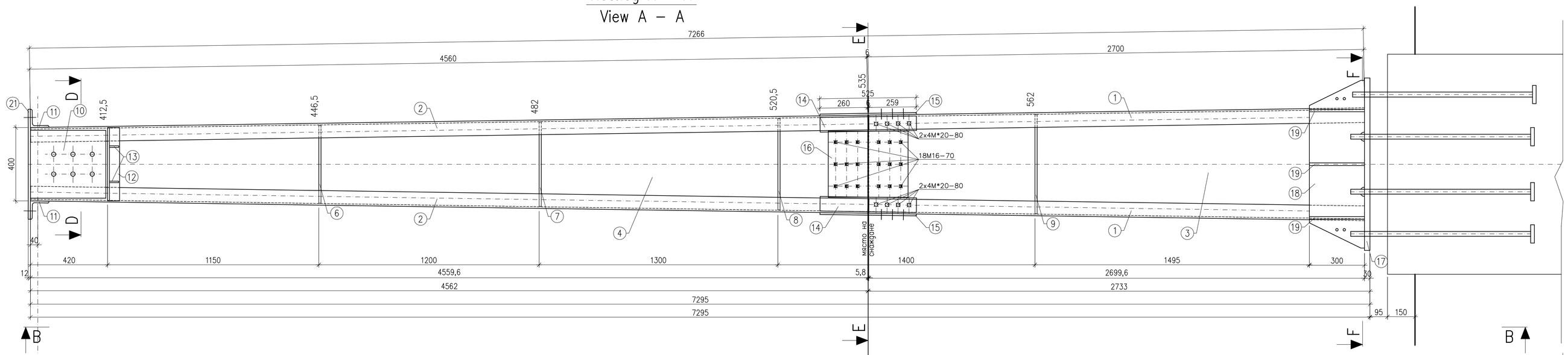
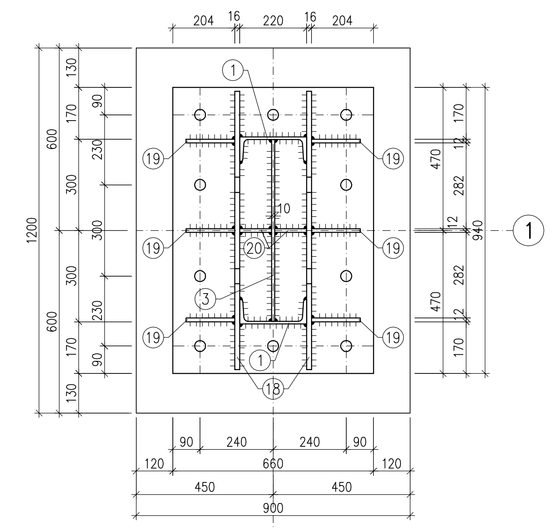
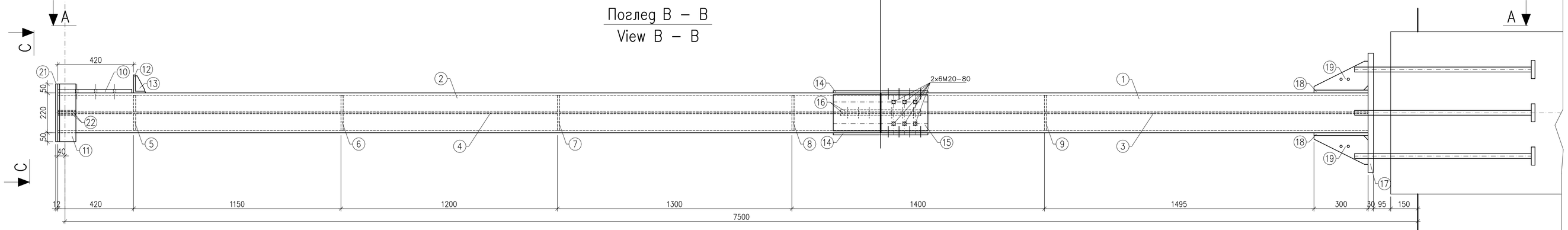
Поглед А – А
View A – A



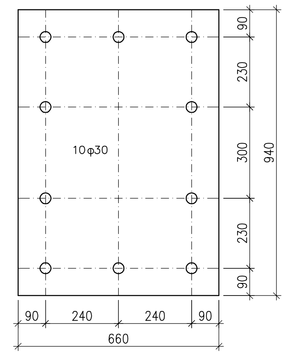
Разрез F –F
Section F – F



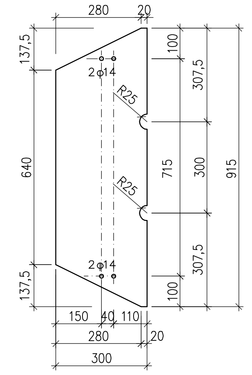
Поглед В – В
View B – B



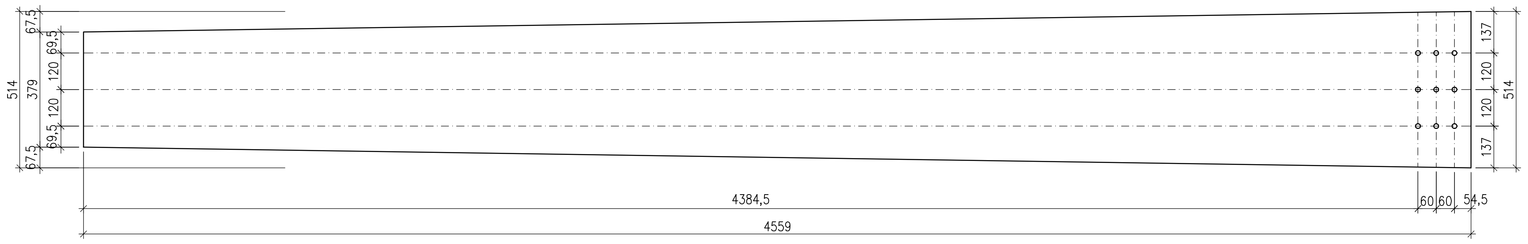
Позиция 17 – ⌀ 30
Position 17



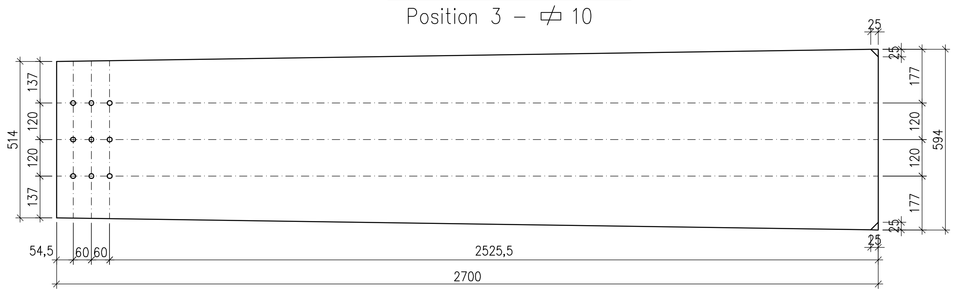
Позиция 18 – ⌀ 16
Position 18 – ⌀ 16



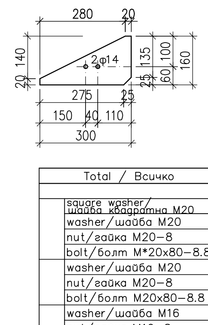
Позиции 4 – ⌀ 10
Position 4 – ⌀ 10



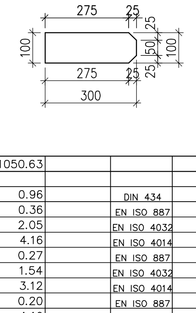
Позиции 3 – ⌀ 10
Position 3 – ⌀ 10



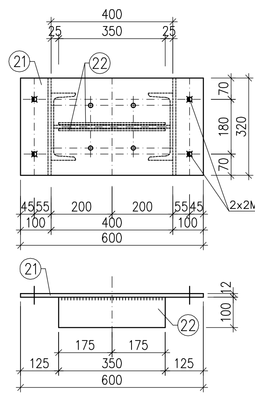
Позиция 19 – ⌀ 12
Position 19 – ⌀ 12



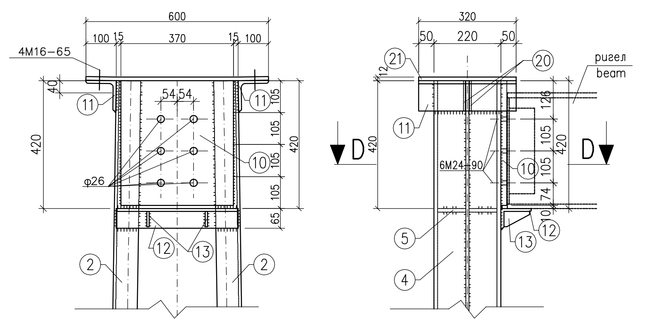
Позиция 20 – ⌀ 12
Position 20 – ⌀ 12



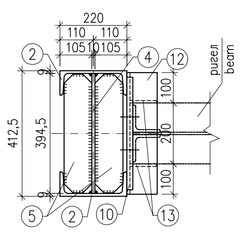
Разрез С – С
Section C – C



Детайл за окачване на ригела
Beam to the column fixing

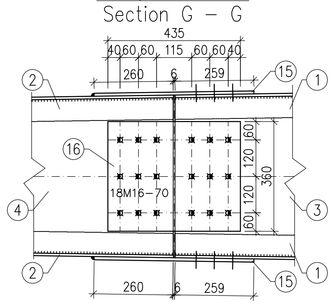


Разрез D – D
Section D – D

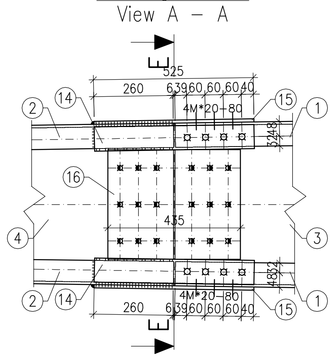


Снаждане на колоната
Column splicing

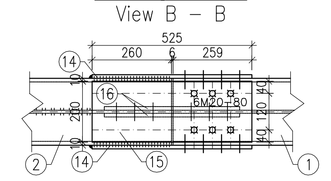
Разрез G – G
Section G – G



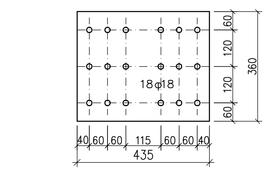
Поглед А – А
View A – A



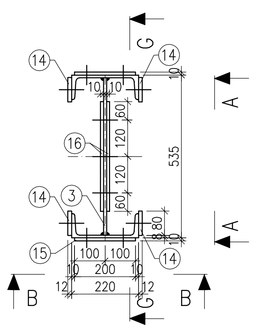
Поглед В – В
View B – B



Позиция 16– ⌀10
Position 16

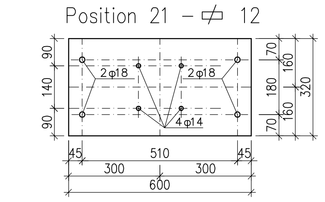


Разрез Е – Е
Section E – E

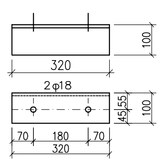


Позиция 1 – UPN 220
Position 1 – UPN 220

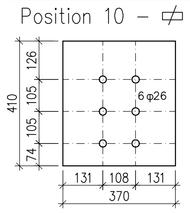
Позиция 21 – ⌀ 12
Position 21 – ⌀ 12



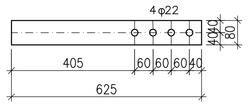
Позиция 11 – L100.100.10
Position 11 – L100.100.10



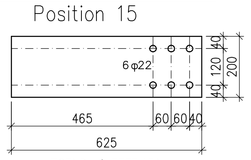
Позиция 10 – ⌀ 20
Position 10 – ⌀ 20



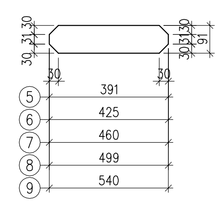
Позиция 14 – ⌀ 12
Position 14



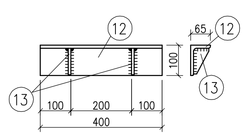
Позиция 15– ⌀ 10
Position 15



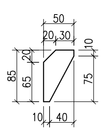
Позиции 5–9 – ⌀ 12
Positions 5–9 – ⌀ 12



Позиция 12 – L100.65.10
Position 12 – L100.65.10



Позиция 13 – ⌀ 8
Position 13 – ⌀ 8



LEGEND / ЛЕГЕНДА

✱	болт / bolt M12
✱	болт / bolt M16
✱	болт / bolt M20
✱	болт / bolt M24
✱	болт / bolt M27
XXXXX	weld assembly / монтажна заварка
IIIIIIIII	welding factory / заводска заварка

ЗАБЕЛЕЖКИ:

1. Преди монтажа всички стоманени конструкции да се почистят с телена четка от ръжда и отделните елементи да се поцинкават.
2. Всички заварки да се изпълнят от заварчици–паспортизиц с t=6мм и да се изчука шлака преди поцинковането.
   Крайщата на заваряваните детайли да се подготвят /фрезовет/ според изискванията на БДС 3112–72.
3. За всички елементи да се изпълни почистване и горещо поцинковане във ваня съгласно БДС EN ISO 1461 с дебелина на цинковото покритие 85 микрона.
4. За болтовете да се изпълни галваничнно поцинковане.
5. Болтовете се окомплектовят с 2 гайки и 1 шайба.
6. Болтовете означени с индекс М* се окомплектовят с 2 гайки, 1 шайба и 1 наклонена шайба.
7. Болтовете означени с индекс М** се окомплектовят с 2 гайки и и 2 наклонени шайби.
8. Да се извърши пробен монтаж в заводски условия.
9. Колоните се монтират върху фундамент F1

Notes:

1. Before installing all steel structures should be cleaned of the rust with a scraching brush and the individual elements should be galvanized.
2. Each welding should be performed by qualified welders.
   The weld must be 6mm in thikness.
   Clean the slag before zinc–coating.
   The ends of welded parts to be prepared according to the requirements of BDS 3112–72.
3. For every element should be done – cleaning and hot dip galvanized in. bathtubs thickness of the zinc coating 85 microns.
4. All bolts shall be galvanized.
5. Bolts are assembled with 2 nuts and 1 washer.
6. Bolts indicated by index M* should be assembled with 2 nuts, 1 washer and 1 inclined washer.
7. Bolts indicated by index M** should be assembled with 2 nuts and 2 inclined washer.
8. It should be done a trail installation in work conditions.
9. Columns are mounted on foundation F1

	Total / Всичко				1050.63		
	square washer / шайба квадратна M20	16	0.06	0.96		DIN 434	
	washer/шайба M20	16	0.022	0.36		EN ISO 887	
	nut/гайка M20–8	32	0.064	2.05		EN ISO 4032	
	bolt/болт M*20x80–8.8	16	0.26	4.16		EN ISO 4014	
	washer/шайба M20	12	0.022	0.27		EN ISO 887	
	nut/гайка M20–8	24	0.064	1.54		EN ISO 4032	
	bolt/болт M20x80–8.8	12	0.26	3.12		EN ISO 4014	
	washer/шайба M16	18	0.011	0.20		EN ISO 887	
	nut/гайка M16–8	36	0.033	1.19		EN ISO 4032	
	bolt/болт M16x70–8.8	18	0.14	2.52		EN ISO 4014	
	washer/шайба M16	4	0.011	0.05		EN ISO 887	
	nut/гайка M16–8	8	0.033	0.27		EN ISO 4032	
	bolt/болт M16x65–8.8	4	0.132	0.53		EN ISO 4014	
23	electrodes/електроди E 42 5B 42 H5			19.79		EN ISO 2560	
22	⌀ 6x100	350	2	1.65	3.30	S235JRG2	EN 10056
21	⌀12x320	600	1	18.09	18.09	S235JRG2	EN 10056
20	⌀ 12x100	300	2	2.83	5.66	S235JRG2	EN 10056
19	⌀ 12x160	300	6	4.52	27.12	S235JRG2	EN 10056
18	⌀ 16x300	915	2	34.48	68.96	S235JRG2	EN 10056
17	⌀ 30x660	940	1	146.11	146.11	S355JRG2	EN 10056
16	⌀ 10x360	435	2	12.30	24.60	S235JRG2	EN 10056
15	⌀ 10x200	625	2	9.82	19.64	S235JRG2	EN 10056
14	⌀ 12x80	625	4	4.71	18.84	S235JRG2	EN 10056
13	⌀ 8x50	85	2	0.27	0.54	S235JRG2	EN 10056
12	L 100.65.10	400	1	4.92	4.92	S235JRG2	EN 10056
11	L 100.100.10	320	2	4.80	9.60	S235JRG2	EN 10056
10	⌀ 20x370	410	1	23.82	23.82	S235JRG2	EN 10051
9	⌀ 12x91	540	2	4.63	9.26	S235JRG2	EN 10051
8	⌀ 12x91	499	2	4.28	8.56	S235JRG2	EN 10051
7	⌀ 12x91	460	2	3.95	7.90	S235JRG2	EN 10051
6	⌀ 12x91	425	2	3.65	7.30	S235JRG2	EN 10051
5	⌀ 12x91	391	2	3.36	6.72	S235JRG2	EN 10051
4	⌀ 10x514	4559	1	183.95	183.95	S235JRG2	EN 10051
3	⌀ 10x594	2700	1	125.90	125.90	S235JRG2	EN 10051
2	UPN 220	4560	2	134.07	134.07	S235JRG2	EN 10025
1	UPN 220	2700	2	79.38	158.76	S235JRG2	EN 10025
position позиция	section сечение	length дължина mm	pcs бр.	за 1 бр. weight – kg маса – kg	общо weight – kg маса – kg	steel стомана	standard стандарт	note забележка

СЪГЛАСУВАЛИ		
Части	Име	Подпис
Технология (Първична комутация)	инж. Пандиев	
Технология (Вторична комутация)	инж. Гъмбова	
Геодезия	инж. Бакиев	
ПБЗ	инж. Годорова	
Пожарна безопасност	инж. Годорова	
Възложител		

EL-TEST

Договор No.: 4028/2017
Contract No.: 4028/2017

Клиент: "ЕВН България Електроразпределение" ЕАД
Customer: EVN Bulgaria

Обект: Подстанция 110/20kV "Пълто", гр.Пловдив
Object: Substation 110/20kV "Loutsi", Plovdiv

Подобект: Ново изходно поле в ОРУ 110kV
Subobject: New outgoing feeder 110kV

Ръководен проект: –
Project Manager: –

Ръдъ: А3
Section: A3

Том: 1
Part: 1

Date 06.2019
Drawn Koteva
Designer Koteva
Approved Todorova
Format A0
Ред: работен проект
Phase: detailed design

Портал
Кройна (външна) колона – H=7.5м
Portal
External column – H=7,5m

No. 013

Част: Строително–конструктивна
Part: Civil work

Sheet 1 / 1

Мащаб: 1:10
Scale:

Име на файла: 463 03W 013 01 0 – F
Filename:

Ред: Row:	Забележка Remarks	Дата Date	Име Name
–	–	–	–

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