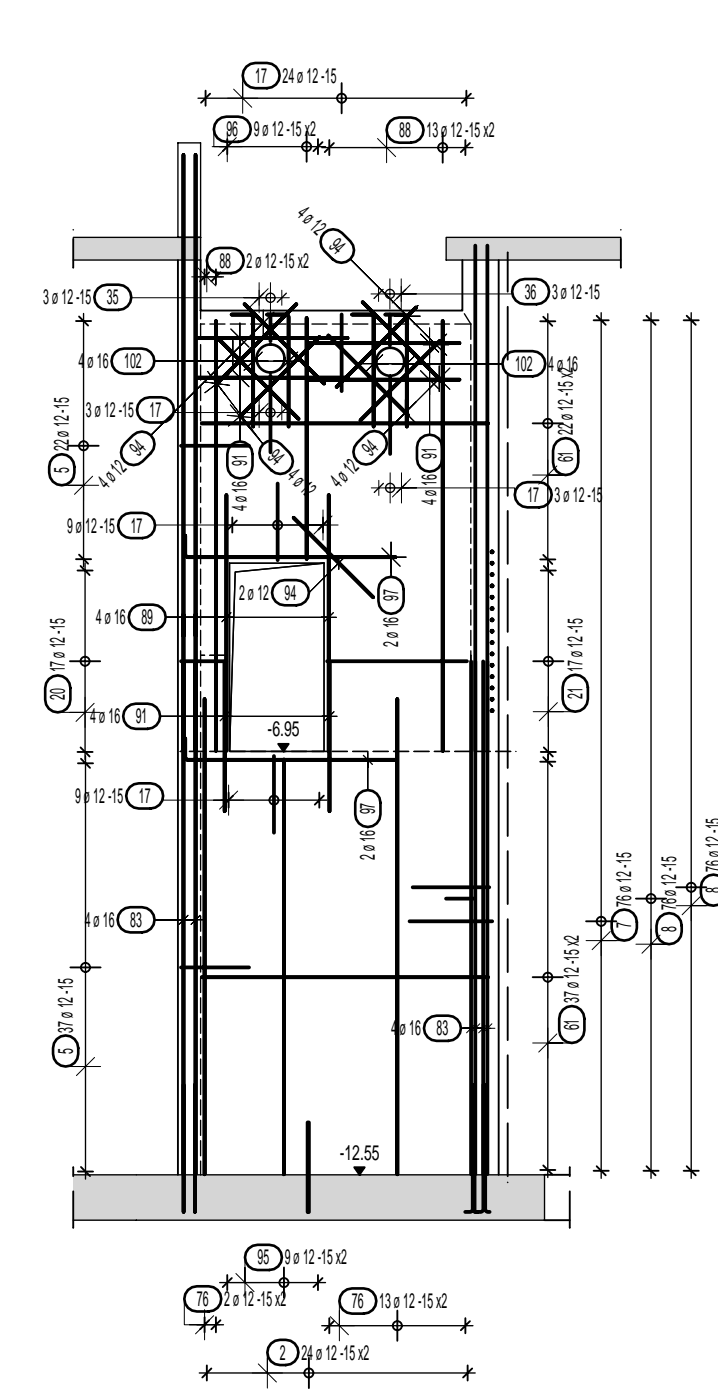
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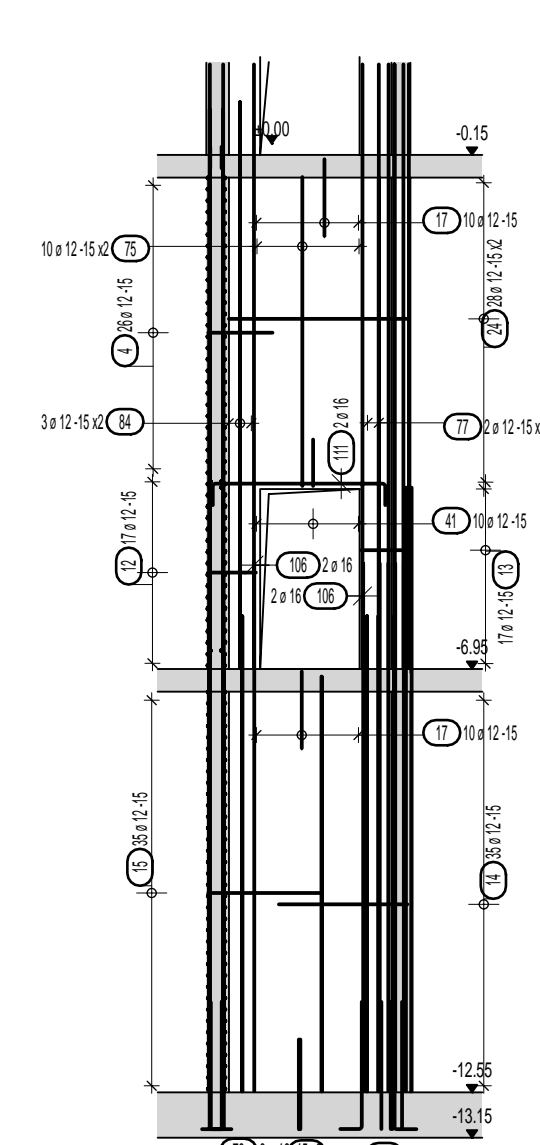
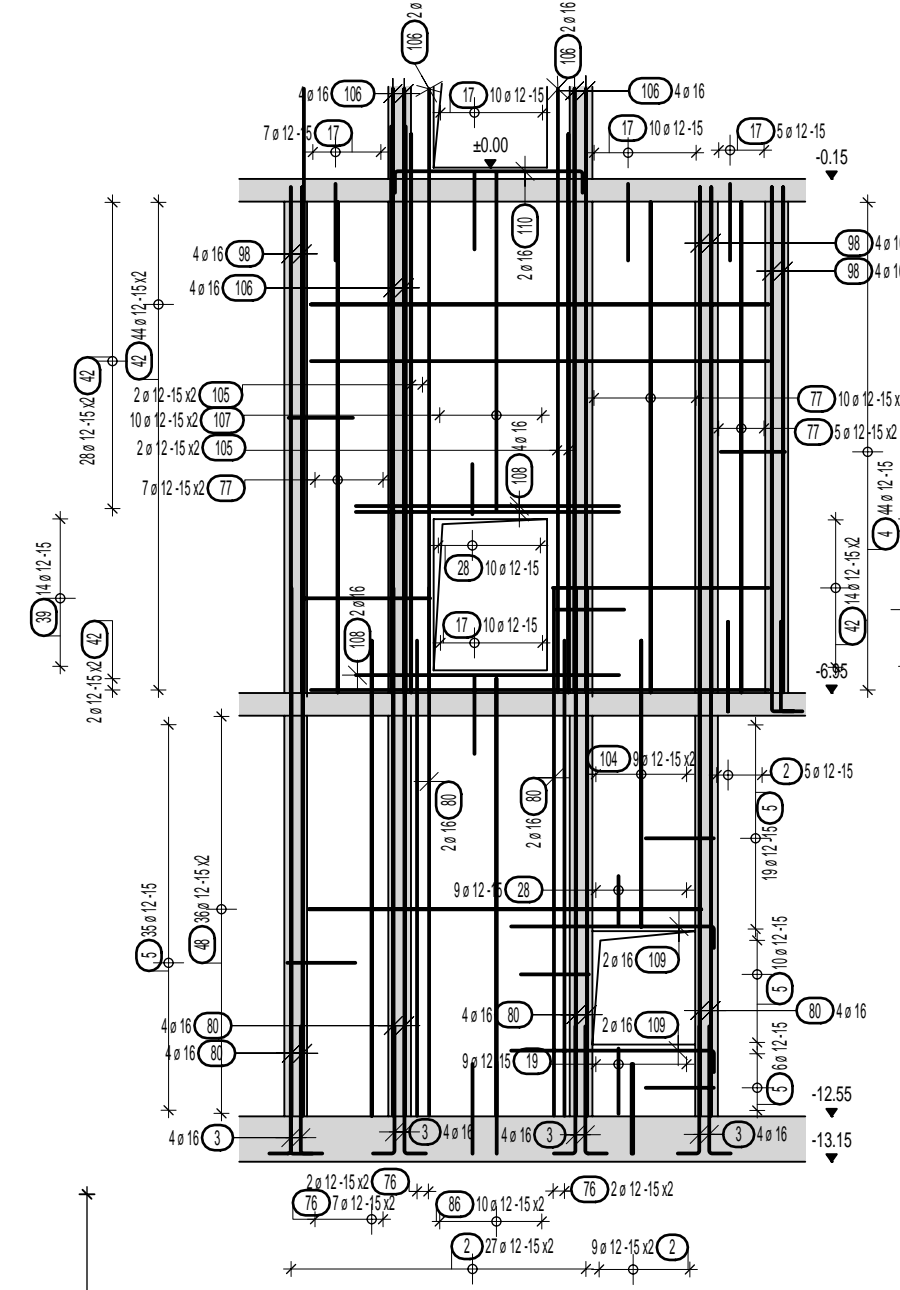
1:100



1:100



1:100



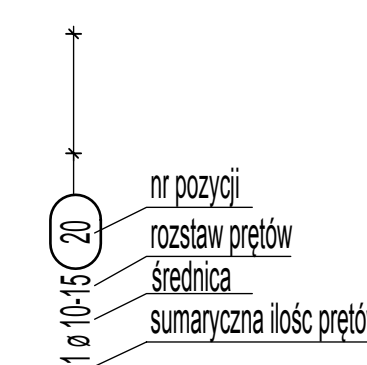
Lista prętów - kształty gięcia

Diagram	Original name	Original code	Original group	Original category	Value
	120	1.20		40.20	30.00
	121	1.21		100.00	100.00
	122	1.22		120.00	160.00
	123	1.23		470.00	620.00
	124	1.24		1110.00	1680.00
	125	1.25		70.00	80.00
	126	1.26		220.00	1500.00
	127	1.27		200.00	250.00
	128	1.28		100.00	1710.00
	129	1.29		50.00	45.00
	130	1.30		50.00	45.00
	131	1.31		50.00	21.00
	132	1.32		50.00	27.00
	133	1.33		120.00	120.00
	134	1.34		110.00	103.00
	135	1.35		50.00	60.00
	136	1.36		1400.00	1000.00
	137	1.37		50.00	40.00
	138	1.38		50.00	30.00
	139	1.39		50.00	30.00
	140	1.40		50.00	30.00
	141	1.41		50.00	30.00
	142	1.42		50.00	30.00
	143	1.43		50.00	30.00
	144	1.44		50.00	30.00
	145	1.45		50.00	30.00
	146	1.46		50.00	30.00
	147	1.47		50.00	30.00
	148	1.48		50.00	30.00
	149	1.49		50.00	30.00
	150	1.50		50.00	30.00
	151	1.51		50.00	30.00
	152	1.52		50.00	30.00
	153	1.53		50.00	30.00
	154	1.54		50.00	30.00
	155	1.55		50.00	30.00
	156	1.56		50.00	30.00
	157	1.57		50.00	30.00
	158	1.58		50.00	30.00
	159	1.59		50.00	30.00
	160	1.60		50.00	30.00
	161	1.61		50.00	30.00
	162	1.62		50.00	30.00
	163	1.63		50.00	30.00
	164	1.64		50.00	30.00
	165	1.65		50.00	30.00
	166	1.66		50.00	30.00
	167	1.67		50.00	30.00
	168	1.68		50.00	30.00
	169	1.69		50.00	30.00
	170	1.70		50.00	30.00

Lista prętów - kształty gięcia

	Size	Sec	Q	Design	Modal shape (m/s steel)	Dynamic category (m/s)	Mass
18	12	5	0.5		120	442.4	422.27
18	4	5	1.0		120	800	84.4
5	10	5	0.5		120	150.0	10.12
18	12	5	1.0		120	688.0	288
18	10	5	1.0		120	41.80	8.01
18	12	5	2.0		410	10.0	14.1
18	10	5	2.0		380	488.4	388
18	12	5	3.0		380	400.0	400.0
18	10	5	3.0		380	370.0	370.0
18	12	5	0.05		60	190.0	190.0
18	12	5	0.05		60	452.0	452.0
18	10	5	0.05		60	86.0	76.1
18	10	5	0.05		60	73.0	66.0
18	10	5	0.05		60	21.0	20.0
18	7	5	0.5		30	7.42	0.00
18	7	5	0.5		30	0.42	0.20
18	7	5	0.5		30	11.85	10.1
18	7	5	0.5		30	7.44	1.00
18	7	5	0.5		30	15.88	10.1
18	7	5	0.5		30	6.4	0.0
18	7	5	0.5		30	148.8	10.1
18	7	5	0.5		30	150.8	137.0
18	7	5	0.5		30	1027.0	302.0
18	7	5	0.5		30	1028.0	304.0
18	7	5	0.5		30	2162.4	2011.4
18	7	5	0.5		30	371.8	388.0
18	7	5	0.5		30	13.0	21.0
18	7	5	0.5		30	44.0	88.0
18	7	5	0.5		30	81.8	168.0
18	7	5	0.5		30	390.0	370.0
18	7	5	0.5		30	243.0	274.0
18	7	5	0.5		440	44.2	30.0
18	7	5	0.5		440	238.4	270.0
18	7	5	0.5		340	27.0	0.0
18	7	5	0.5		270	10.84	7.0
18	7	5	0.5		270	30.0	0.0
18	7	5	0.5		330	12.0	0.0
18	7	5	0.5		330	0.0	0.4
18	7	5	0.5		200	20.0	0.0
18	7	5	0.5		200	30.0	0.0
18	7	5	0.5		150	15.0	0.0
18	7	5	0.5		150	20.0	0.0
18	7	5	0.5		150	178.0	175.0
18	7	5	0.5		150	17.80	1.0
18	7	5	0.5		260	12.44	0.0
18	7	5	0.5		260	227.8	288.0
18	7	5	0.5		60	1078.0	1073.0
18	7	5	0.5		60	20.0	0.0
18	7	5	0.5		250	23.0	0.0
18	7	5	0.5		150	16.0	0.0
18	7	5	0.5		440	160.0	144.0
18	7	5	0.5		380	112.0	100.0
18	7	5	0.5		340	59.0	52.0
18	7	5	0.5		40	40.0	30.0
18	7	5	0.5		30	21.0	10.0
18	7	5	0.5		30	12.0	0.0
18	7	5	0.5		270	6.0	0.0
18	7	5	0.5		250	5.0	0.0
18	7	5	0.5		250	7.0	0.0
18	7	5	0.5		150	3.0	2.0
18	7	5	0.5		150	6.4	0.0
18	7	5	0.5		150	6.4	0.0
18	7	5	0.5		150	106.0	101.0

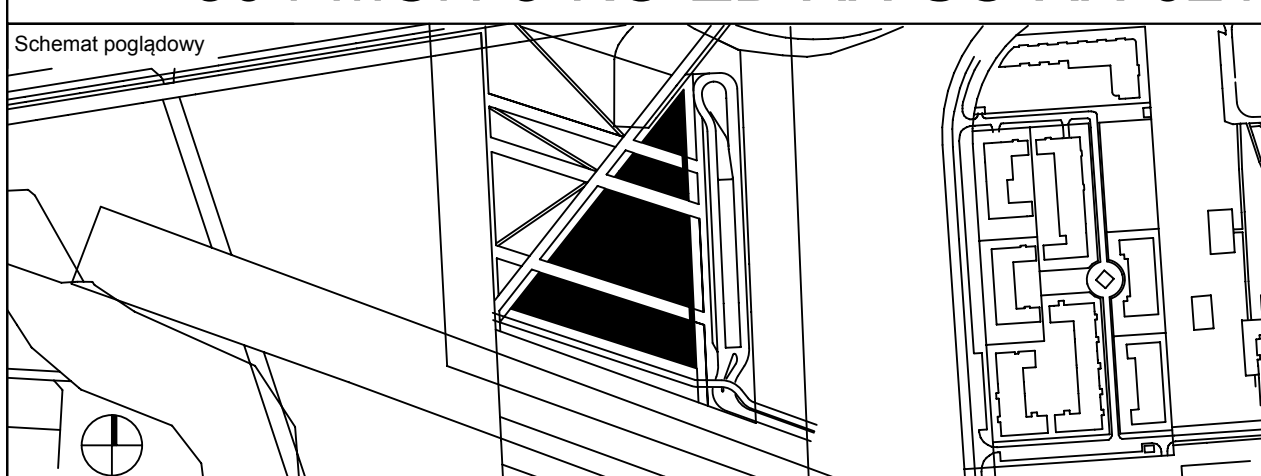
LEGENDA:
Opis rozkładu prętów



Wymiary prętów mierzone
po obrysie zewnętrznym

UWAGI:
-beton: C30/37
-stal: $f_{yk}=500\text{MPa}$, klasa ciągliwości B, wg PN-EN 1992-1-1
-otulina: 3,5cm

Numer rysunku
304-MCN-3-KO-ZB-XX-SC-XX-021



Projekt
Budowa budynku Małopolskiego Centrum Nauki Cogiteon wraz z garażem podziemnym, wewnętrznymi instalacjami, przyłączami, instalacjami zewnętrznymi, przebudową kd, a także wraz z infrastrukturą komunikacyjną, budowę miejsc postojowych oraz z zagospodarowaniem terenu.

Sodium PW			
Branża		PW/KO	
Konstrukcja			
Nazwa rysunku			
Zbroj. ściany W121, W115, W38, W44, W7, W26, W143-147			
Numer rysunku		Status	
304-MCN-3-KO-ZB-XX-SC-XX-021		W03	
Data wydania		Format	
03.2020		A0	
Skala		Opracował	
1:100 / 1:50		ML	
304-MCN-3-KO-ZB-XX-SC-XX-021		Jednostka projektowa	
Inwestor		Heinle, Wischer und Partner Architektik Sp. z o.o.	
Małopolskie Centrum Nauki Cogiteon		Plac Solny 4/2 50-060 Wrocław tel. +48 71 37119600 fax +48 71 3719610 wroclaw@heinlewischerpartner.de	
ul. Lubelska 23 30-003 Kraków tel. +48 12 6188035 fax +48 12 6188038 biuro@cogiteon.pl			
Projektant		Podpis	
dr. inż. Andrzej Kowal ur. bud. nr 162/82/UW konstrukcyjna			
Sprawdzający		Podpis	
mgr inż. Anatol Najdek ur. bud. nr 1302/UW konstrukcyjna			

$$w/s = 841 / 1189 \text{ (1.00m}^2\text{)}$$

Allplan 201