



PLANOS “PSFV SEBIS 1”

**Documento 5
PLANOS**

DRAWING LIST				
DWG NR.	SIZE	REV.	TITLE	DATE
00	A4	1	DRAWING LIST	12.07.12
01	A3	1	LOCATION PLAN	12.07.12
02	A3	1	SITE PLAN	12.07.12
03	A1	1	TOPOGRAPHIC PLAN	12.07.12
05	A3	1	FENCE DETAIL	12.07.12
07	A1	4	LAYOUT	11.07.12
11	A3	1	DC CONNECTION DETAIL	12.07.12
12	A3	1	JUNCTION BOX LEV. 1 EL. DIAGRAM	27.06.12
14	A3	1	JUNCTION BOX LEV. 2 EL. DIAGRAM	27.06.12
13A	A1	1	JB1 & STRING LOCATION & SECTION TS1	12.07.12
13B	A1	1	JB1 & STRING LOCATION & SECTION TS2	12.07.12
13D	A1	1	JB1 & STRING LOCATION & SECTION TS3	12.07.12
13D	A1	1	JB1 & STRING LOCATION & SECTION TS4	12.07.12
13E	A1	1	JB1 & STRING LOCATION & SECTION TS5	12.07.12
13F	A1	1	JB1 & STRING LOCATION & SECTION TS6	12.07.12
13G	A1	1	JB1 & STRING LOCATION & SECTION TS7	12.07.12
13H	A1	1	JB1 & STRING LOCATION & SECTION TS8	12.07.12
15A	A2	2	AUXILIARY SUPPLY - GENERAL SCHEME	11.07.12
15B	A4	2	AUXILIARY SUPPLY - MAIN PROT&METER	11.07.12
15C	A3	2	AUXILIARY SUPPLY - MAIN DIST. BOARD	11.07.12
15D	A3	2	AUXILIARY SUPPLY - CS DIST. BOARD	11.07.12
15E	A3	2	AUXILIARY SUPPLY - MC DIST. BOARD	11.07.12
15F	A2	2	AUXILIARY SUPPLY - TS DIST. BOARD	11.07.12
16	A1	1	LV EARTHING SYSTEM	28.06.12
17	A3	1	METEO STATION	12.07.12
18A	A1	3	LV SINGLE LINE DIAGRAM - TS1	12.07.12
18B	A1	3	LV SINGLE LINE DIAGRAM - TS2	12.07.12
18C	A1	3	LV SINGLE LINE DIAGRAM - TS3	12.07.12
18D	A1	3	LV SINGLE LINE DIAGRAM - TS4	12.07.12
18E	A1	3	LV SINGLE LINE DIAGRAM - TS5	12.07.12
18F	A1	3	LV SINGLE LINE DIAGRAM - TS6	12.07.12
18G	A1	3	LV SINGLE LINE DIAGRAM - TS7	12.07.12
18H	A1	3	LV SINGLE LINE DIAGRAM - TS8	12.07.12
19	A1	3	MV SINGLE LINE DIAGRAM	11.07.12
20A	A1	2	TRANSFORMER STATION - 1.250 kVA	12.07.12
20B	A1	2	TRANSFORMER STATION - 630 kVA	12.07.12
21	A2	1	COLLECTOR STATION	12.07.12
25	A2	1	MV EARTHING SYSTEM	28.06.12
31	A3	1	ROAD SECTION	12.07.12
32A	A2	2	TRENCH LAYOUT - TS1	12.07.12
32B	A2	2	TRENCH LAYOUT - TS2	12.07.12
32C	A2	2	TRENCH LAYOUT - TS3	12.07.12
32D	A2	2	TRENCH LAYOUT - TS4	12.07.12
32E	A2	2	TRENCH LAYOUT - TS5	12.07.12
32F	A2	2	TRENCH LAYOUT - TS6	12.07.12
32G	A2	2	TRENCH LAYOUT - TS7	12.07.12
32H	A2	2	TRENCH LAYOUT - TS8	12.07.12
32I	A2	2	TRENCH SECTIONS	12.07.12
34	A3	1	MODULE MOUNTING STRUCTURE	12.07.12
40	A0	1	DRAINAGE LAYOUT	12.07.12
41A	A2	1	DRAINAGE - DITCH DETAILS	12.07.12
41B	A1	1	DRAINAGE - PIPING DETAILS 1	12.07.12
41C	A1	1	DRAINAGE - PIPING DETAILS 2	12.07.12

REV.	DESCRIPTION	DRAWING	APP.	DATE
I	PROJ. REL.	JLB	JLB	12.07.12

DEVELOPER:

GPEM
FELIXE IV, 8 4TH FLOOR, MIAHO

PROJECT:

SEBIS I

DRAWING:

DRAWING LIST

LOCATION:

SEBIS - ROMANIA

PROJECT CODE:

I203A

EXECUTED PROJECT:

FORMAT:

A4

SCALE:

-

REFERENCE:

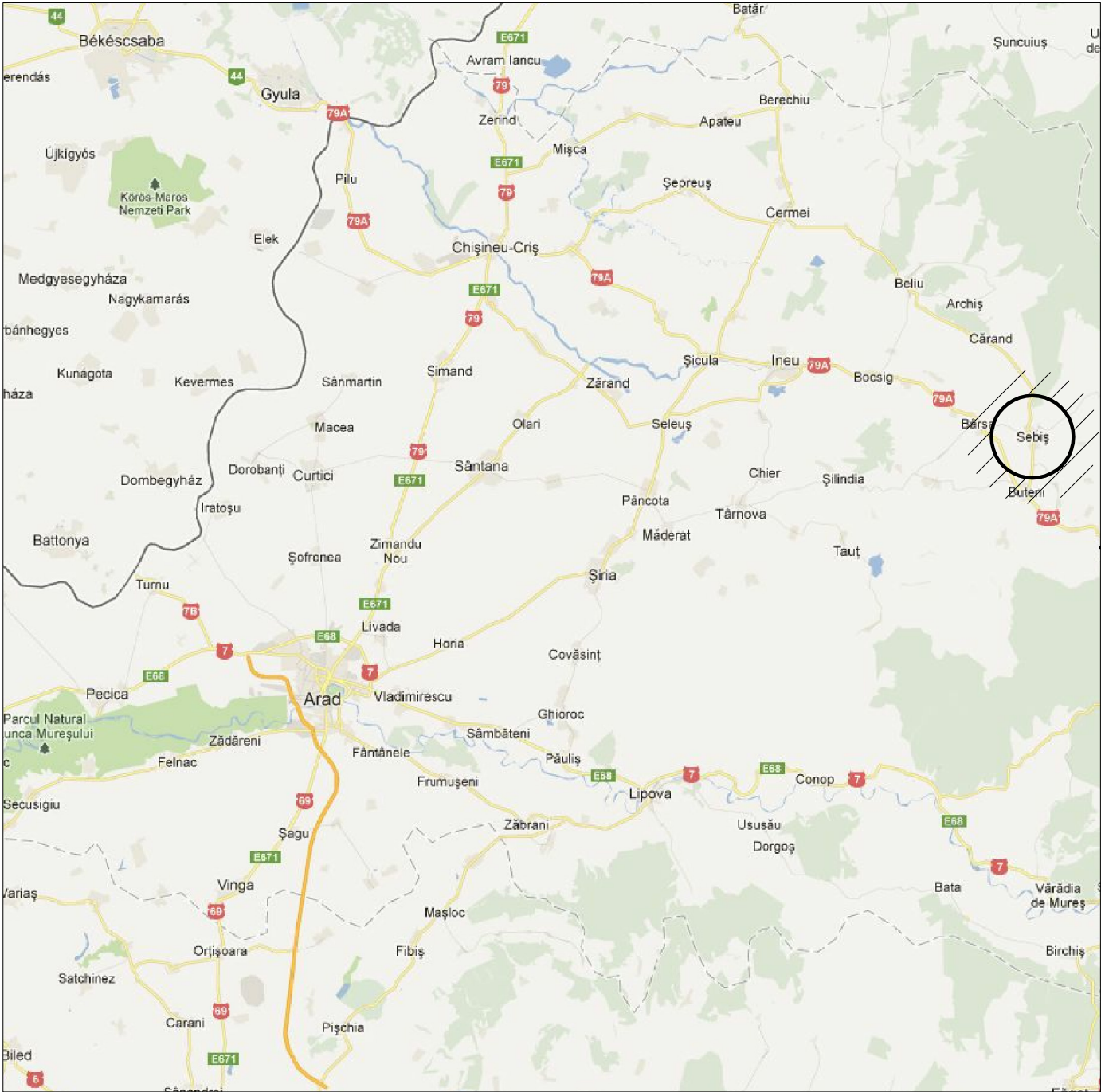
I203A

N° DRAWING:


00

REVIEW:

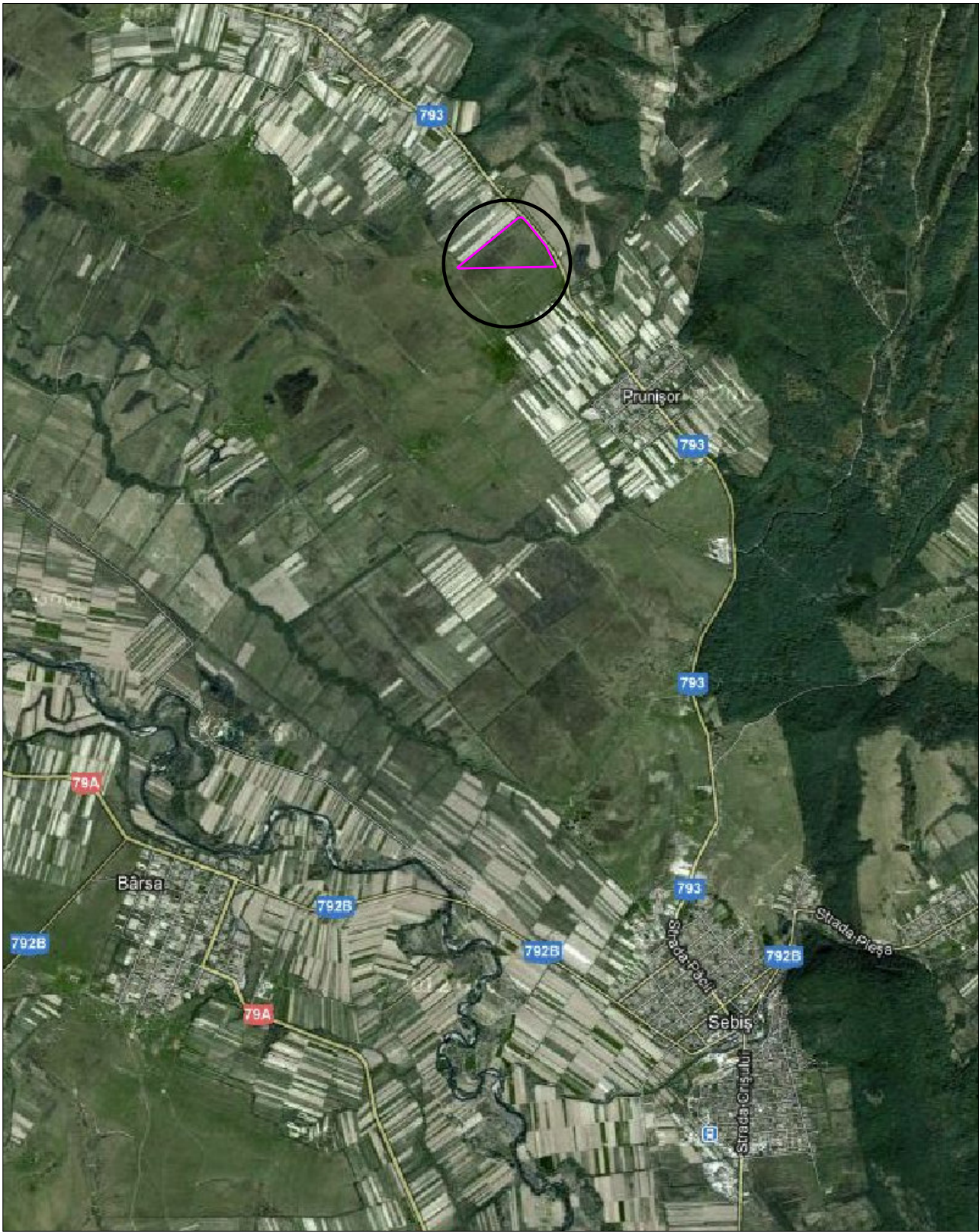
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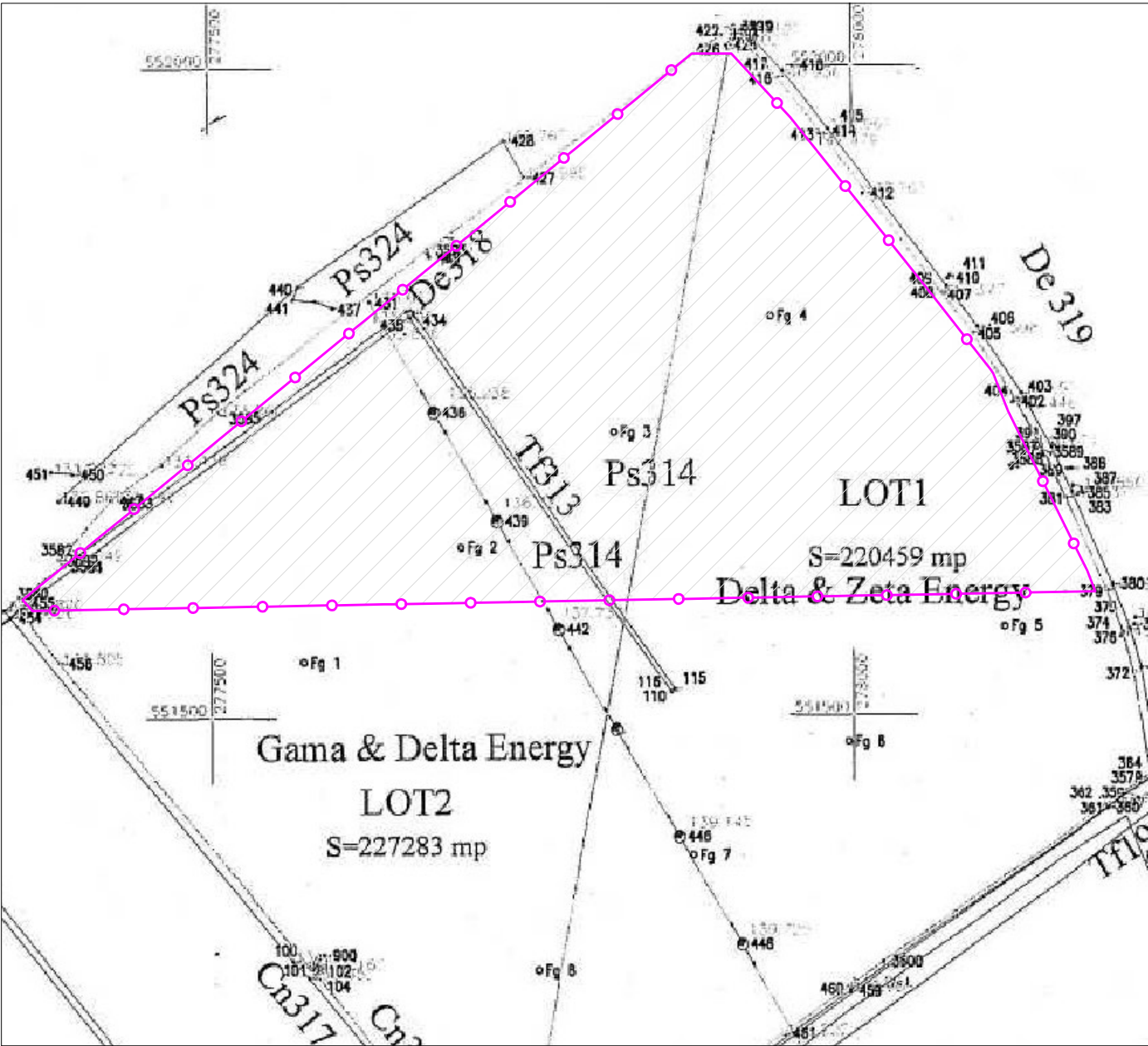
LAT: 46° 25' 37"
LON: 22° 6' 25"
Road DJ793 km 48,913
Satul: PRUNISOR
Municipiul: SEBIS
Judetul: ARAD

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	PROJ. REL.	JLB	JLB	12.07.12
DEVELOPER:				
				
GIPEN FELIXE BUI, 5th FLOOR, HARGHITA				

		PROJECT: SEBIS I		FORMAT: A3
DRAWING: LOCATION PLAN		LOCATION: SEBIS - ROMANIA		SCALE: -
PROJECT CODE: I203A		EXECUTED PROJECT:		REFERENCE: I203A
				HP DRAWING: 01
				REVIEW: 1





Scale
1:50.000



Scale
1:5.000

LAT: 46° 25' 37"
LON: 22° 6' 25"
Road DJ793 km 48,913
Satul: PRUNISOR
Municipiul: SEBIS
Judetul: ARAD

REV.	DESCRIPTION	DRAWN	APP.	DATE				
1	PROJ. REL.	JLB	JLB	12.07.12				
							FORMAT:	A3
					PROJECT: SEBIS I		SCALE:	-
DEVELOPER:					DRAWING: SITE PLAN		REFERENCE:	I203A
 GIPEN FELIXE BUI, 8 4TH FLOOR, MADRID							HP DRAWING:	02
					LOCATION: SEBIS - ROMANIA		REVIEW:	1
					PROJECT CODE: I203A		EXECUTED PROJECT:	

Est.	X	Y	Z
E1	585082.359	5142610.954	187.235
E2	585181.148	5142505.934	188.920
E3	585366.604	5142266.983	188.543
E4	585096.757	5142059.688	180.732
E5	584816.319	5141843.806	174.852
E6	585459.444	5142032.582	185.165
E7	585468.937	5142035.730	185.398
E8	586105.021	5141207.774	187.451
E9	586595.328	5139196.678	177.266
E10	586541.281	5137262.645	179.972
E11	586464.319	5136628.099	184.534
E12	585955.137	5136222.007	177.486
E13	586433.695	5135893.507	178.342
E14	586163.359	5135471.077	178.034
E15	586981.618	5134559.083	176.877
E16	586968.368	5134006.948	177.680
E17	586966.828	5133896.503	177.576
E18	586965.275	5133779.558	178.179

The map displays a topographic area with contour lines ranging from 172.50 to 187.50. A proposed fence line, labeled "FUTURE INSTALLATION FENCE", is shown in magenta with circular markers at each station. The fence line starts at the bottom left, runs horizontally across the middle, and then follows a diagonal path towards the top right. A legend in the top right corner provides the coordinates for each station (Est. 1 to 18) along the fence line. The coordinates are listed in a table with columns for Est., X, Y, and Z. The map also shows a "CEMENTERIO" (Cemetery) area in the upper right and a "PK 49 CRTA. 793" marker near the top right corner.

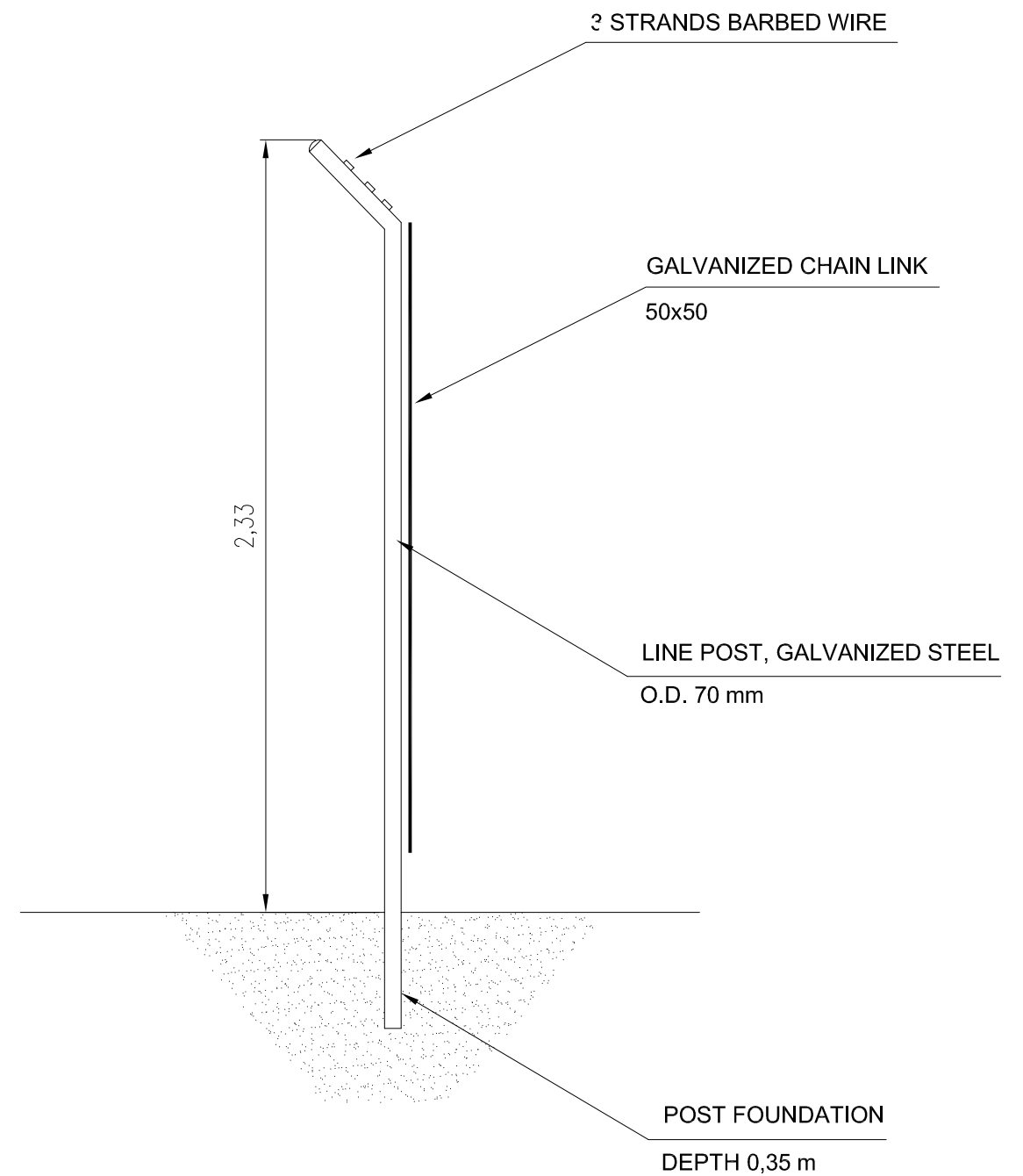
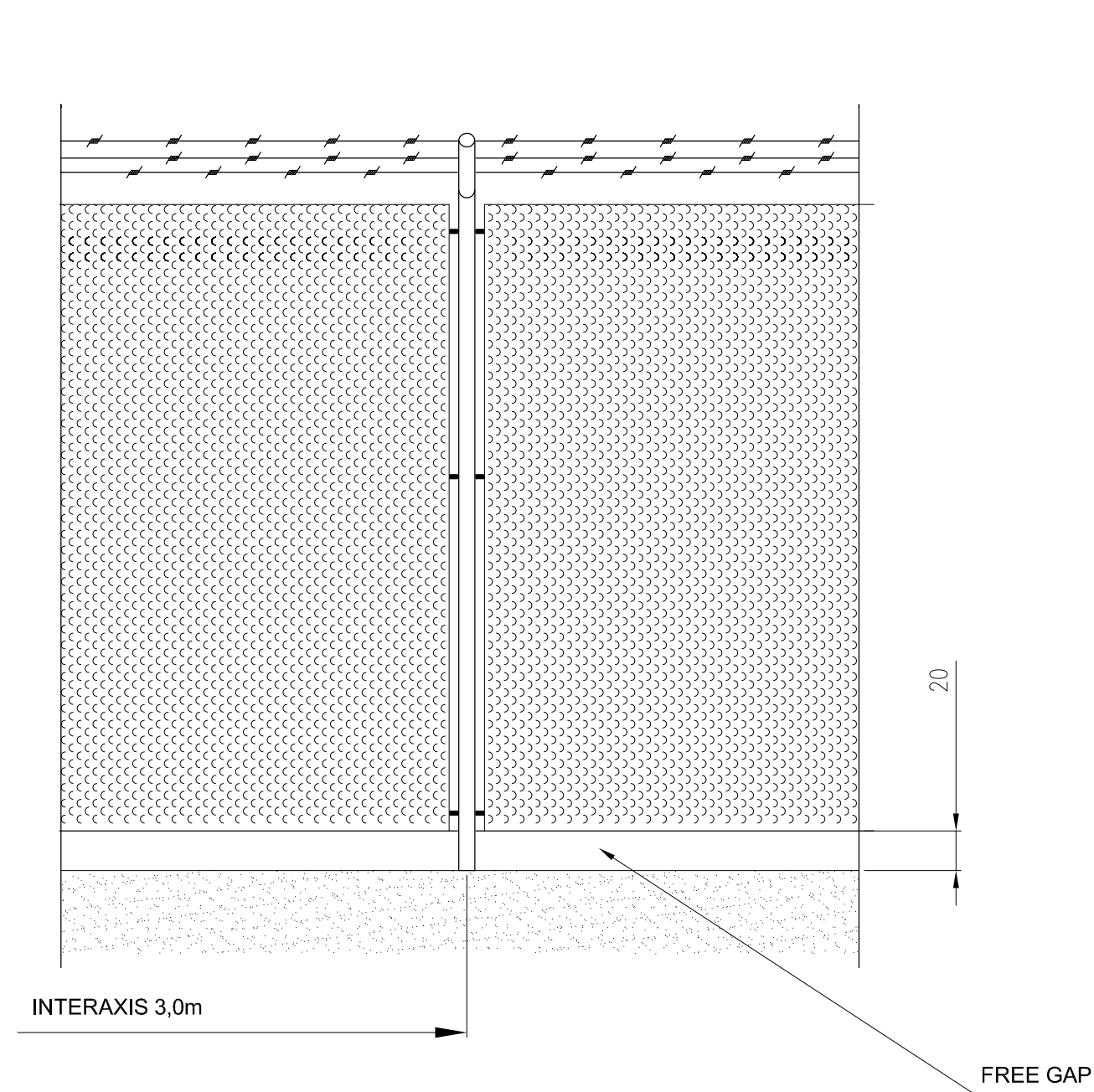
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E2	585181.148	5142505.934	188.92
E3	585366.604	5142266.983	188.54
E4	585096.757	5142059.468	180.73
E5	584816.319	5141843.806	174.85
E6	585459.444	5142032.582	185.16
E7	585468.937	5142035.730	185.39
E8	586105.021	5141207.774	187.45
E9	586595.328	5139196.078	177.26
E10	586541.281	5137262.645	179.97
E11	586464.319	5136628.099	184.53
E12	585955.137	5136222.007	177.48
E13	586433.695	5135893.507	178.34
E14	586163.359	5135471.077	178.03
E15	586981.618	5134559.083	176.87
E16	586968.368	5134006.948	177.68
E17	586966.828	5133896.503	177.57
E18	586965.275	5133779.558	178.17



Legend: FUTURE INSTALLATION FENCE

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REV.	DESCRIPTION	DRAWING	APP.	DATE		PROJECT: SEBIS I		FORMAT:
1	PROJ. REL.	JLB	JLB	12.07.12				A3
DEVELOPER:							REFERENCE:	
							I203A	
							HP DRAWING:	
					LOCATION: SEBIS - ROMANIA		REVIEW:	
							I	
					PROJECT CODE:	I203A	EXECUTED PROJECT:	

PHOTOVOLTAIC PLANT	AREA	PERIMETER
	202.800sq	2090m
INTERNAL ROADS	18820sq	3620m

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

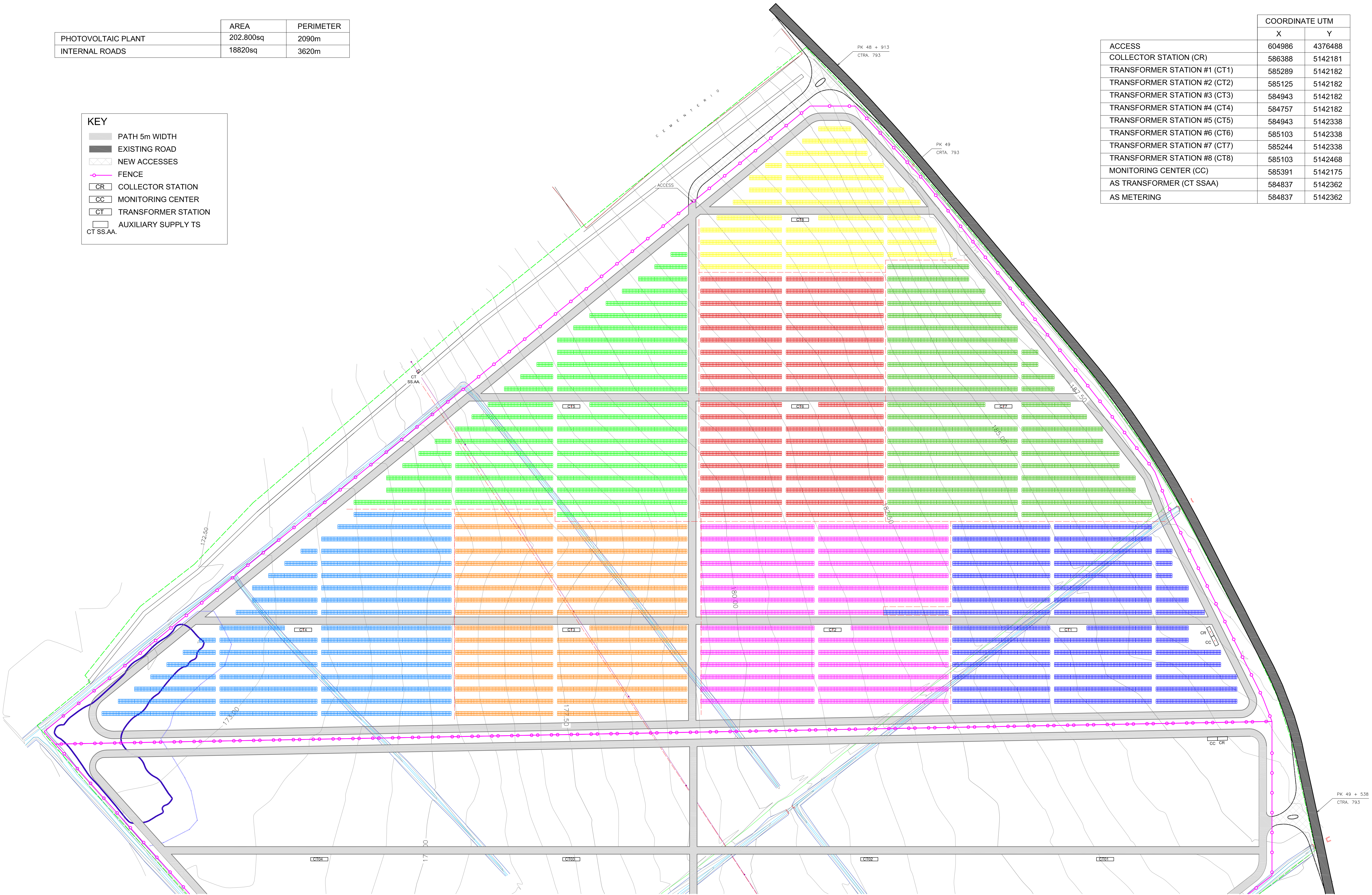
CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

	COORDINATE UTM	
	X	Y
ACCESS	604986	4376488
COLLECTOR STATION (CR)	586388	5142181
TRANSFORMER STATION #1 (CT1)	585289	5142182
TRANSFORMER STATION #2 (CT2)	585125	5142182
TRANSFORMER STATION #3 (CT3)	584943	5142182
TRANSFORMER STATION #4 (CT4)	584757	5142182
TRANSFORMER STATION #5 (CT5)	584943	5142338
TRANSFORMER STATION #6 (CT6)	585103	5142338
TRANSFORMER STATION #7 (CT7)	585244	5142338
TRANSFORMER STATION #8 (CT8)	585103	5142468
MONITORING CENTER (CC)	585391	5142175
AS TRANSFORMER (CT SSAA)	584837	5142362
AS METERING	584837	5142362



PEAK POWER: 8,77 MWp
1661 STRINGS WITH 22 CHINT 240 Wp IN SERIES
INVERTERS TOTAL POWER: 7,50 MW

REV.	DESCRIPTION	DATE	BY	CHECKED
1	INITIAL	11.08.2025	AL	
2	ACCESS	11.08.2025	AL	
3	PROD. REL.	11.08.2025	AL	
4	LOGO	11.08.2025	AL	

ibener

PROJECT:

SEBIS I

DRAWING:

LAYOUT

LOCATION:

SEBIS - ROMANIA

PROJECT CODE:

0203A

ANALYSIS PROJECT:

DEVELOPER:

GIPEN

SCALE:

1:1250

DATE:

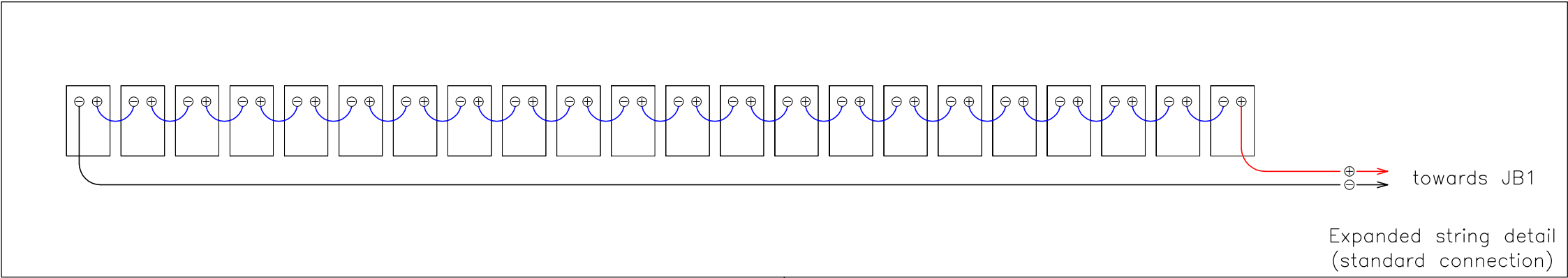
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BY:

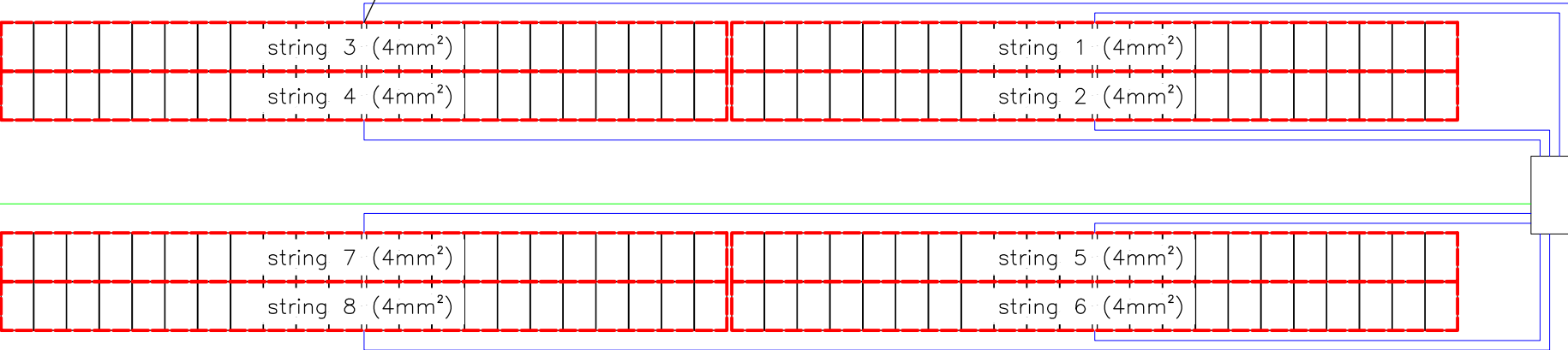
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VIEW:

4

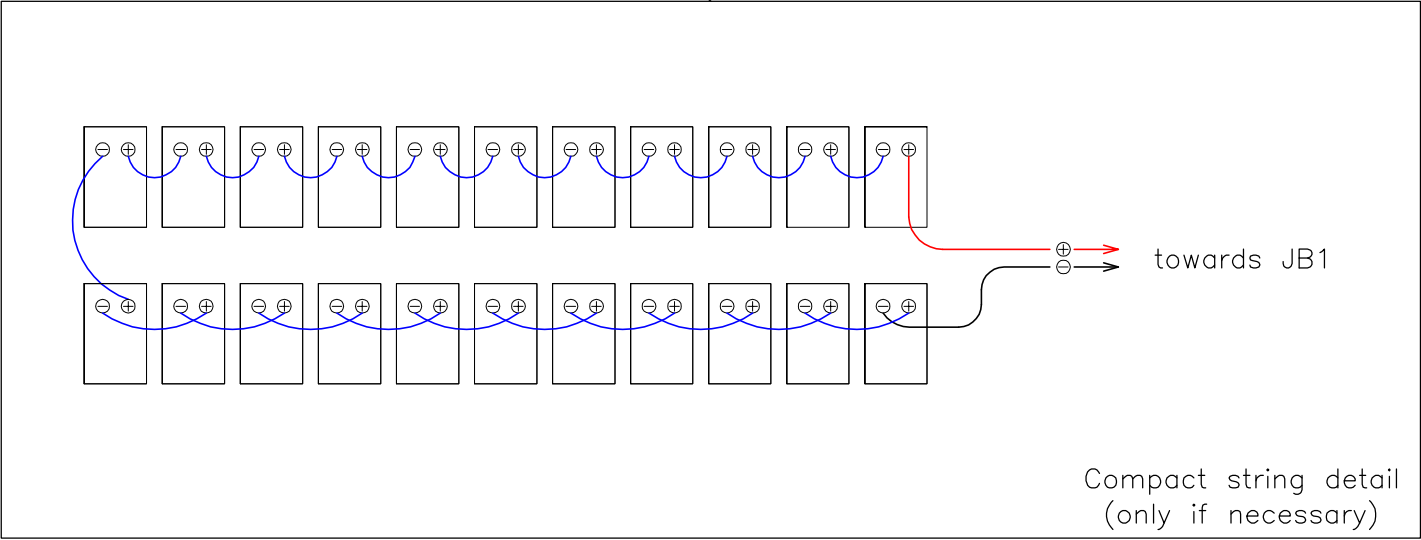


Expanded string detail
(standard connection)





JB1

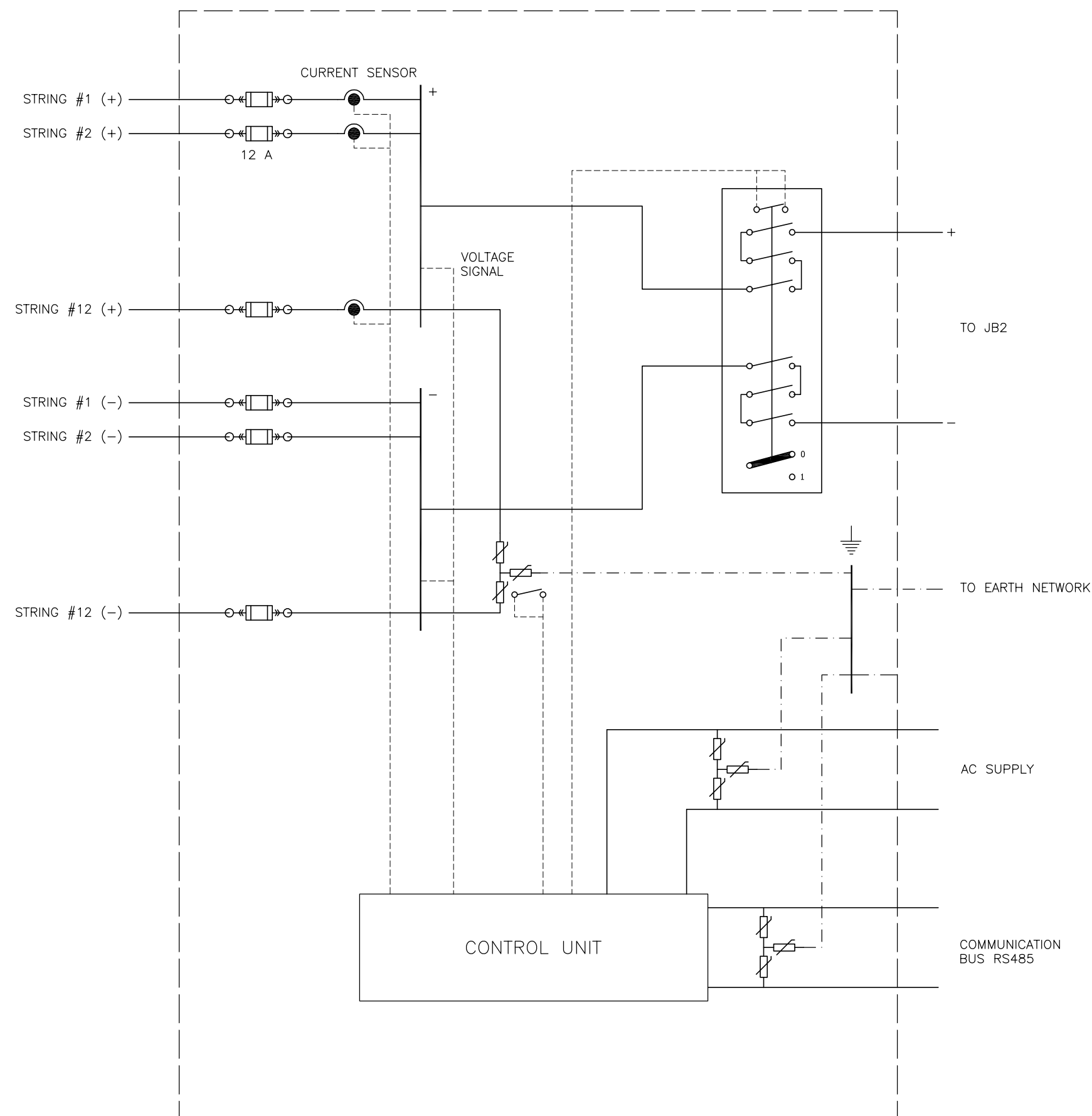
Typical JB1 connection





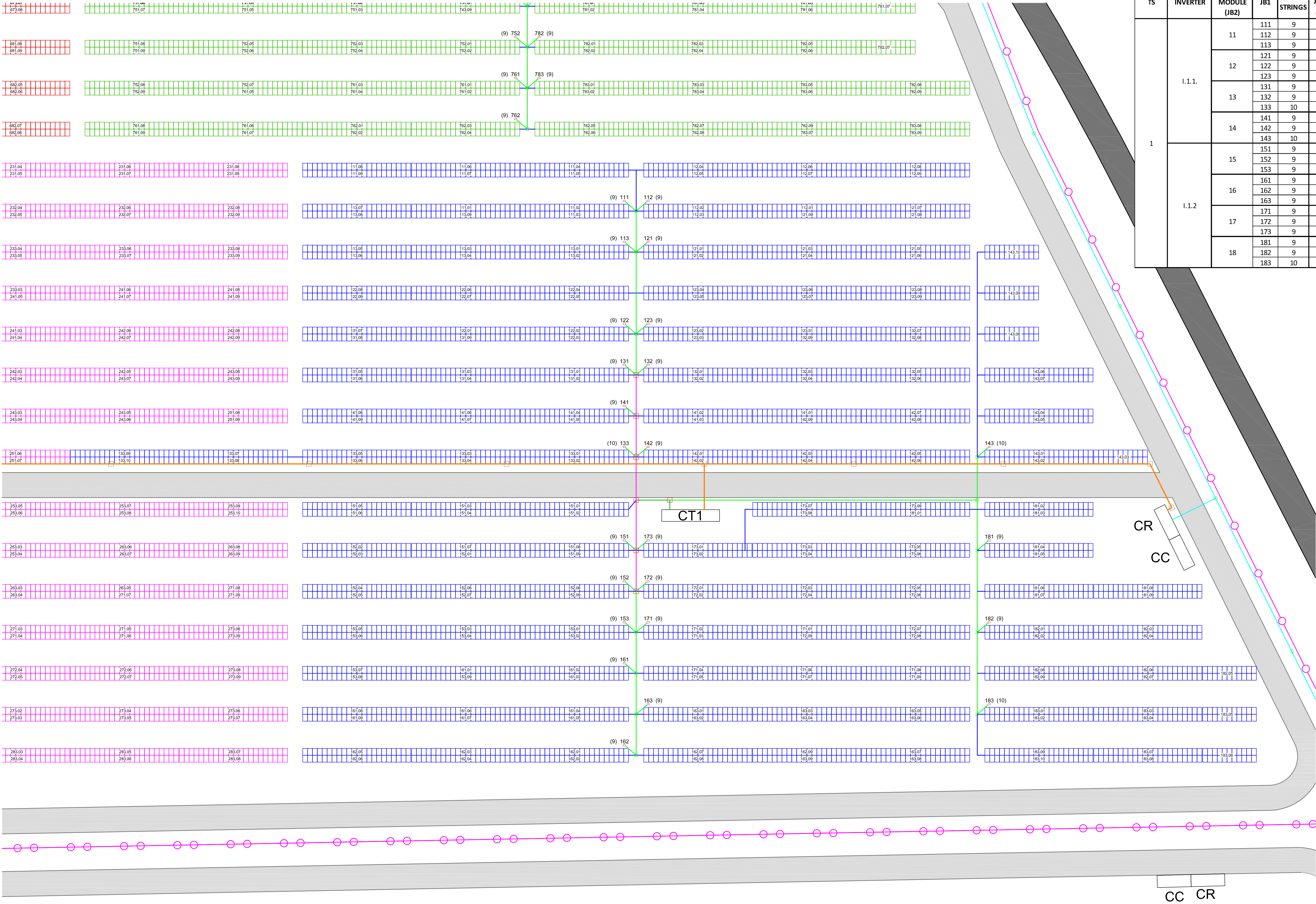
Compact string detail
(only if necessary)

REV:	DESCRIPTION:	DRAWING:	APP:	DATE:				
I	PROJ. REL.	JLB	JLB	12.07.12				
DEVELOPER:								

JUNCTION BOX, LEVEL 1 (JB1)



REV.	DESCRIPTION	DRAWING	APP.	DATE		
1	PROJ. REL.	JLB	JLB	27.06.12		
					PROJECT: SEBIS I	
DEVELOPER:  GIPEN FELIPE IV, 8 4TH FLOOR, MADRID					DRAWING: JUNCTION BOX LEV. I EL. DIAGRAM	
					LOCATION: SEBIS - ROMANIA	
					PROJECT CODE: I203A	EXECUTED PROJECT:
					FORMAT: A3	
					SCALE: -	
					REFERENCE: I203A	
					DRAWING: I2	
					REVIEW: 1	



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm ²)	STRING SECTION (mm ²)									
						1	2	3	4	5	6	7	8	9	10
1	I.1.1.	11	111	9	120	4	4	4	4	4	4	4	6	6	
			112	9	120	4	4	4	4	4	4	4	6	6	
			113	9	95	4	4	4	4	6	6	6	6	6	
		12	121	9	95	4	4	4	4	6	6	6	6	4	
			122	9	95	4	4	4	4	4	4	4	6	6	
			123	9	95	4	4	4	4	4	4	4	6	6	
		13	131	9	70	4	4	4	4	6	6	6	6	4	
			132	9	70	4	4	4	4	6	6	6	6	4	
			133	10	185	4	4	4	4	6	6	6	6	6	6
		14	141	9	70	4	4	4	4	4	4	4	6	6	
			142	9	70	4	4	4	4	6	6	6	6	4	
			143	10	150	4	4	4	4	4	4	4	6	6	6
	I.1.2.	15	151	9	70	4	4	4	4	6	6	4	4	4	
			152	9	70	4	6	6	6	6	4	4	4	4	
			153	9	95	4	4	4	4	6	6	6	6	4	
		16	161	9	95	4	4	4	4	4	4	4	6	6	
			162	9	95	4	4	4	4	6	6	4	4	4	
			163	9	120	4	4	4	4	6	6	6	6	4	
		17	171	9	95	4	4	4	4	4	4	4	6	6	
			172	9	70	4	4	4	4	6	6	6	6	4	
			173	9	70	4	4	4	4	6	6	4	4	6	
	18		181	9	150	4	4	4	4	4	4	4	6	6	
			182	9	185	4	4	4	4	6	4	4	4	4	4
			183	10	240	4	4	4	4	6	6	4	4	4	4

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

CT SS.AA.

AUXILIARY SUPPLY TS

CN1

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

111 (9)

nr. of strings
per JB1

STRING KEY

string nr.

111,01

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

REV.

DESCRIPTION

Drawn

Appr.

DATE

PROJ.

REV.

DATE

ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: SEBIS - ROMANIA

PROJECT CODE: 025A

DESIGNED PROJECT: TSJ

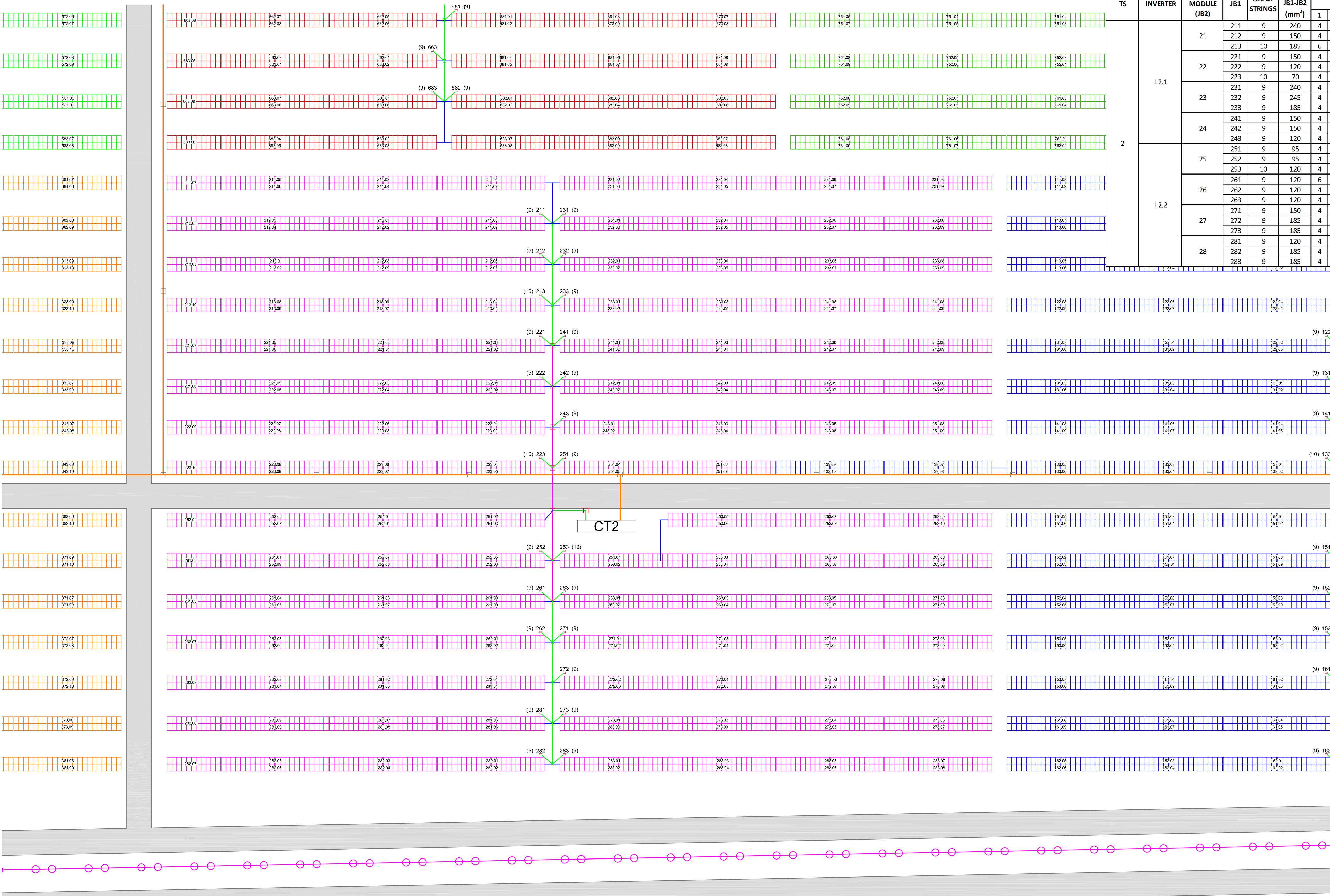
DATE: 14.09

REVISION: 025A

SCALE: 1:1000

PROJECT: USA

REVISION: 1



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm ²)	STRING SECTION (mm ²)									
						1	2	3	4	5	6	7	8	9	10
2	I.2.1	21	211	9	240	4	4	4	6	6	6	6	4	4	
			212	9	150	4	4	6	6	6	4	4	4	4	
			213	10	185	6	6	6	4	4	4	4	6	6	
		22	221	9	150	4	4	4	4	6	6	6	6	6	
			222	9	120	4	4	4	4	6	4	6	6	6	
			223	10	70	4	4	4	4	4	4	4	6	6	6
		23	231	9	240	4	4	4	4	4	6	6	6	6	
			232	9	245	4	4	4	4	4	6	6	6	6	
			233	9	185	4	4	4	4	4	6	6	6	6	
		24	241	9	150	4	4	4	4	4	6	6	6	6	
			242	9	150	4	4	4	4	4	6	6	6	6	
			243	9	120	4	4	4	4	6	6	6	6	6	
	I.2.2	25	251	9	95	4	4	4	4	4	4	4	6	6	
			252	9	95	4	6	6	6	4	4	4	4	4	6
			253	10	120	4	4	4	4	4	4	6	6	6	6
		26	261	9	120	6	6	6	6	6	4	4	4	4	4
			262	9	120	4	4	4	4	6	6	6	6	6	
			263	9	120	4	4	4	4	6	6	6	6	6	
		27	271	9	150	4	4	4	4	6	6	6	6	6	
			272	9	185	4	4	4	4	4	6	6	6	6	
			273	9	185	4	4	4	4	6	6	6	6	6	6
		28	281	9	120	4	4	4	6	4	4	4	4	4	6
			282	9	185	4	4	4	4	6	6	6	6	6	
			283	9	185	4	4	4	4	6	6	6	6	4	

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

COLLECTOR STATION

MONITORING CENTER

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

nr. of strings per JB1

111 (9)

STRING KEY

string nr.

111,01

CT Nomenclature: X

X: CT # (from 1 to 8)

CN2 Nomenclature: XY

X: CT # (from 1 a 8)

Y: Inverter input # (from 1 to 8)

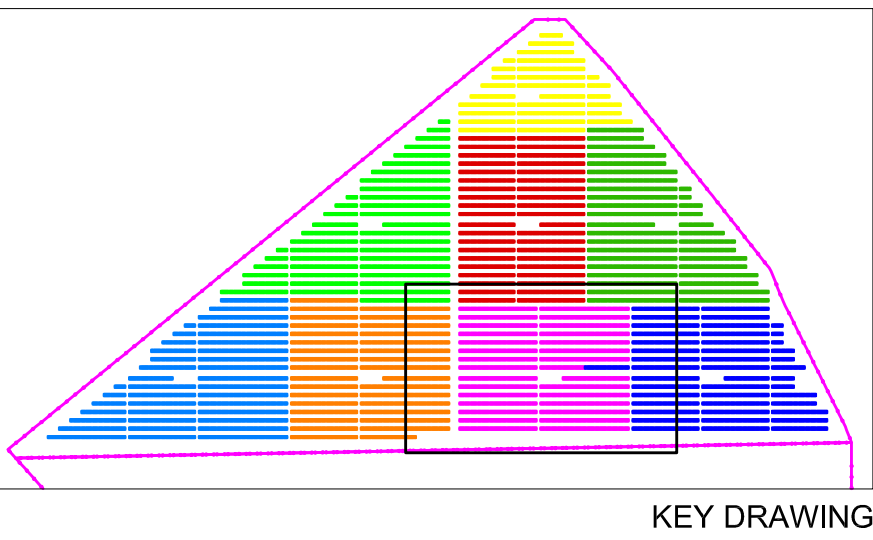
CN1 Nomenclature: XYZ

X: CT # (from 1 a 8)

Y: Inverter input # (from 1 to 8)

Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE CORRESPONDING DRAWING



ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: TS2

PROJECT CODE: 025A

DESIGNED PROJECT: SEBIS - ROMANIA

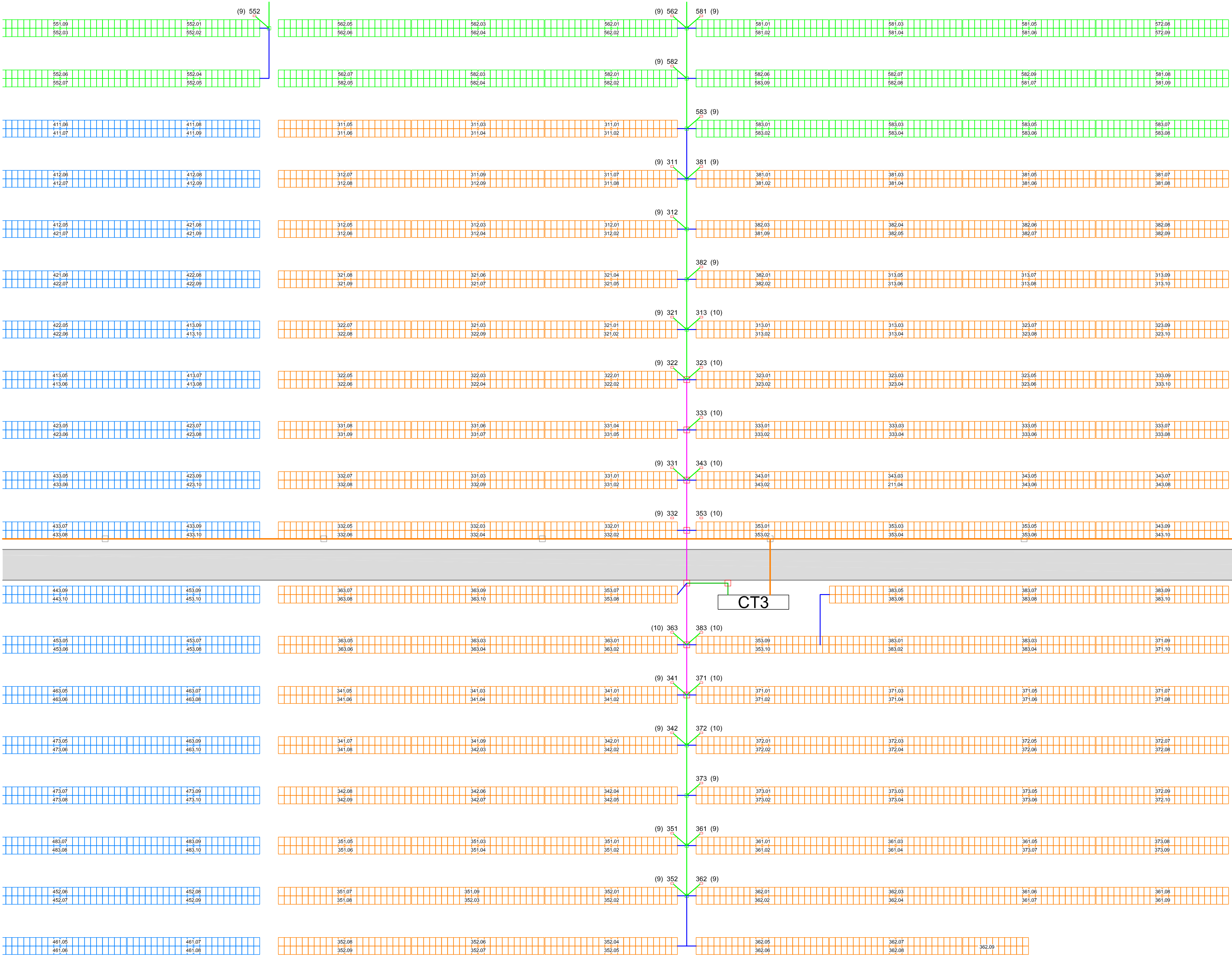
AI

14.09

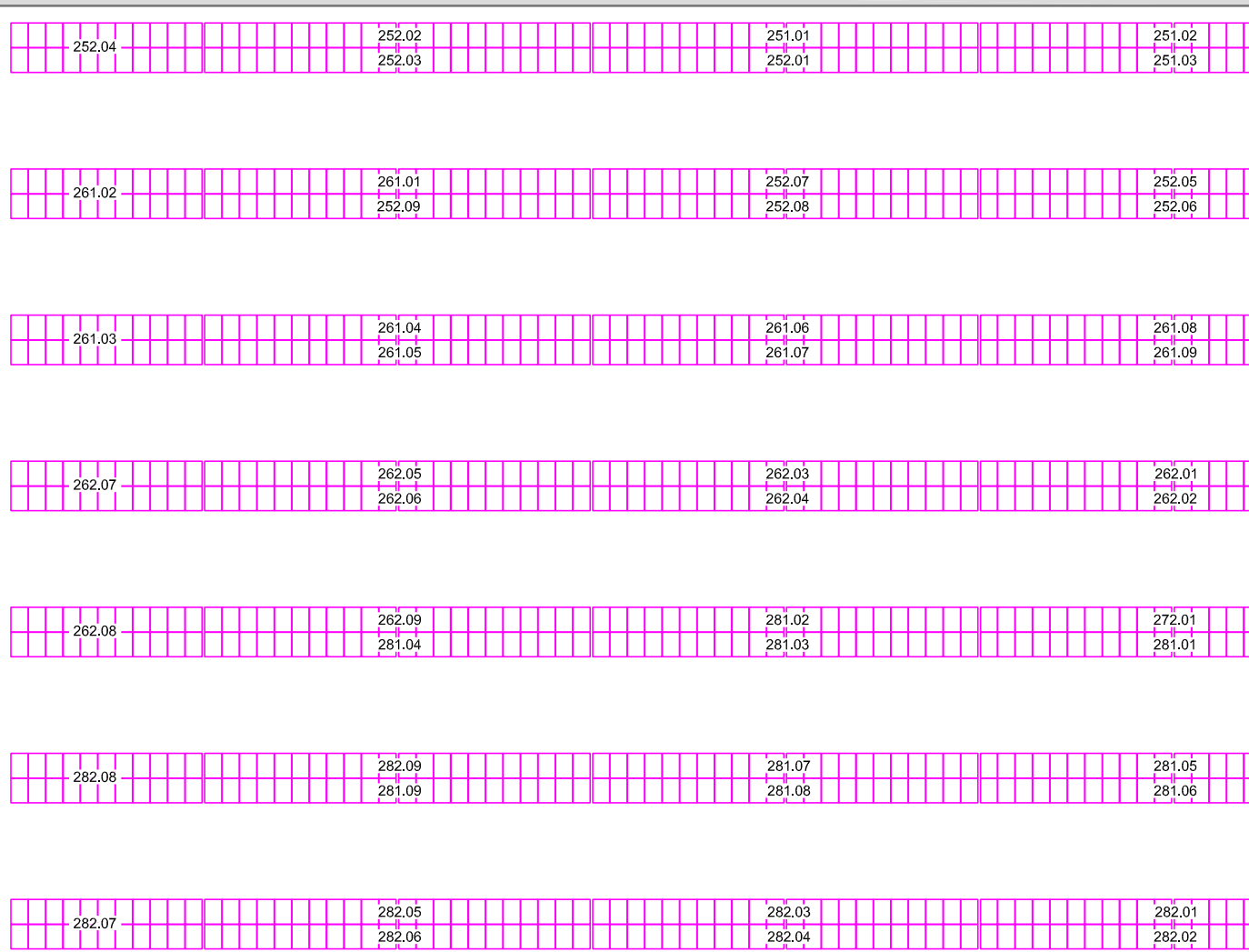
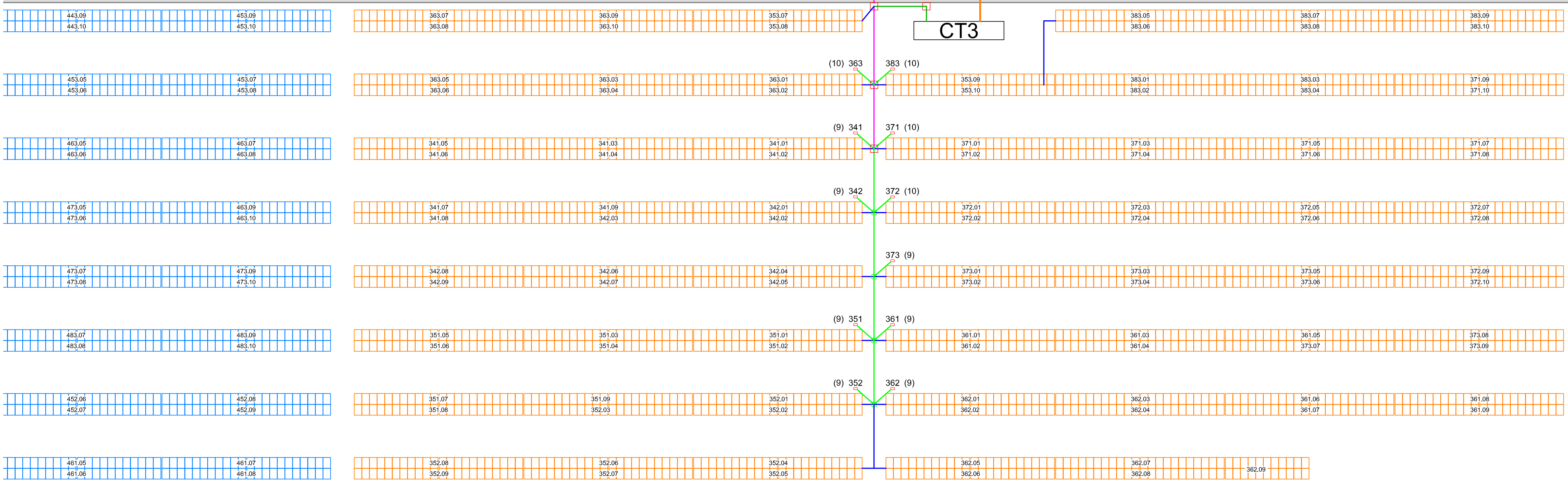
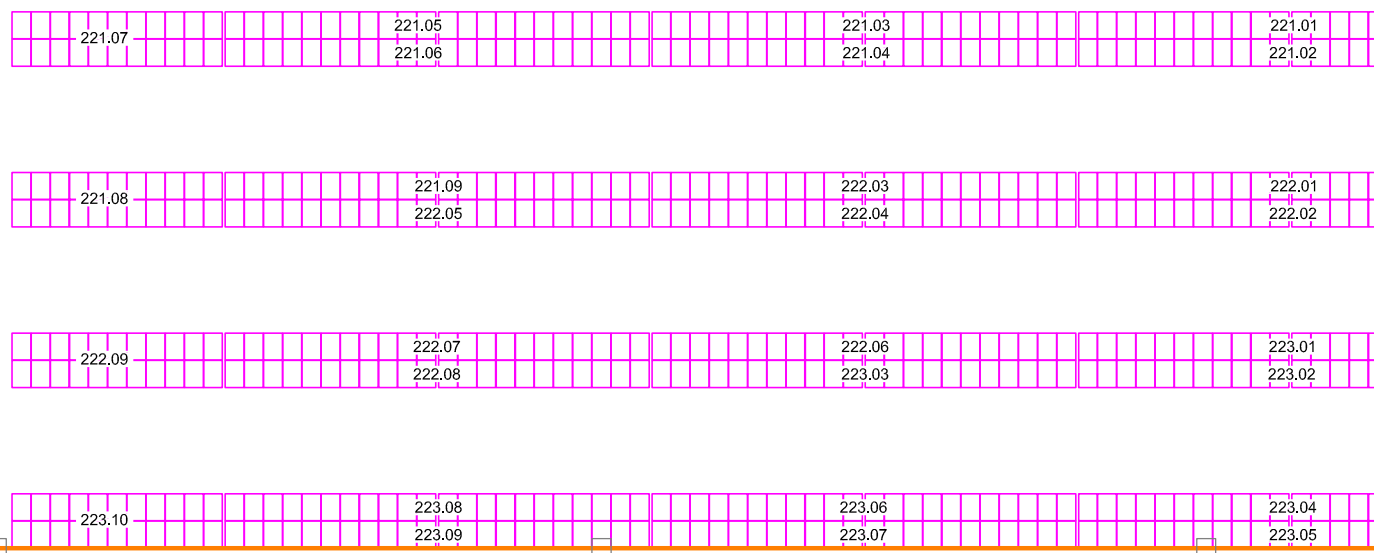
025A

138

1



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm ²)	STRING SECTION (mm ²)									
						1	2	3	4	5	6	7	8	9	10
3	I.3.1	31	311	9	150	4	4	4	4	6	6	4	4	4	
			312	9	150	4	4	4	4	6	6	6	6	4	
			313	10	240	4	4	4	4	4	4	6	6	6	6
		32	321	9	120	4	4	4	4	4	4	4	6	6	
			322	9	150	4	4	4	4	6	6	6	6	6	
			323	10	185	4	4	4	4	6	6	6	6	6	6
		33	331	9	70	4	4	4	4	4	4	4	6	6	
			332	9	70	4	4	4	4	6	6	6	6	4	
			333	10	150	4	4	4	4	6	6	6	6	6	6
		34	341	9	70	4	4	4	4	6	6	6	6	4	
			342	9	95	4	4	4	4	4	4	4	6	6	
			343	10	120	4	4	4	4	6	6	6	6	6	6
	I.3.2	35	351	9	120	4	4	4	4	6	6	6	6	4	
			352	9	120	4	4	4	4	4	4	4	6	6	
			353	10	70	4	4	4	4	6	6	4	4	4	4
		36	361	9	185	4	4	4	4	6	6	6	6	6	
			362	9	120	4	4	4	4	4	4	4	4	6	
			363	10	70	4	4	4	4	6	6	6	6	4	4
		37	371	10	150	4	4	4	4	6	6	6	6	6	6
			372	10	150	4	4	4	4	6	6	6	6	6	6
			373	9	185	4	4	4	4	6	6	6	6	6	
		38	381	9	240	4	4	4	4	6	6	6	6	4	
			382	9	240	4	4	4	4	4	6	6	6	6	
			383	10	120	4	4	6	6	4	4	6	6	6	6



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

COLLECTOR STATION

MONITORING CENTER

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

nr. of strings per JB1

111 (9)

STRING KEY

string nr.

111,01

JB1 KEY

JB1 nr.

nr. of strings per JB1

111 (9)

STRING KEY

string nr.

111,01

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

REV. 1

DESCRIPTION

PROJ. REV.

DATE

10.07.07

ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: SEBIS - ROMANIA

PROJECT CODE: 025A

DESIGNED PROJECT: 1

DEVELOPER

GIPEN

100%

DESIGNED PROJECT: 1

FORMAT: A1

SCALE: 1:1000

REVISION: 025A

DATE: 10.07.07

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

nr. of strings per JB1

111 (9)

STRING KEY

string nr.

111.01

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
5	I.5.1	51	511	9	185	4	4	4	4	4	4	4	4	6	
			512	9	185	4	4	4	4	4	4	4	6	6	
			513	10	185	4	4	4	4	4	6	6	6	6	6
		52	521	9	185	4	4	4	4	6	6	6	6	4	
			522	9	150	4	4	4	4	4	6	6	6	6	
			523	10	150	4	4	4	4	6	6	6	4	6	6
		53	531	9	120	4	4	4	4	4	6	6	6	6	
			532	9	70	4	4	4	4	4	4	4	4	6	
			533	10	120	4	4	4	4	4	4	6	6	6	6
		54	541	9	70	4	4	4	4	6	4	4	4	4	
			542	9	185	4	4	4	4	4	4	4	4	6	
			543	10	150	4	4	4	4	6	6	6	6	6	6
	I.5.2	55	551	9	240	4	4	4	4	4	4	4	4	4	
			552	9	240	4	4	4	4	4	4	4	4	6	
			553	10	150	4	4	4	4	6	6	6	6	6	6
		56	561	9	120	4	4	4	4	6	4	4	4	4	
			562	9	120	4	4	4	4	6	6	6	6	6	
			563	10	95	4	4	4	4	4	6	6	4	4	6
		57	571	9	185	4	4	4	4	6	6	6	6	4	
			572	9	240	4	4	4	6	6	6	6	6	6	
			573	10	150	4	4	4	4	4	6	6	6	6	6
		58	581	9	240	4	4	4	4	6	6	6	6	6	
			582	9	120	4	4	4	4	6	4	4	4	6	
			583	9	240	4	4	4	4	6	6	6	6	4	

REV. 1

DESCRIPTION

DATE

APP.

DATE

PROJ. 1

REV. 1

DATE

APP.

DATE

ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: SEBIS - ROMANIA

DEVELOPER

PROJECT CODE: 025A

PROJECT NAME: SEBIS I

ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: SEBIS - ROMANIA

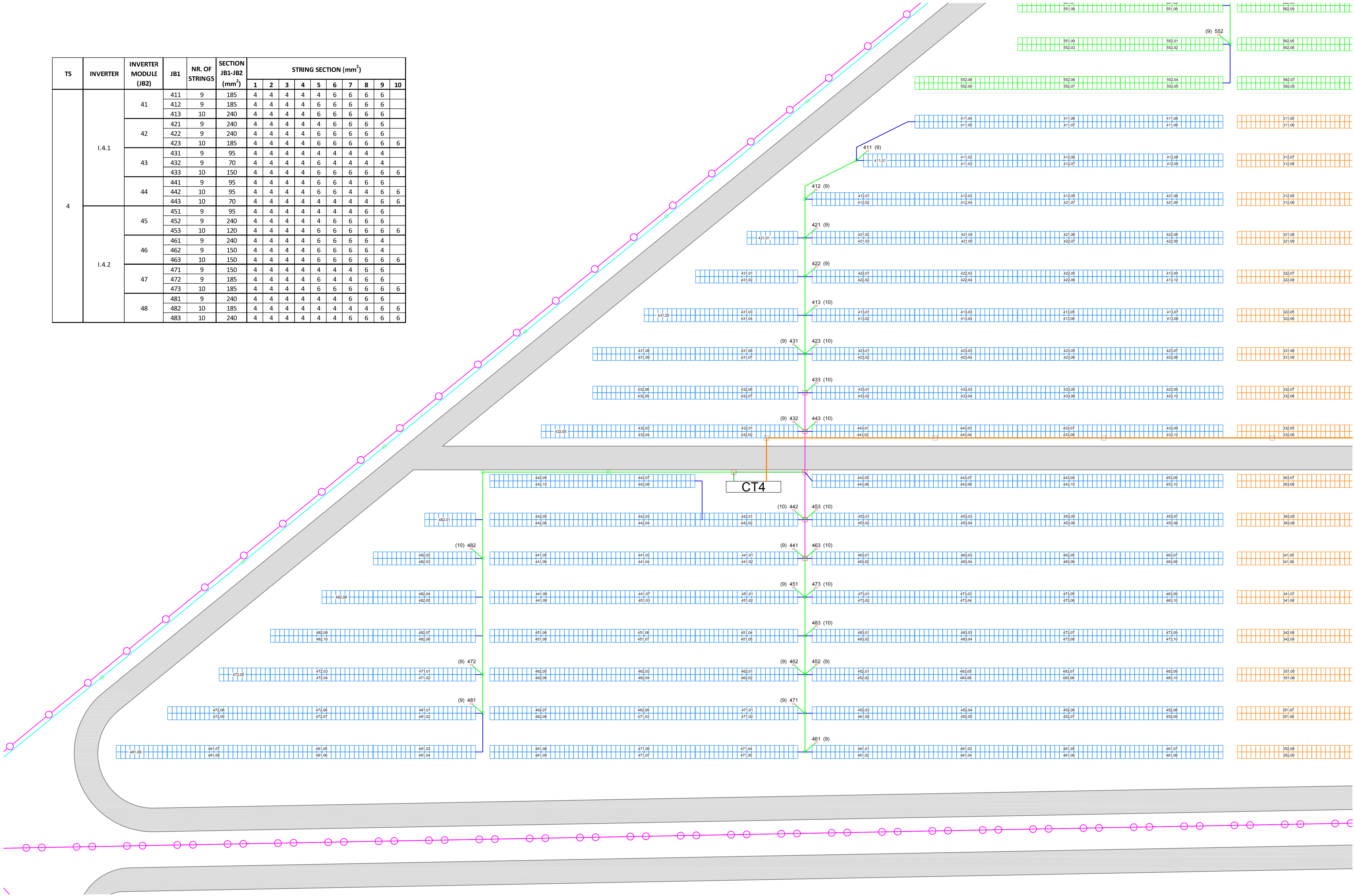
ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION

LOCATION: SEBIS - ROMANIA

TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm ²)	STRING SECTION (mm ²)									
						1	2	3	4	5	6	7	8	9	10
4	I.4.1	41	411	9	185	4	4	4	4	4	6	6	6	6	
			412	9	185	4	4	4	4	6	6	6	6	6	
			413	10	240	4	4	4	4	6	6	6	6	6	
		42	421	9	240	4	4	4	4	4	6	6	6	6	
			422	9	240	4	4	4	4	6	6	6	6	6	
			423	10	185	4	4	4	4	6	6	6	6	6	6
		43	431	9	95	4	4	4	4	4	4	4	4	4	
			432	9	70	4	4	4	4	6	4	4	4	4	
			433	10	150	4	4	4	4	6	6	6	6	6	6
		44	441	9	95	4	4	4	4	6	6	4	6	6	
			442	10	95	4	4	4	4	6	6	4	4	6	6
			443	10	70	4	4	4	4	4	4	4	4	6	6
	I.4.2	45	451	9	95	4	4	4	4	4	4	4	6	6	
			452	9	240	4	4	4	4	4	6	6	6	6	
			453	10	120	4	4	4	4	6	6	6	6	6	6
		46	461	9	240	4	4	4	4	6	6	6	6	4	
			462	9	150	4	4	4	4	6	6	6	6	6	4
			463	10	150	4	4	4	4	6	6	6	6	6	6
		47	471	9	150	4	4	4	4	4	4	4	4	6	6
			472	9	185	4	4	4	4	6	4	4	6	6	
			473	10	185	4	4	4	4	6	6	6	6	6	6
		48	481	9	240	4	4	4	4	4	4	6	6	6	
			482	10	185	4	4	4	4	4	4	4	4	6	6
			483	10	240	4	4	4	4	4	6	6	6	6	6



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

COLLECTOR STATION

MONITORING CENTER

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

nr. of strings per JB1

111 (9)

STRING KEY

string nr.

111,01

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter Input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

REV.	DESCRIPTION	DATE	APP.	DATE	REV.
PROJ.	REV.	JLB	JLB	10.07.07	
DEVELOPER					
ibener					
PROJECT:	SEBIS I				FORMAT: A1
DRAWING:	JB1 & STRING LOCATION & SECTION				SCALE: 1:1000
LOCATION:	SEBIS - ROMANIA				PROJECT CODE: 0203A
PROJECT CODE:	0203A				REVISION: 1



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR COLLECTOR STATION

CC MONITORING CENTER

CT TRANSFORMER STATION

AUXILIARY SUPPLY TS

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

111 (9)

nr. of strings per JB1

STRING KEY

string nr.

111.01

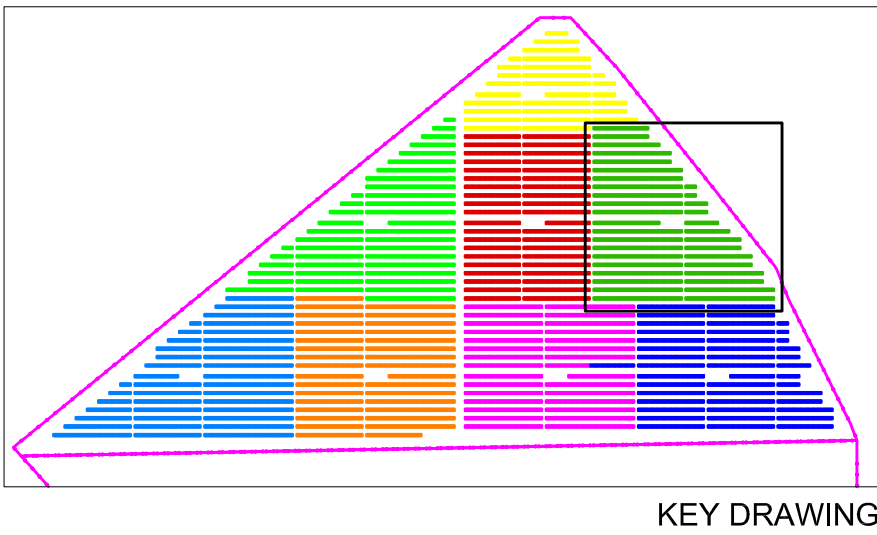
CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE CORRESPONDING DRAWING

TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm ²)	STRING SECTION (mm ²)									
						1	2	3	4	5	6	7	8	9	10
7	I.7.1	71	711	9	240	4	4	6	6	4	4	4	6	6	
			712	9	240	4	4	4	4	6	6	6	6	4	
			713	10	240	4	4	4	4	6	6	6	6	6	6
		72	721	9	240	4	4	4	6	6	6	4	4	4	
			722	9	120	4	4	4	4	6	6	4	6	6	
			723	10	150	4	4	4	4	6	6	6	6	4	4
		73	731	9	185	4	4	4	4	6	6	6	6	4	
			732	9	150	4	4	4	4	6	6	6	6	4	
			733	10	120	4	4	4	4	6	6	6	6	4	4
		74	741	9	185	4	4	4	4	6	6	6	6	6	
			742	9	185	4	4	4	4	6	6	6	6	6	
			743	9	185	4	4	4	4	6	6	6	6	4	
	I.7.2	75	751	9	240	4	4	4	6	6	6	6	6	6	
			752	9	240	4	4	4	4	6	6	6	6	6	
			753	10	150	4	4	4	4	4	4	6	6	6	6
		76	761	9	240	4	4	4	4	6	6	6	6	6	
			762	9	185	4	4	4	4	4	4	4	4	6	
			763	10	150	4	4	4	4	6	6	6	6	6	6
		77	771	9	70	4	4	4	4	4	6	4	4	4	
			772	9	95	4	4	4	4	4	4	4	4	6	
			773	9	120	4	4	4	6	6	4	4	4	4	
		78	781	9	185	4	4	4	4	6	6	6	6	6	
			782	9	240	4	4	4	4	6	6	6	6	6	
			783	9	240	4	4	4	4	6	6	6	6	6	



ibener

PROJECT: SEBIS I

DRAWING: JBI & STRING LOCATION & SECTION TS7

LOCATION: SEBIS - ROMANIA

PROJECT CODE: 0203A

ISSUED FOR PROJECT: 0203A

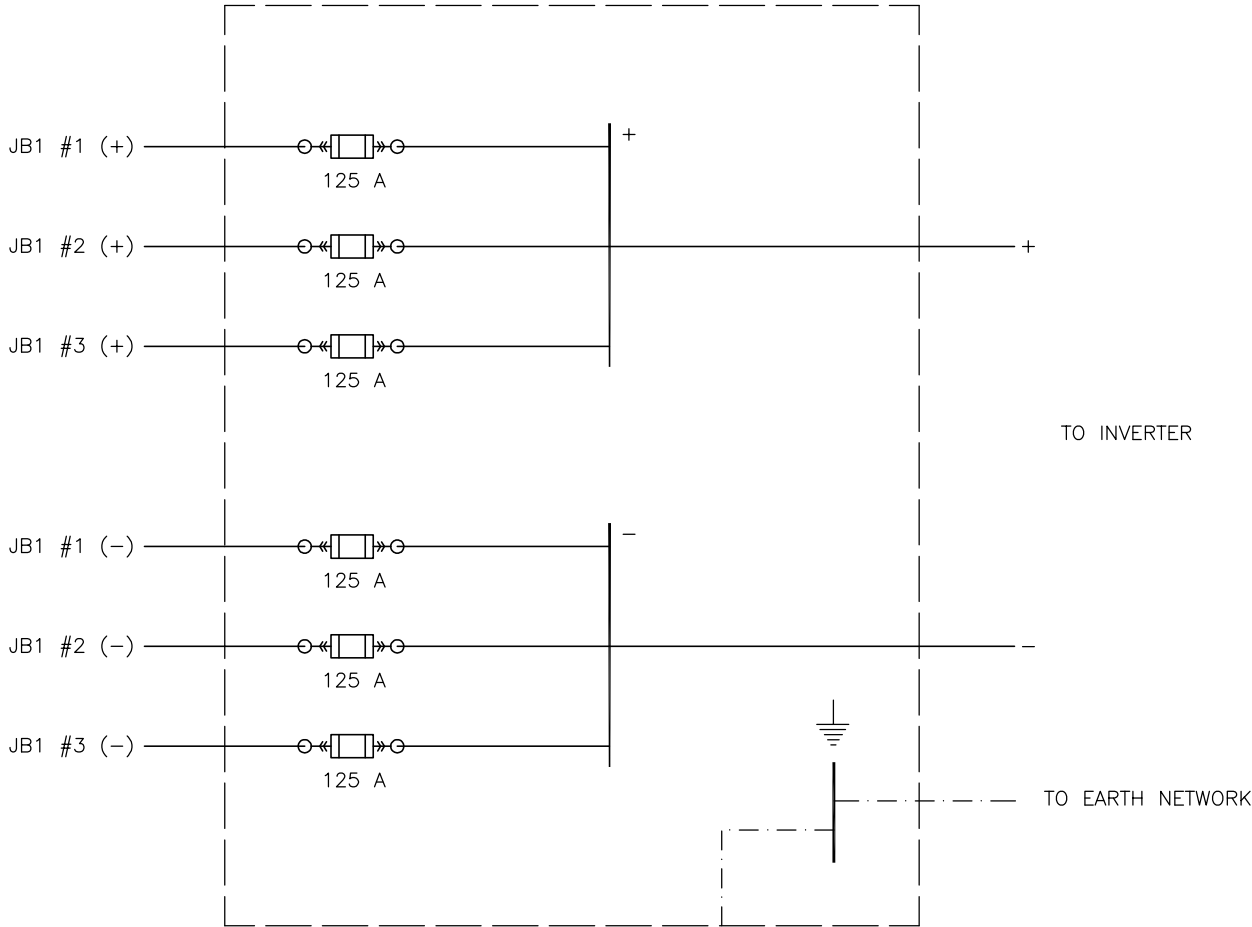
DATE: 14.09



REVISION: 0203A

PROJECT: 0203A

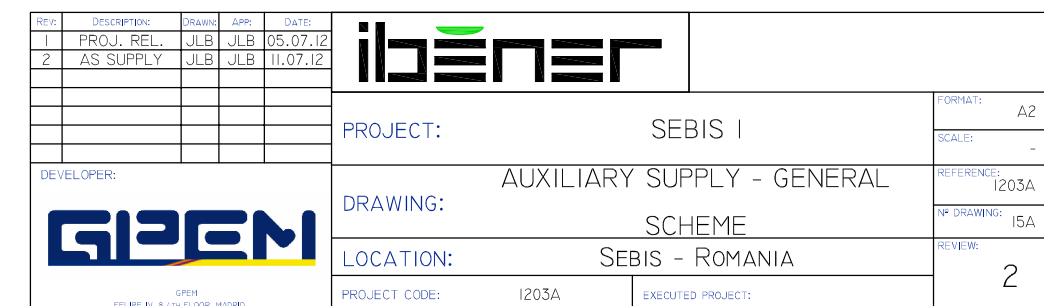
PROJECT: 0203A

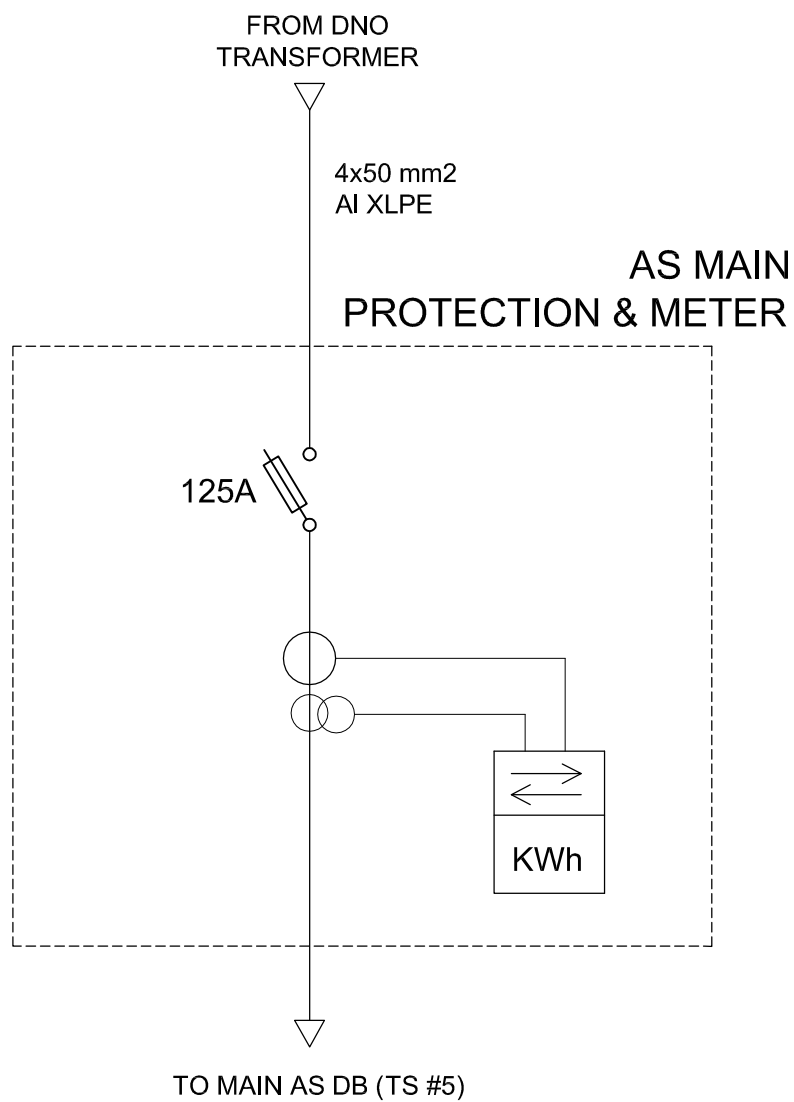
JUNCTION BOX, LEVEL 2 (JB2)



REV:	DESCRIPTION:	DRAWING:	APP:	DATE:		
I	PROJ. REL.	JLB	JLB	27.06.12		
					PROJECT: SEBIS I	
					DRAWING: JUNCTION BOX LEV. 2 EL. DIAGRAM	
					LOCATION: SEBIS - ROMANIA	
DEVELOPER:  <small>GIPEN FELIPE IV, 8 4TH FLOOR, MADRID</small>					PROJECT CODE: I203A	EXECUTED PROJECT:

FORMAT:	A3
SCALE:	-
REFERENCE:	I203A
VP DRAWING:	I4
REVIEW:	I





REV.	DESCRIPTION	DRAWING	APP.	DATE
1	PROJ. REL.	JLB	JLB	05.07.12
2	AS SUPPLY	JLB	JLB	11.07.12

DEVELOPER:

GPEM

GPEM
FELIX IV, 8 4TH FLOOR, MAGD

ibener

PROJECT:

SEBIS I

DRAWING:

AUXILIARY SUPPLY - MAIN

PROT&METER

LOCATION:

SEBIS - ROMANIA

PROJECT CODE:

I203A

EXECUTED PROJECT:

FORMAT:

A4

SCALE:

-

REFERENCE:

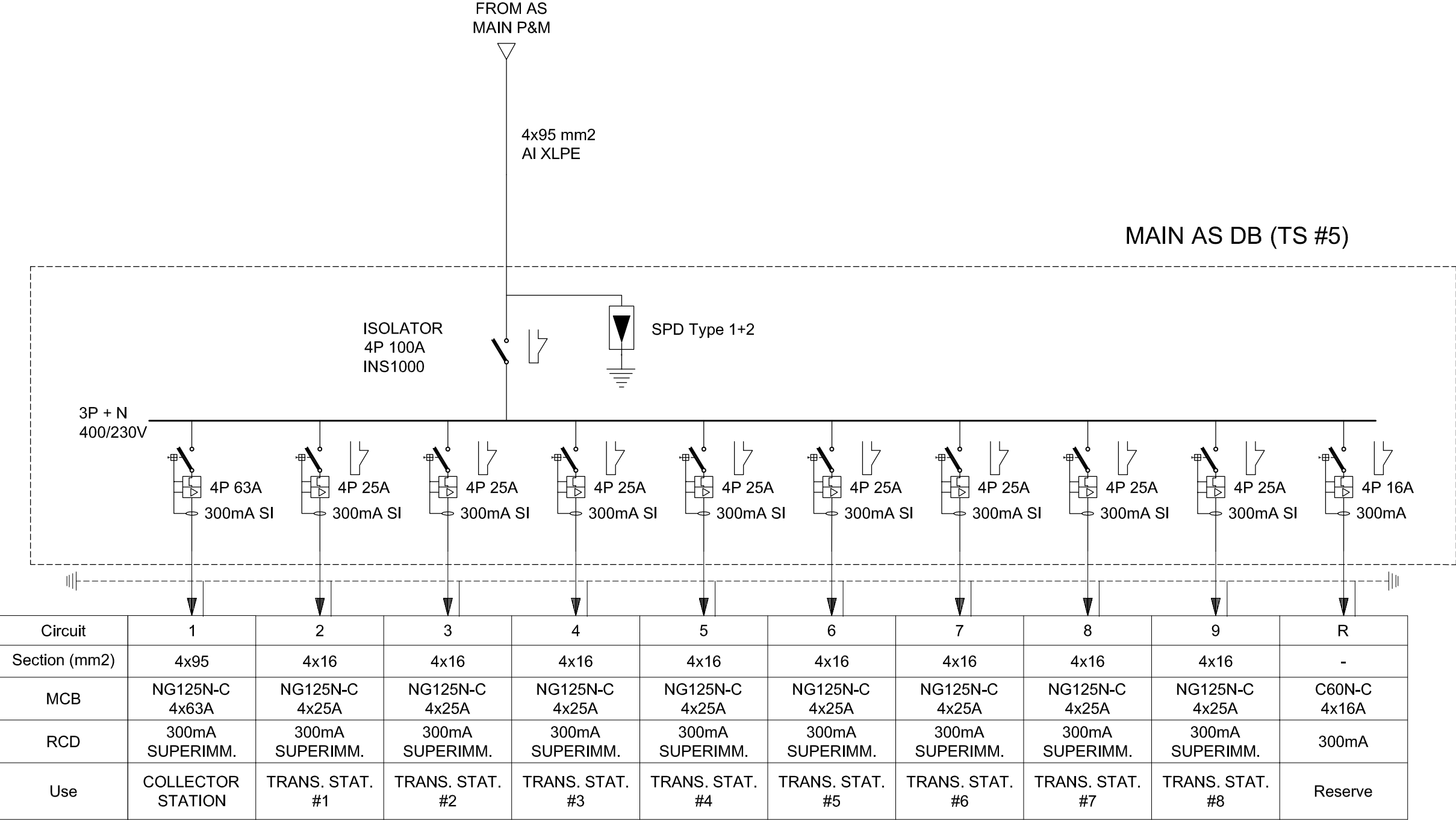
I203A



N° DRAWING:

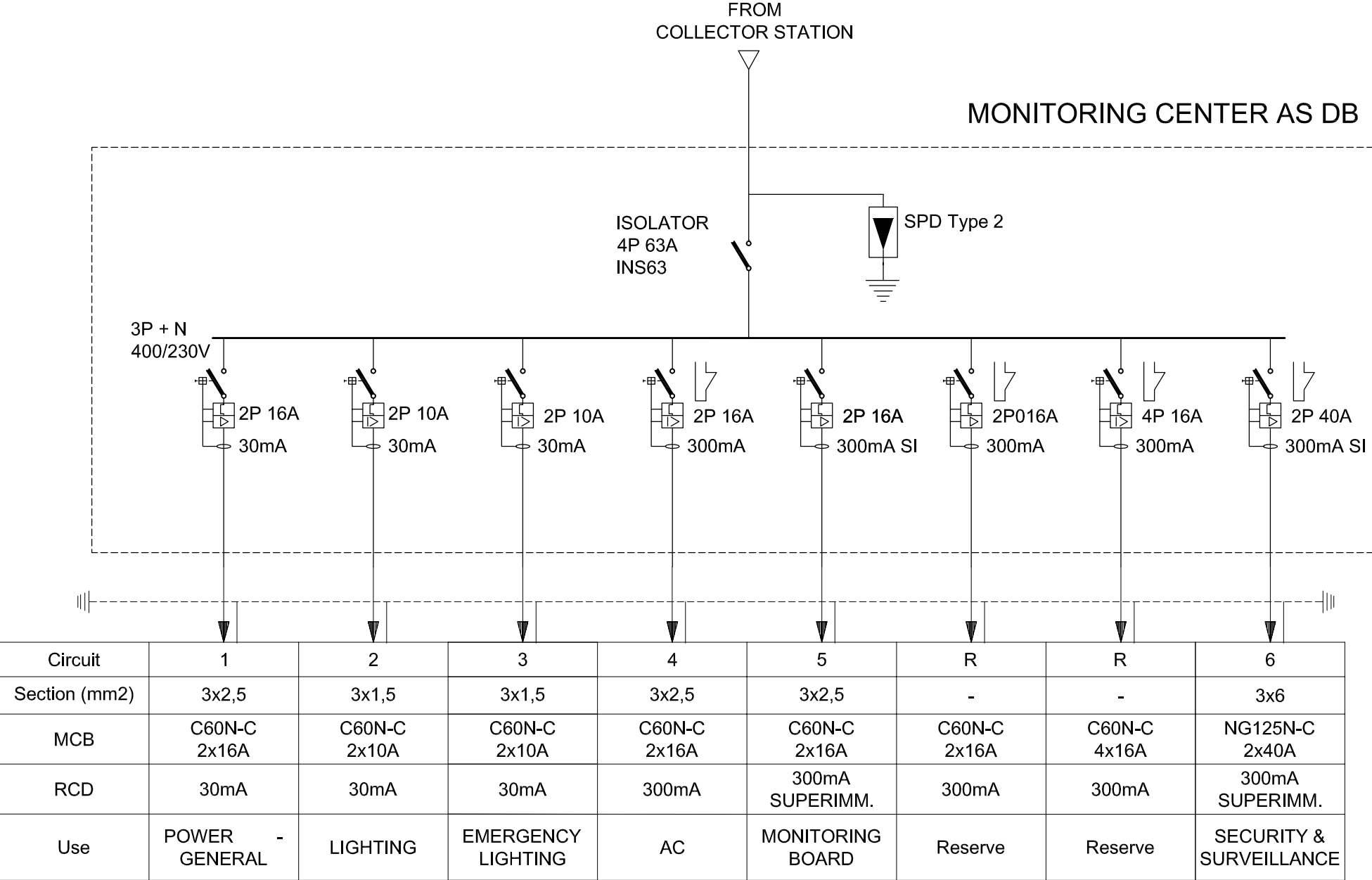
I5B

REVIEW:

2



REV.	DESCRIPTION	DRAWN	APP.	DATE		
1	PROJ. REL.	JLB	JLB	05.07.12		
2	AS SUPPLY	JLB	JLB	11.07.12		
DEVELOPER:						
PROJECT:					SEBIS I	
DRAWING:					AUXILIARY SUPPLY - MAIN DIST.	
LOCATION:					SEBIS - ROMANIA	
PROJECT CODE:					I203A	EXECUTED PROJECT:
FORMAT:					A3	
SCALE:					-	
REFERENCE:					I203A	
4P DRAWING:					I5C	
REVIEW:					2	



REV.	DESCRIPTION	DRAWN	APP.	DATE
1	PROJ. REL.	JLB	JLB	05.07.12
2	AS SUPPLY	JLB	JLB	11.07.12

ibener

GIPEN
GIPEN
FELIXE IV, 8 LHM FLOOR, HADRID

DEVELOPER:

PROJECT CODE: I203A

PROJECT:

DRAWING:

LOCATION:

EXECUTED PROJECT:

SEBIS I

AUXILIARY SUPPLY - MC DIST.

BOARD

SEBIS - ROMANIA

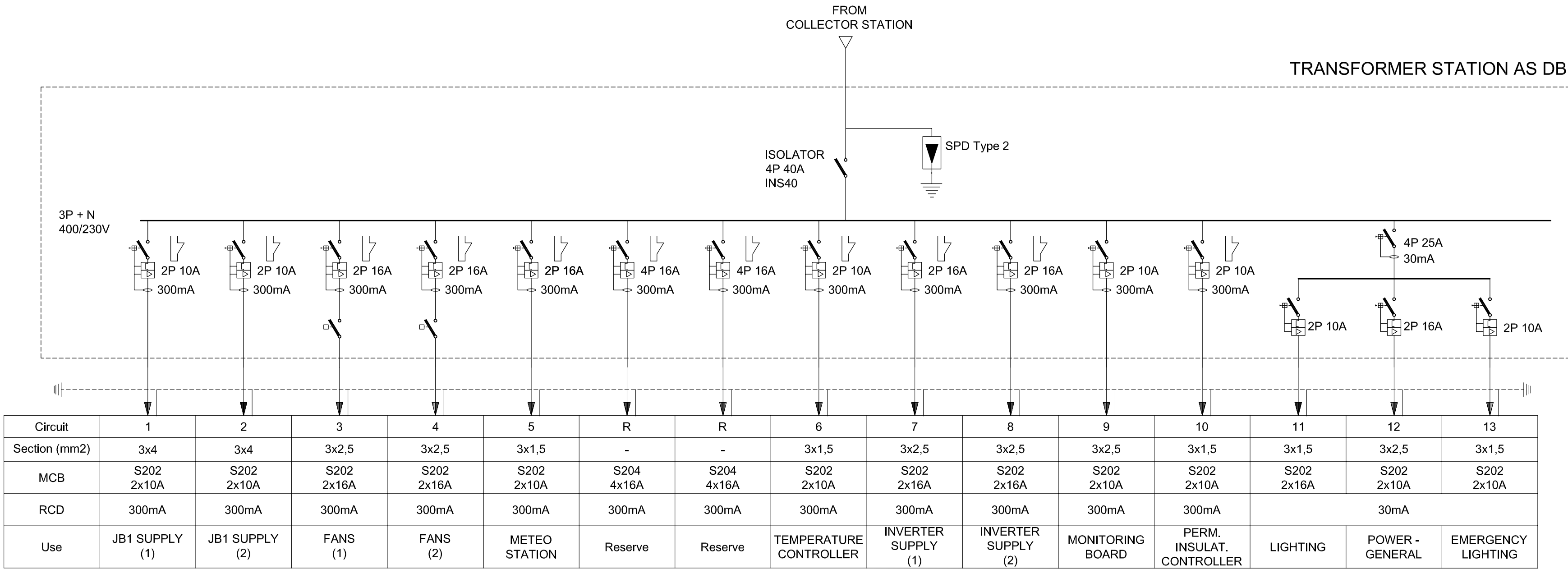
FORMAT: A3

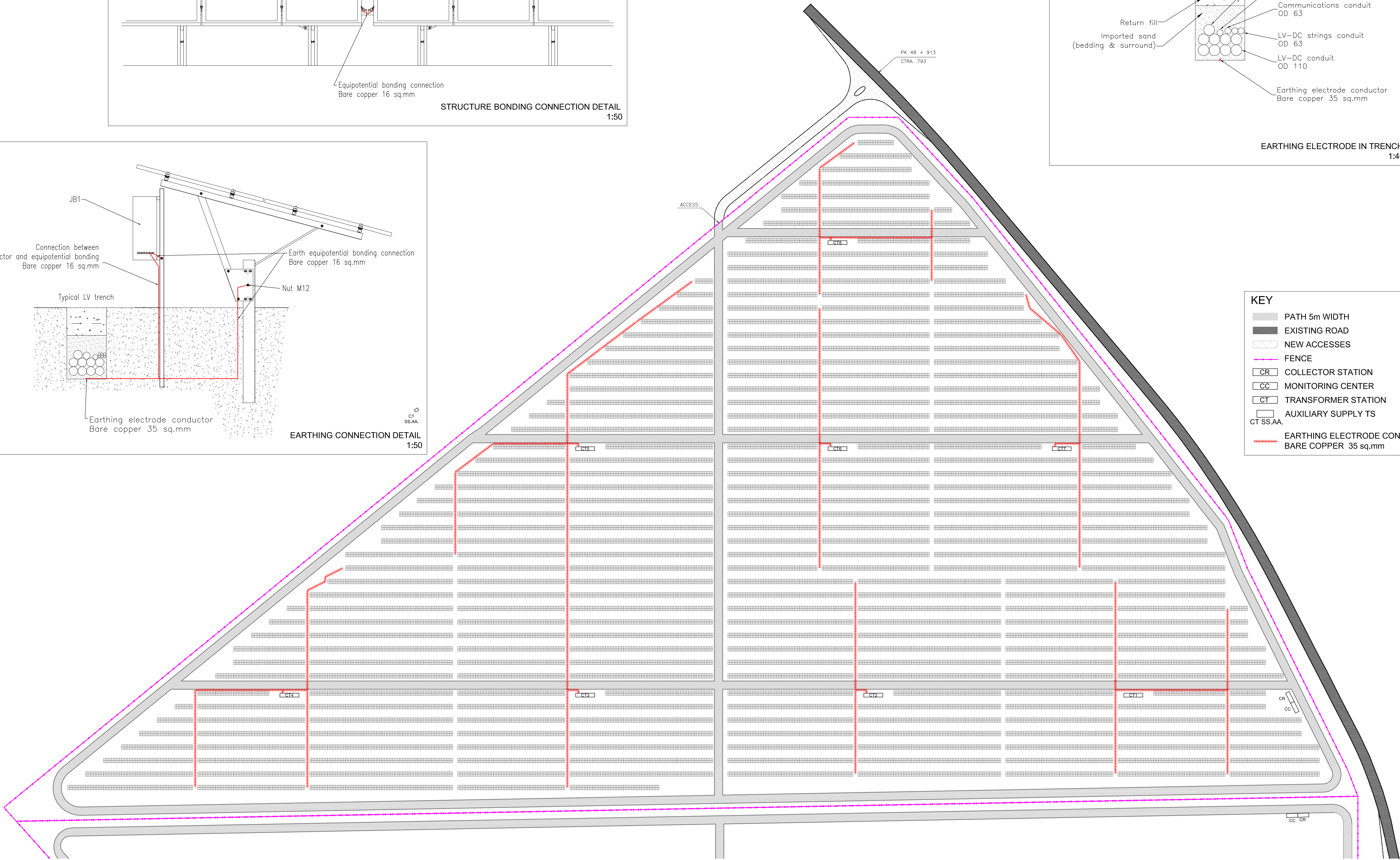
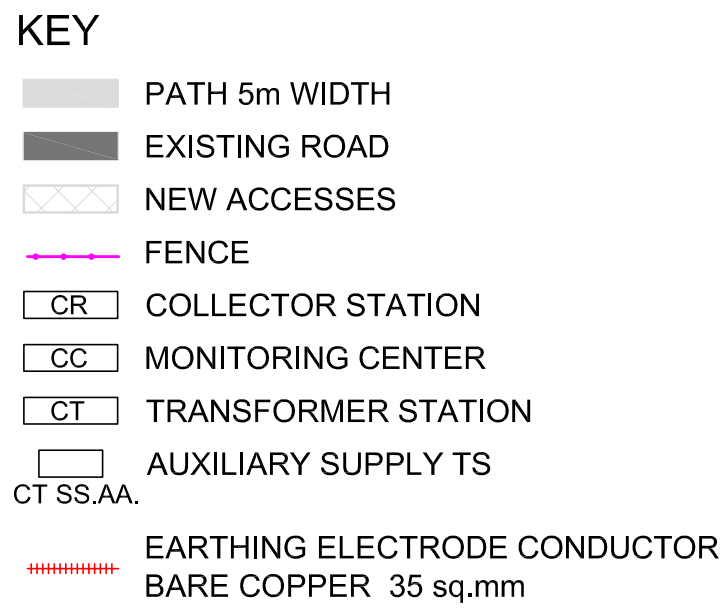
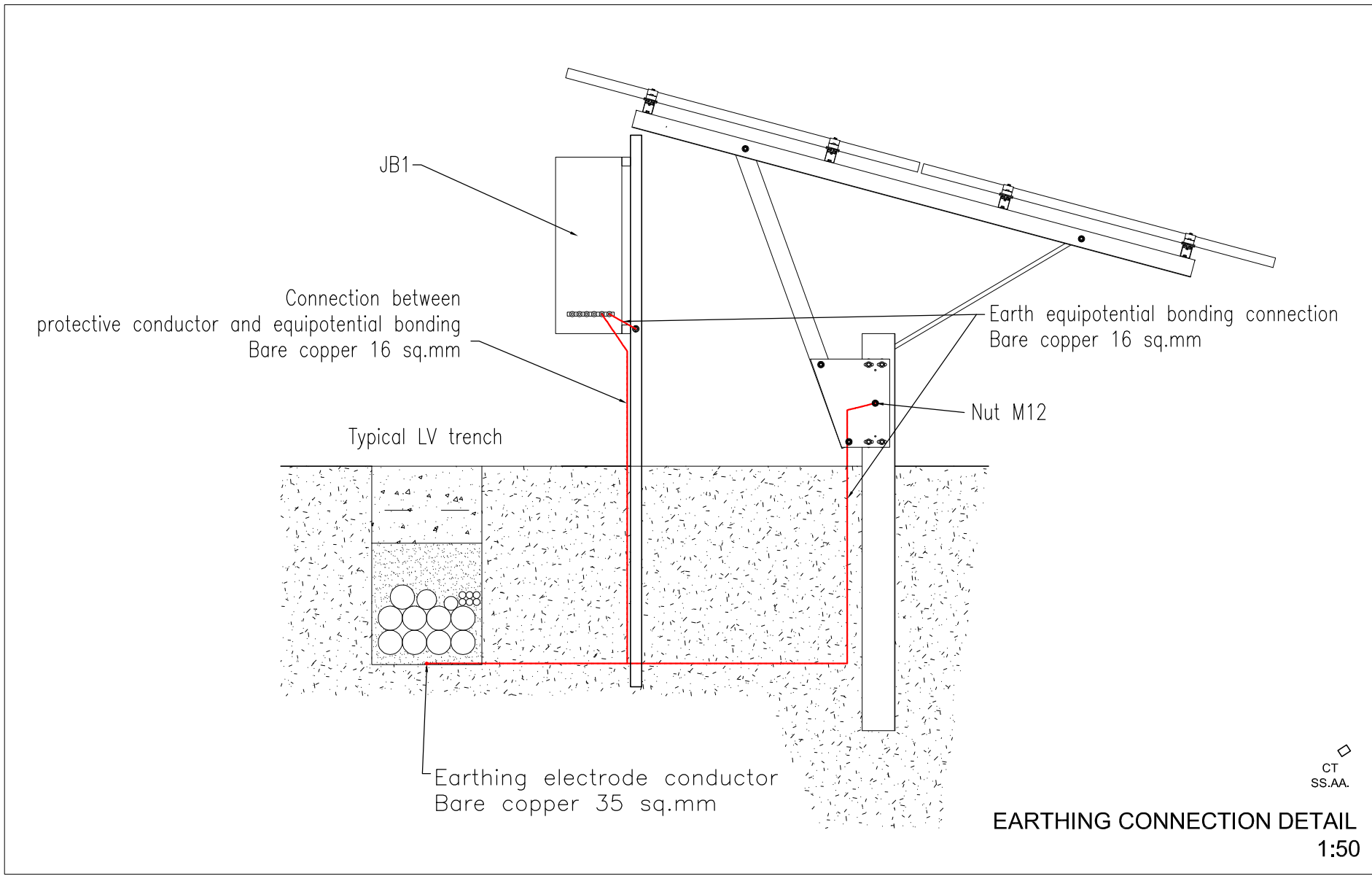
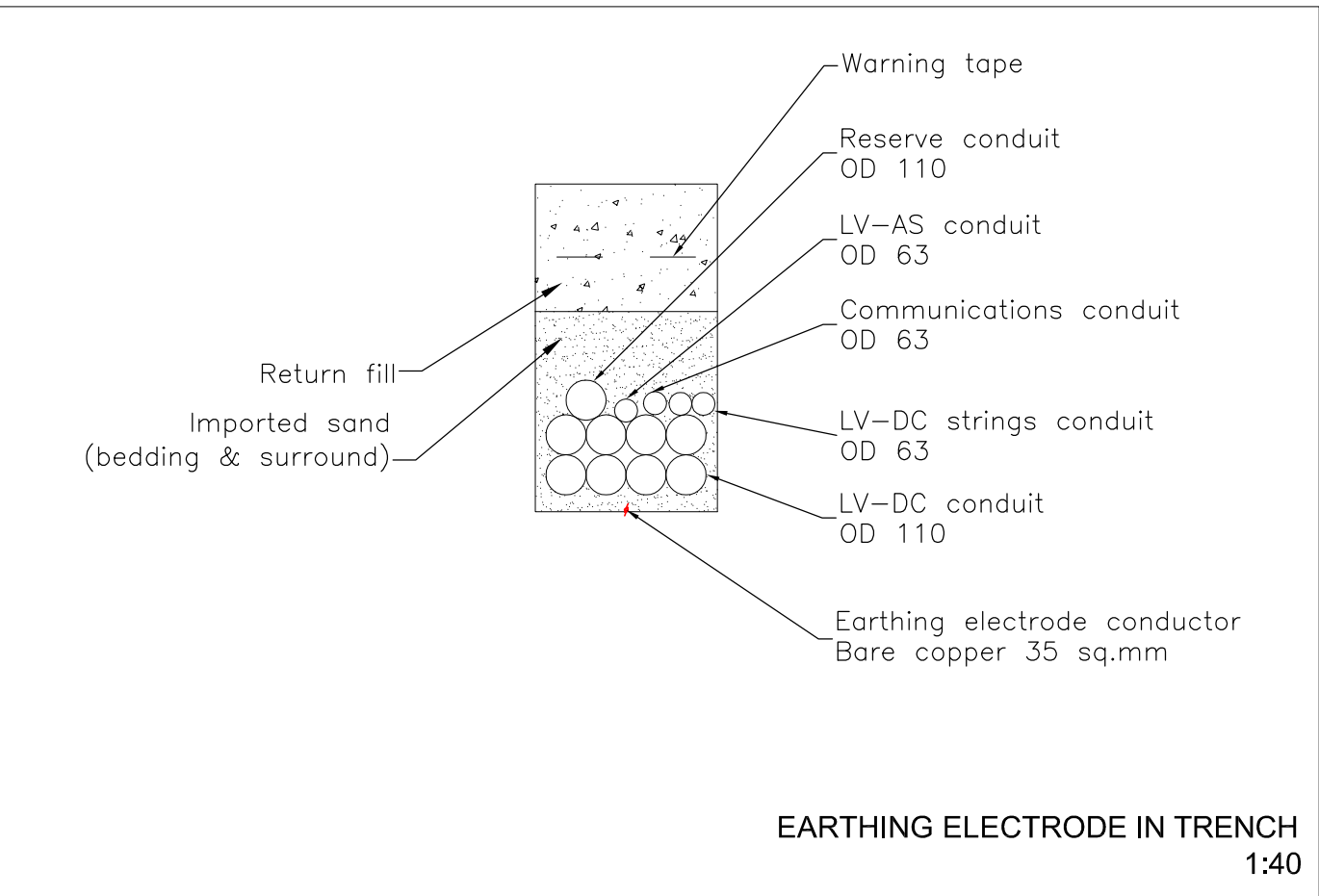
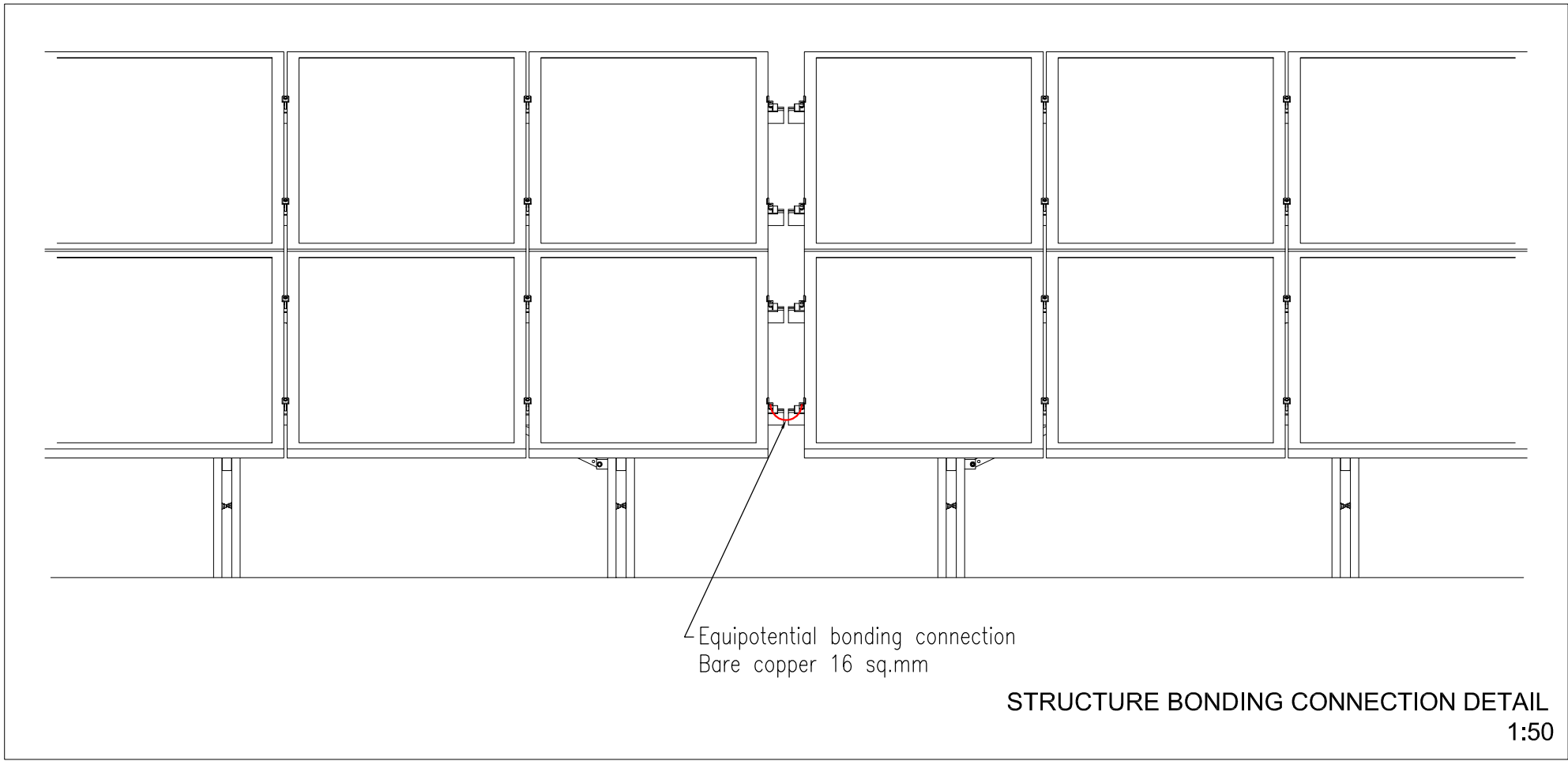
SCALE: -

REFERENCE: I203A

HP DRAWING: I5E

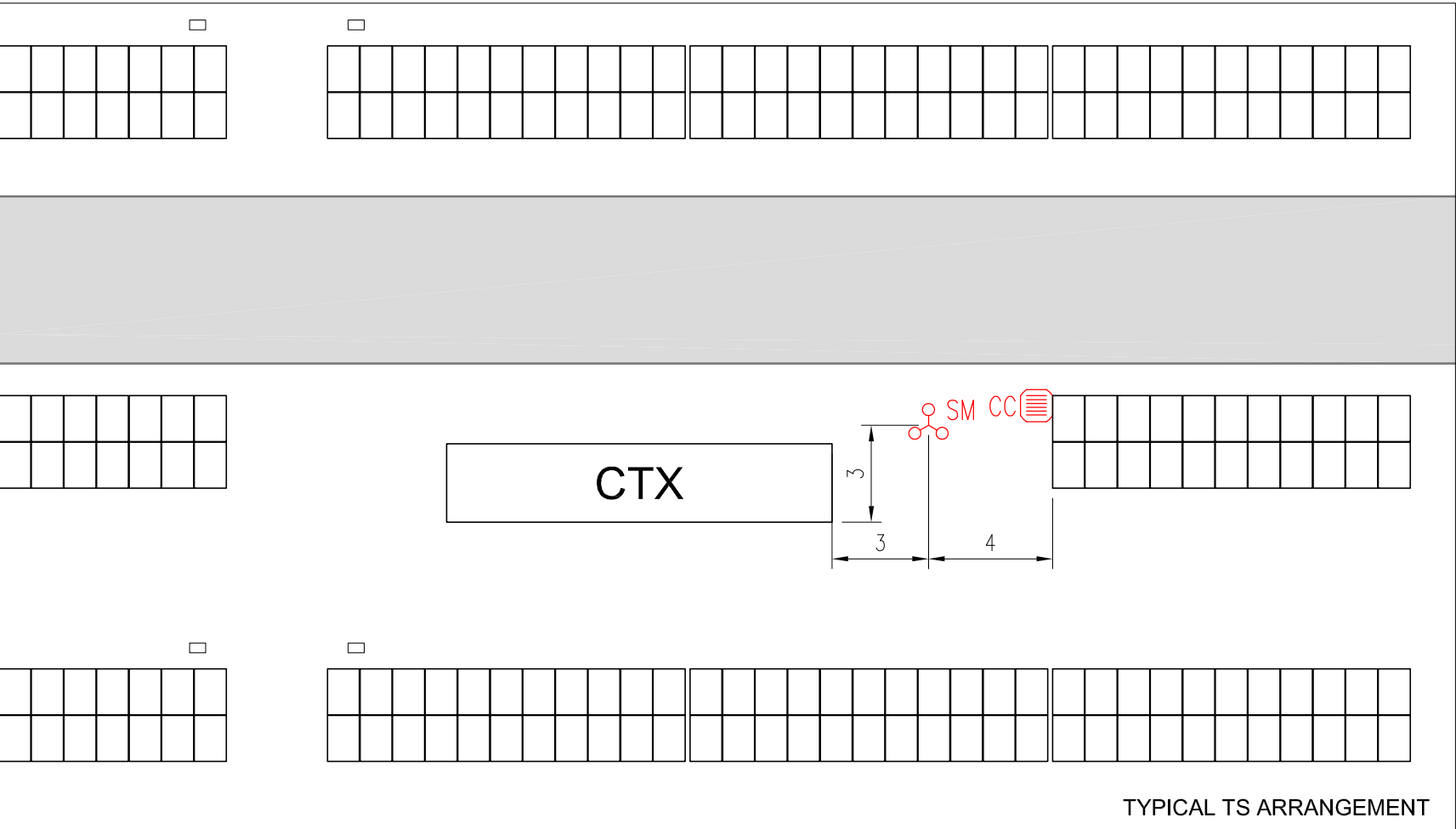
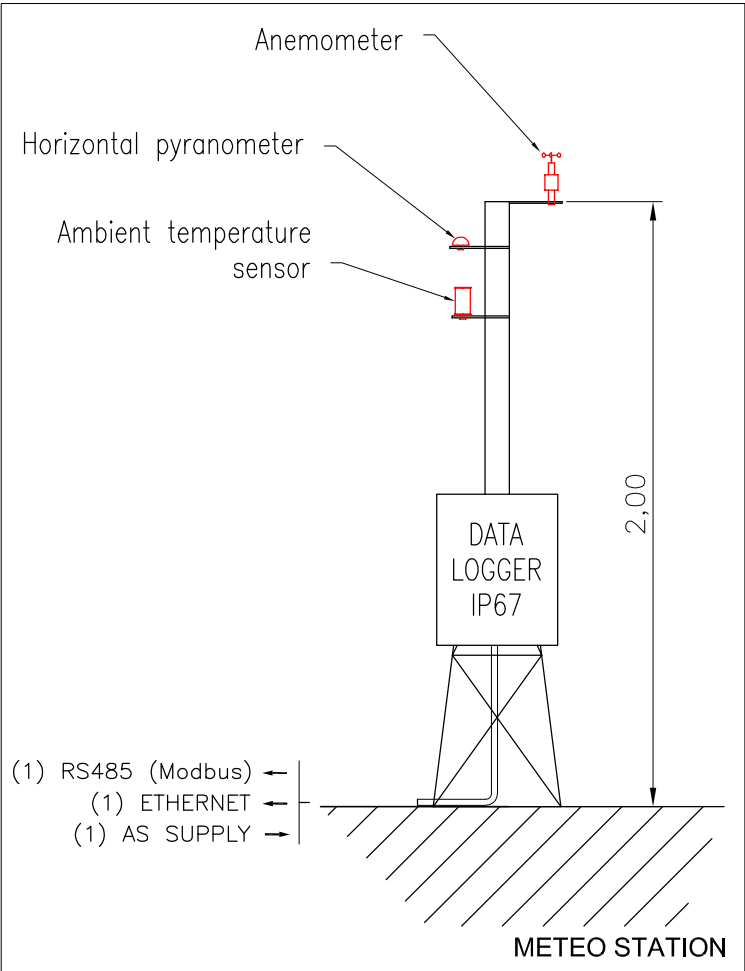
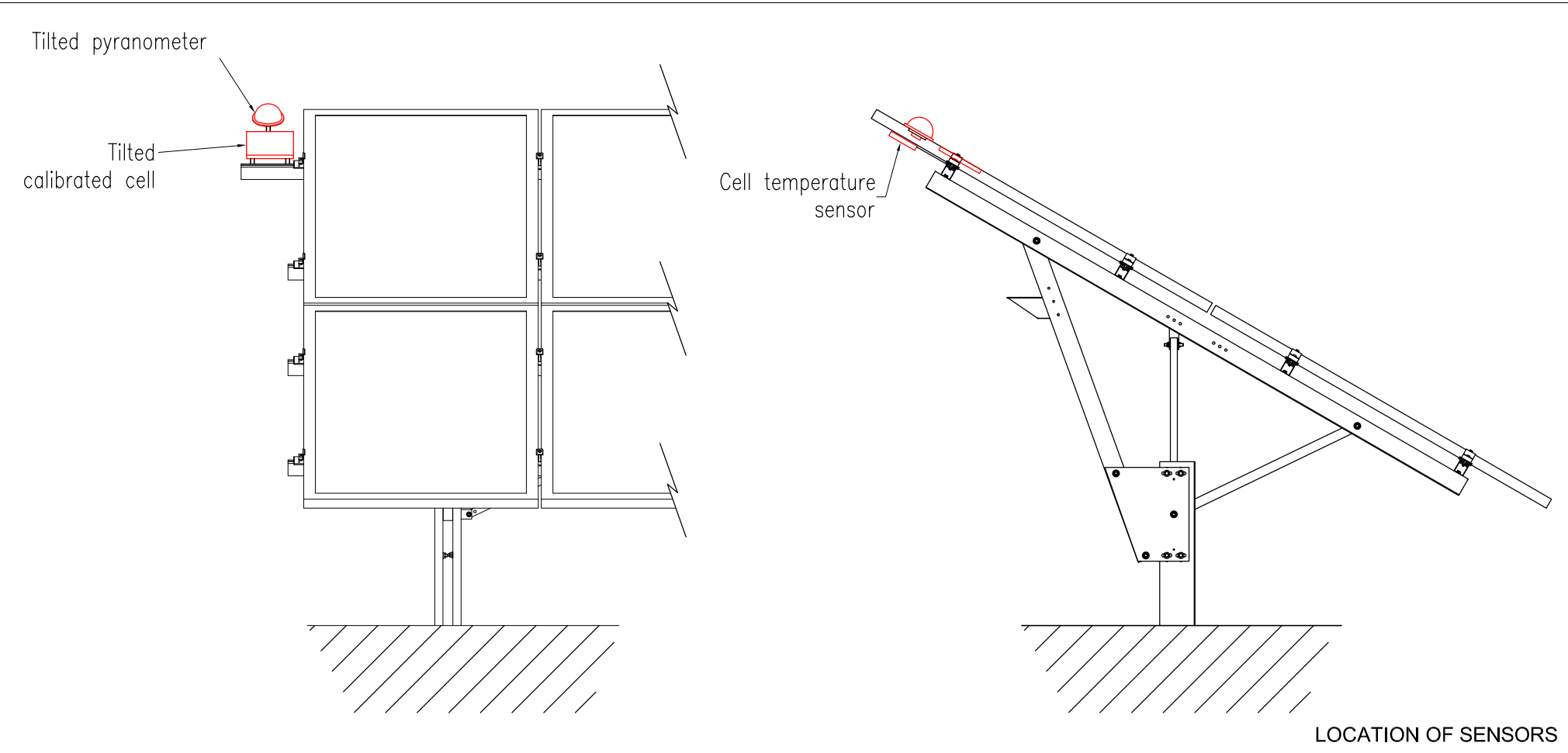
REVIEW: 2





PEAK POWER: 8,77 MWp
1661 STRINGS WITH 22 CHINT 240 Wp IN SERIES
INVERTERS TOTAL POWER: 7,50 MW



ibener				PROJECT: SEBIS I		DATE: 11/25/2024
DRAWING: LV EARTHING SYSTEM				LOCATION: SEBIS - ROMANIA		SCALE: 1:50
PROJECT CODE: 0205A				PROJECT NAME: SEBIS - ROMANIA		REVISION: 10
DEVELOPER: GIPEN				PROJECT CODE: 0205A		REVISION: 10
PROJECT CODE: 0205A				PROJECT NAME: SEBIS - ROMANIA		REVISION: 10

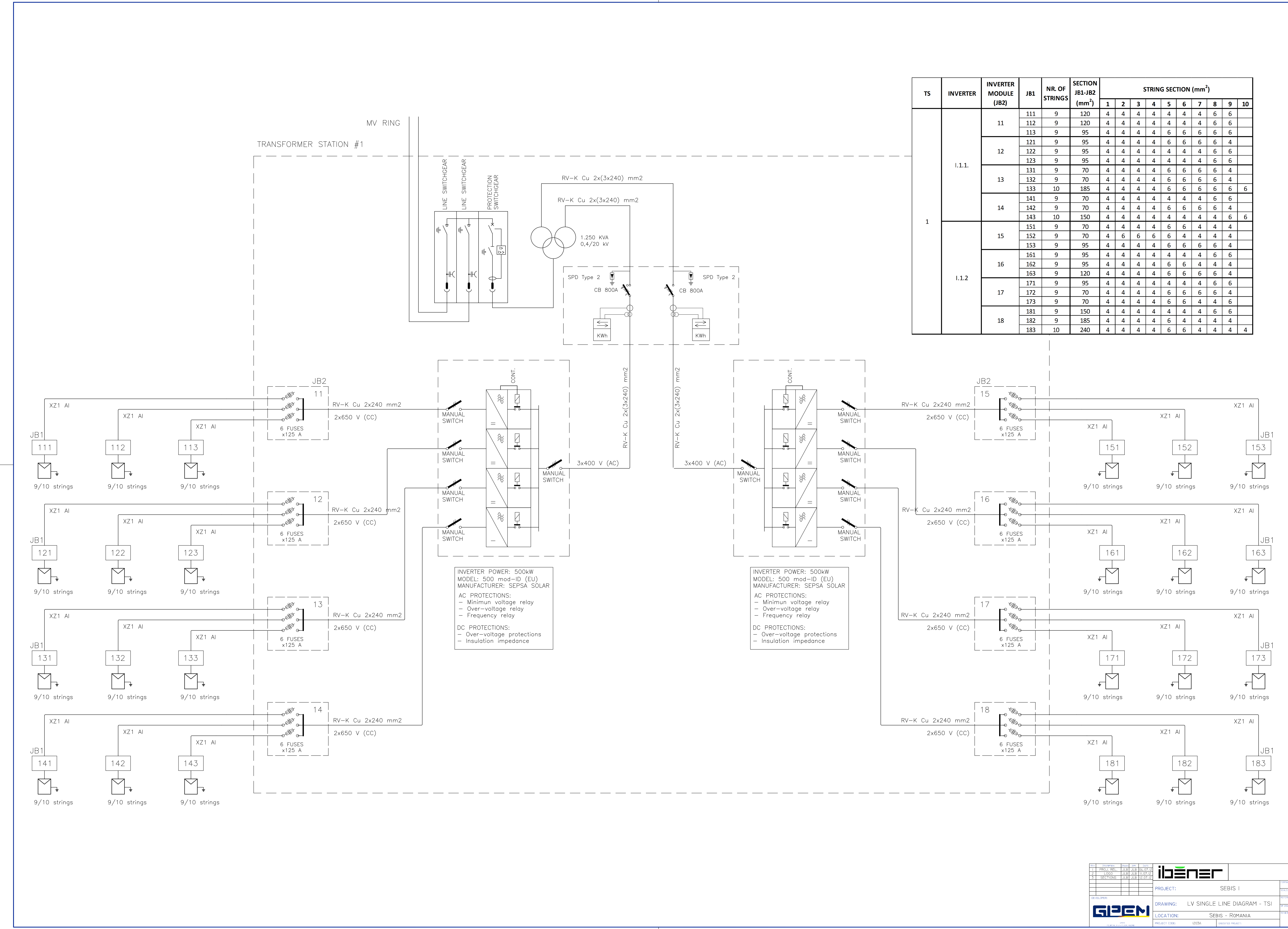


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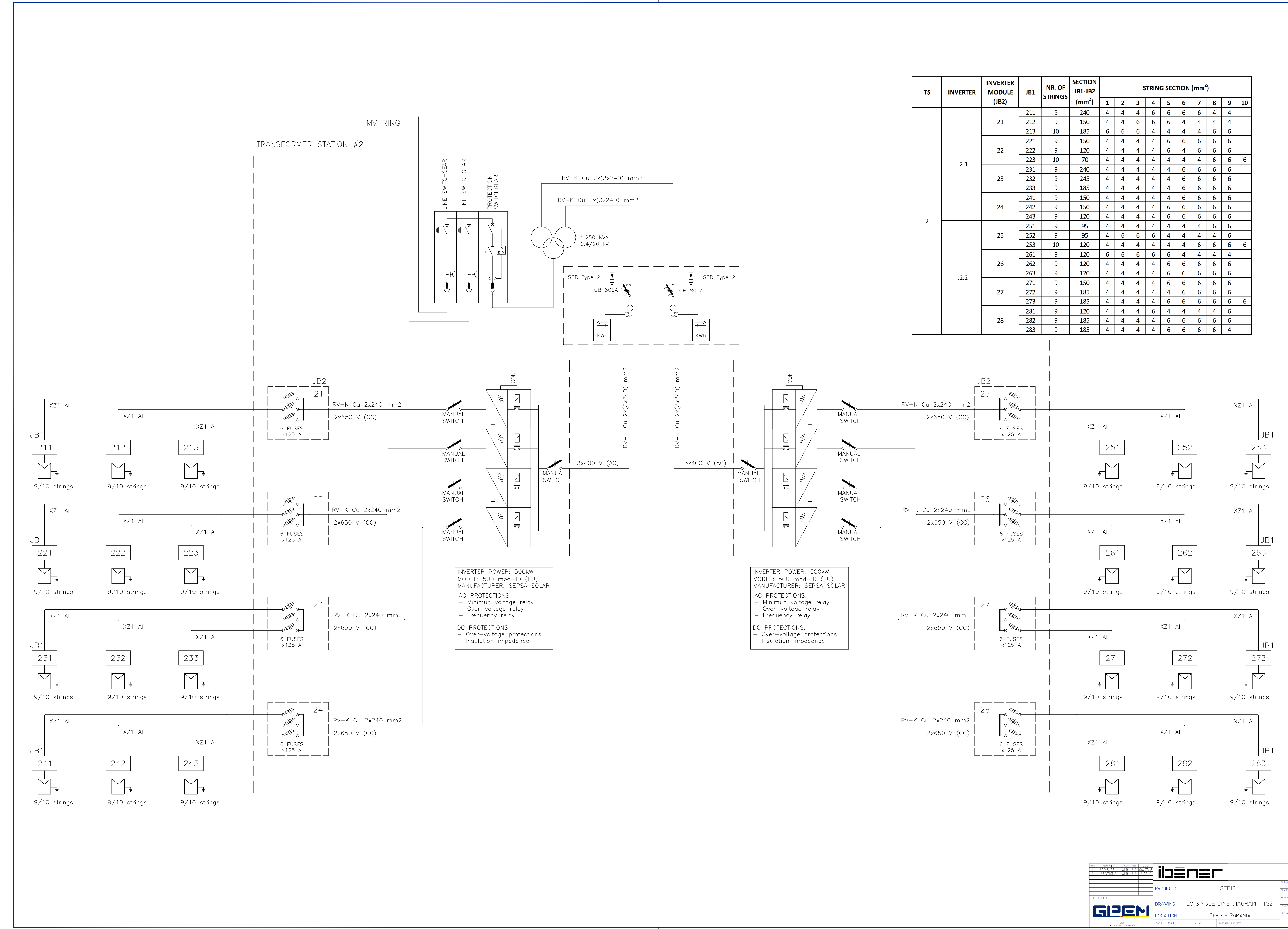
METEO STATION

CALIBRATED CELL

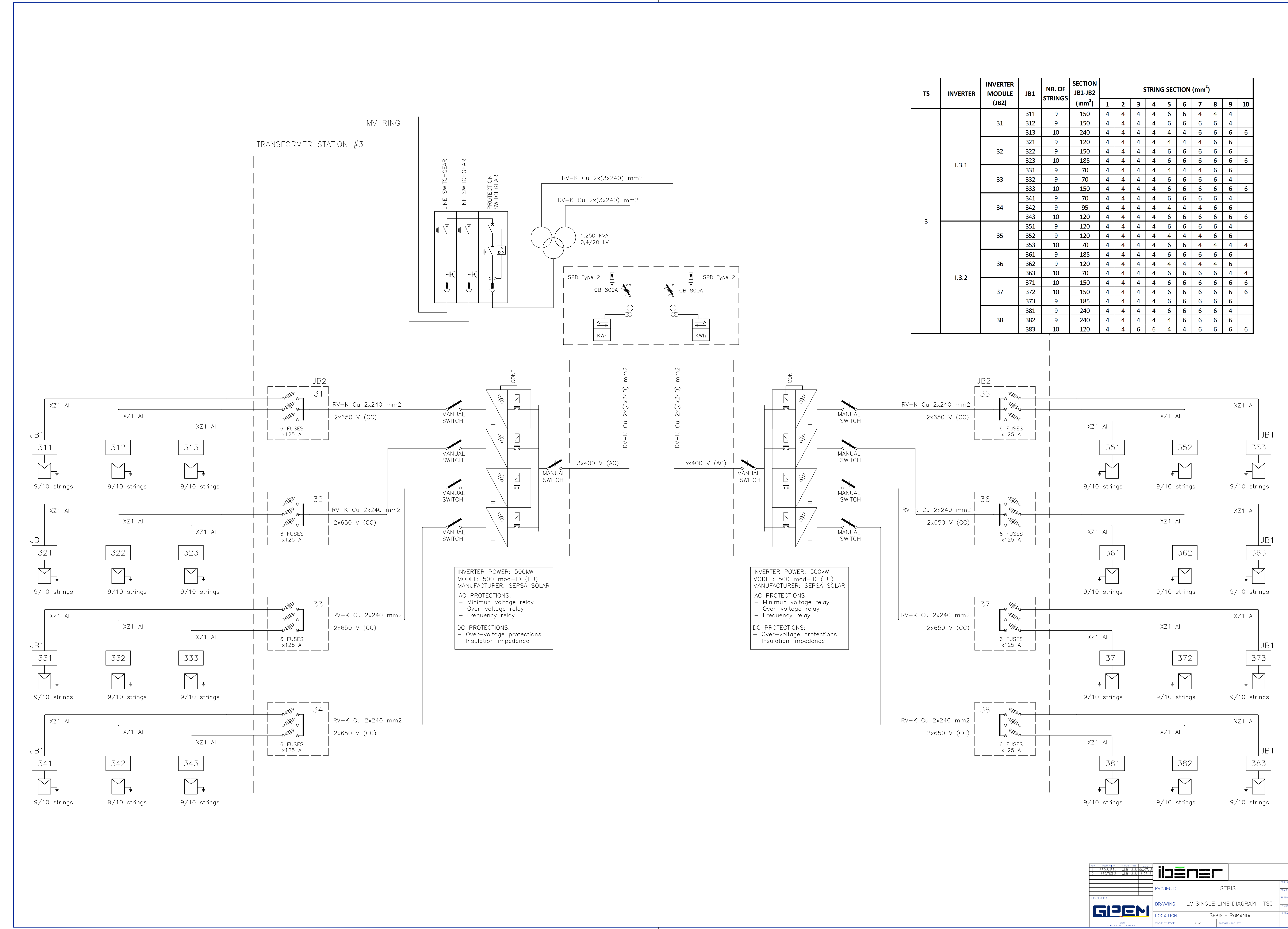
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					PROJECT:		FORMAT:	A3
							SCALE:	-
					DRAWING:		REFERENCE:	I203A
							Nº DRAWING:	17
DEVELOPER:					LOCATION:		REVIEW:	1
								
GIPEN FELIPE IV, 8 4TH FLOOR, MADRID					PROJECT CODE: I203A		EXECUTED PROJECT:	



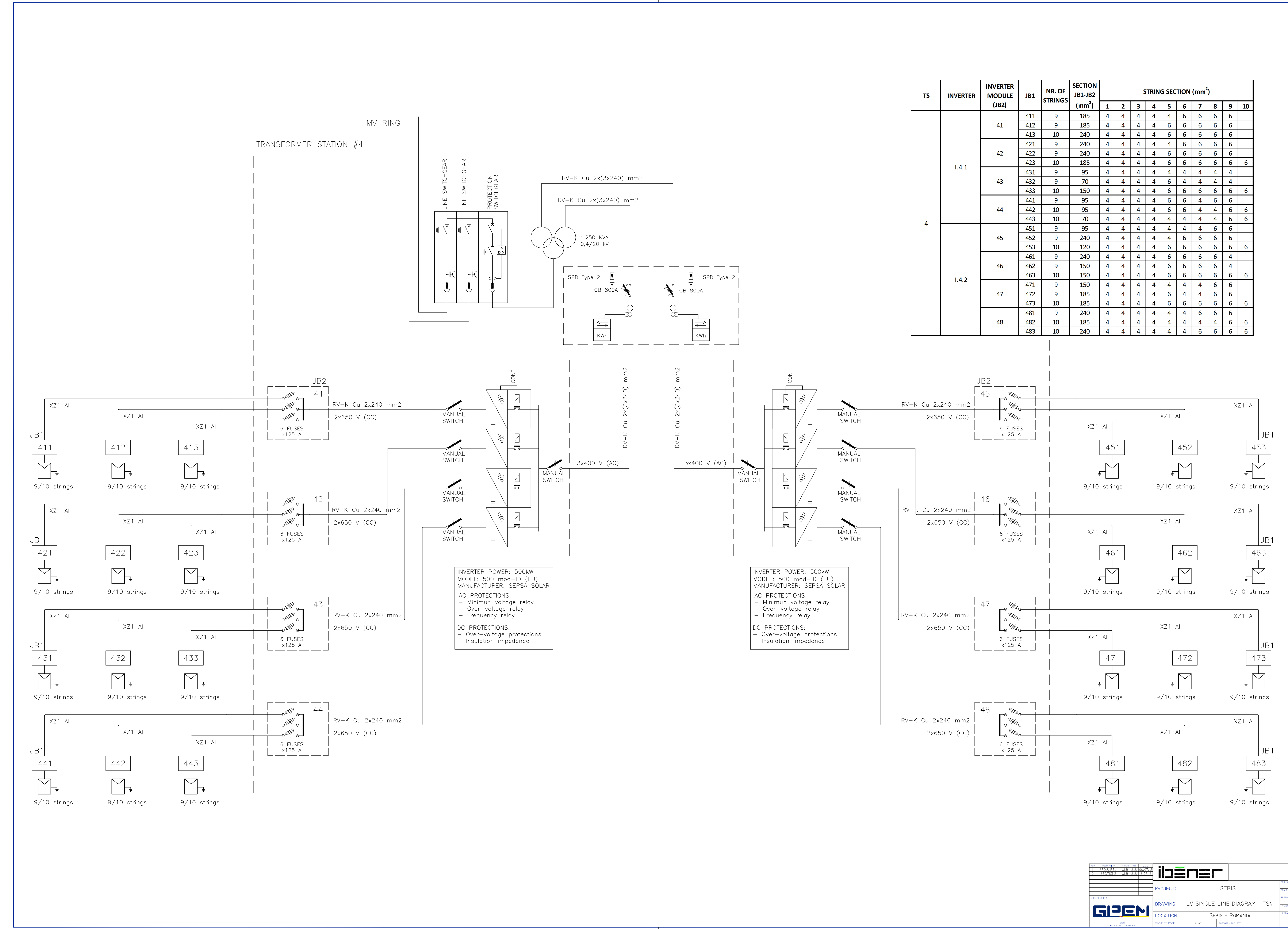
TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
1	I.1.1	11	111	9	120	4	4	4	4	4	4	4	6	6	
			112	9	120	4	4	4	4	4	4	4	6	6	
			113	9	95	4	4	4	4	4	6	6	6	6	
		12	121	9	95	4	4	4	4	6	6	6	6	4	
			122	9	95	4	4	4	4	4	4	4	6	6	
			123	9	95	4	4	4	4	4	6	6	6	6	
		13	131	9	70	4	4	4	4	6	6	6	6	4	
			132	9	70	4	4	4	4	6	6	6	6	4	
			133	10	185	4	4	4	4	4	6	6	6	6	6
		14	141	9	70	4	4	4	4	4	4	4	6	6	
			142	9	70	4	4	4	4	6	6	6	6	4	
			143	10	150	4	4	4	4	4	4	4	4	6	6
	I.1.2	15	151	9	70	4	4	4	4	6	6	4	4	4	
			152	9	70	4	6	6	6	6	4	4	4	4	
			153	9	95	4	4	4	4	6	6	6	6	4	
		16	161	9	95	4	4	4	4	4	4	4	6	6	
			162	9	95	4	4	4	4	6	6	4	4	4	
			163	9	120	4	4	4	4	6	6	6	6	4	
		17	171	9	95	4	4	4	4	4	4	4	6	6	
			172	9	70	4	4	4	4	6	6	6	6	4	
			173	9	70	4	4	4	4	6	6	4	4	6	
		18	181	9	150	4	4	4	4	4	4	4	6	6	
			182	9	185	4	4	4	4	6	4	4	4	4	
			183	10	240	4	4	4	4	6	6	4	4	4	4



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
2	I.2.1	21	211	9	240	4	4	4	6	6	6	6	4	4	
			212	9	150	4	4	6	6	6	4	4	4	4	
			213	10	185	6	6	6	4	4	4	4	6	6	
		22	221	9	150	4	4	4	4	6	6	6	6	6	
			222	9	120	4	4	4	4	6	4	6	6	6	
			223	10	70	4	4	4	4	4	4	4	6	6	6
		23	231	9	240	4	4	4	4	4	6	6	6	6	
			232	9	245	4	4	4	4	4	6	6	6	6	
			233	9	185	4	4	4	4	4	6	6	6	6	
		24	241	9	150	4	4	4	4	4	6	6	6	6	
			242	9	150	4	4	4	4	4	6	6	6	6	
			243	9	120	4	4	4	4	4	6	6	6	6	
	I.2.2	25	251	9	95	4	4	4	4	4	4	4	4	6	6
			252	9	95	4	6	6	6	6	4	4	4	4	6
			253	10	120	4	4	4	4	4	4	4	6	6	6
		26	261	9	120	6	6	6	6	6	4	4	4	4	4
			262	9	120	4	4	4	4	4	6	6	6	6	6
			263	9	120	4	4	4	4	4	6	6	6	6	6
		27	271	9	150	4	4	4	4	6	6	6	6	6	
			272	9	185	4	4	4	4	4	6	6	6	6	
			273	9	185	4	4	4	4	4	6	6	6	6	6
		28	281	9	120	4	4	4	6	4	4	4	4	4	6
			282	9	185	4	4	4	4	6	6	6	6	6	6
			283	9	185	4	4	4	4	6	6	6	6	4	



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
3	I.3.1	31	311	9	150	4	4	4	4	6	6	4	4	4	
			312	9	150	4	4	4	4	6	6	6	6	4	
			313	10	240	4	4	4	4	4	4	6	6	6	6
		32	321	9	120	4	4	4	4	4	4	4	6	6	
			322	9	150	4	4	4	4	6	6	6	6	6	
			323	10	185	4	4	4	4	6	6	6	6	6	6
		33	331	9	70	4	4	4	4	4	4	4	6	6	
			332	9	70	4	4	4	4	6	6	6	6	4	
			333	10	150	4	4	4	4	6	6	6	6	6	6
		34	341	9	70	4	4	4	4	6	6	6	6	4	
			342	9	95	4	4	4	4	4	4	4	6	6	
			343	10	120	4	4	4	4	4	6	6	6	6	6
	I.3.2	35	351	9	120	4	4	4	4	6	6	6	6	4	
			352	9	120	4	4	4	4	4	4	4	6	6	
			353	10	70	4	4	4	4	6	6	4	4	4	4
		36	361	9	185	4	4	4	4	6	6	6	6	6	
			362	9	120	4	4	4	4	4	4	4	4	6	
			363	10	70	4	4	4	4	4	6	6	6	4	4
		37	371	10	150	4	4	4	4	6	6	6	6	6	6
			372	10	150	4	4	4	4	6	6	6	6	6	6
			373	9	185	4	4	4	4	4	6	6	6	6	
		38	381	9	240	4	4	4	4	6	6	6	6	4	
			382	9	240	4	4	4	4	4	6	6	6	6	
			383	10	120	4	4	6	6	4	4	6	6	6	6



TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
4	I.4.1	41	411	9	185	4	4	4	4	4	6	6	6	6	
			412	9	185	4	4	4	4	6	6	6	6	6	
			413	10	240	4	4	4	4	6	6	6	6	6	
		42	421	9	240	4	4	4	4	4	6	6	6	6	
			422	9	240	4	4	4	4	6	6	6	6	6	
			423	10	185	4	4	4	4	6	6	6	6	6	6
		43	431	9	95	4	4	4	4	4	4	4	4	4	
			432	9	70	4	4	4	4	6	4	4	4	4	
			433	10	150	4	4	4	4	6	6	6	6	6	6
		44	441	9	95	4	4	4	4	6	6	4	6	6	
			442	10	95	4	4	4	4	6	6	4	4	6	6
			443	10	70	4	4	4	4	4	4	4	4	6	6
	I.4.2	45	451	9	95	4	4	4	4	4	4	4	4	6	6
			452	9	240	4	4	4	4	4	6	6	6	6	
			453	10	120	4	4	4	4	4	6	6	6	6	6
		46	461	9	240	4	4	4	4	6	6	6	6	4	
			462	9	150	4	4	4	4	6	6	6	6	4	
			463	10	150	4	4	4	4	6	6	6	6	6	6
		47	471	9	150	4	4	4	4	4	4	4	4	6	6
			472	9	185	4	4	4	4	6	4	4	6	6	
			473	10	185	4	4	4	4	6	6	6	6	6	6
		48	481	9	240	4	4	4	4	4	4	6	6	6	
			482	10	185	4	4	4	4	4	4	4	4	6	6
			483	10	240	4	4	4	4	4	4	6	6	6	6

INVERTER POWER: 500kW
MODEL: 500 mod-ID (EU)
MANUFACTURER: SEPSA SOLAR

AC PROTECTIONS:

- Minimum voltage relay
- Over-voltage relay
- Frequency relay

DC PROTECTIONS:

- Over-voltage protections
- Insulation impedance

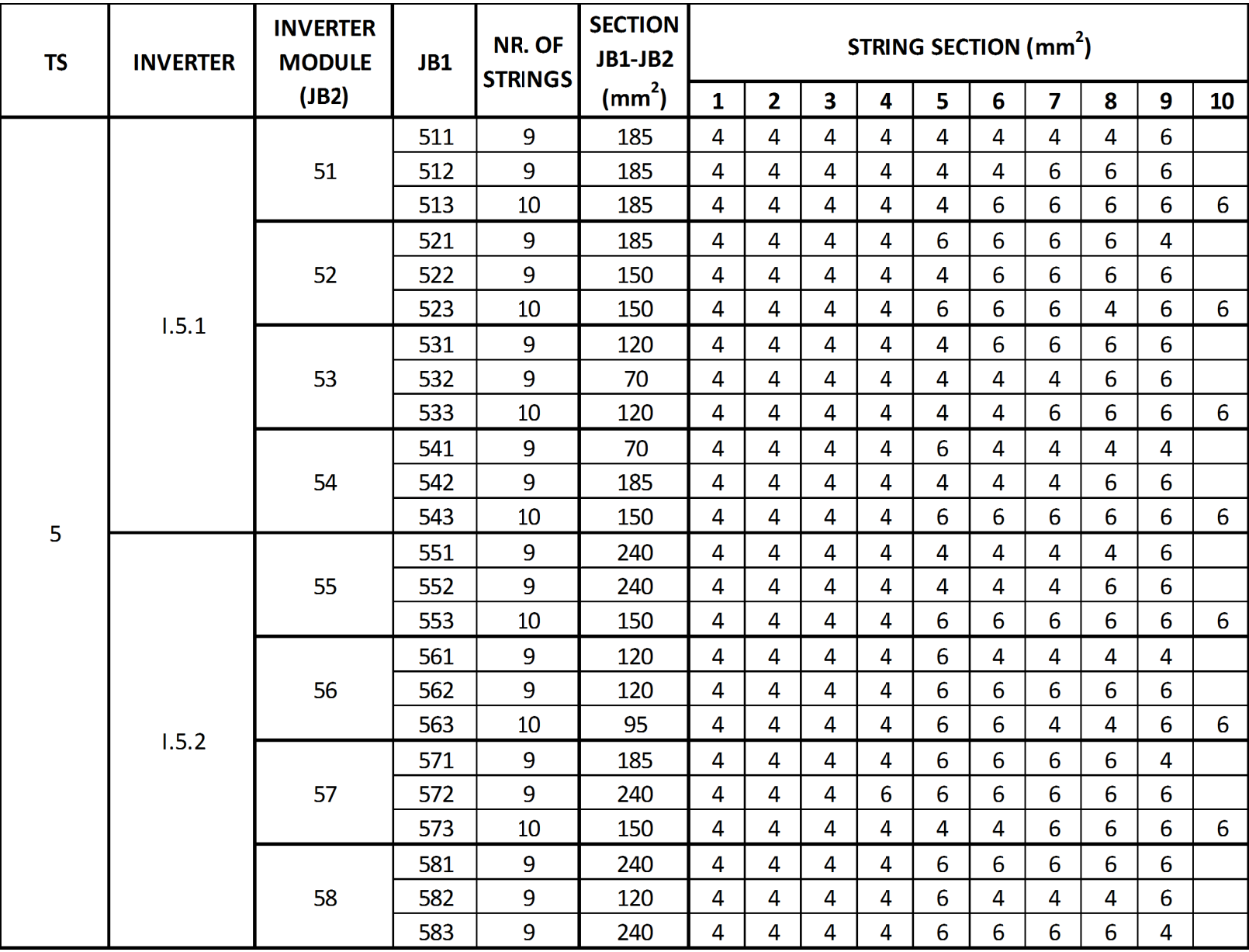
INVERTER POWER: 500kW
MODEL: 500 mod-ID (EU)
MANUFACTURER: SEPSA SOLAR

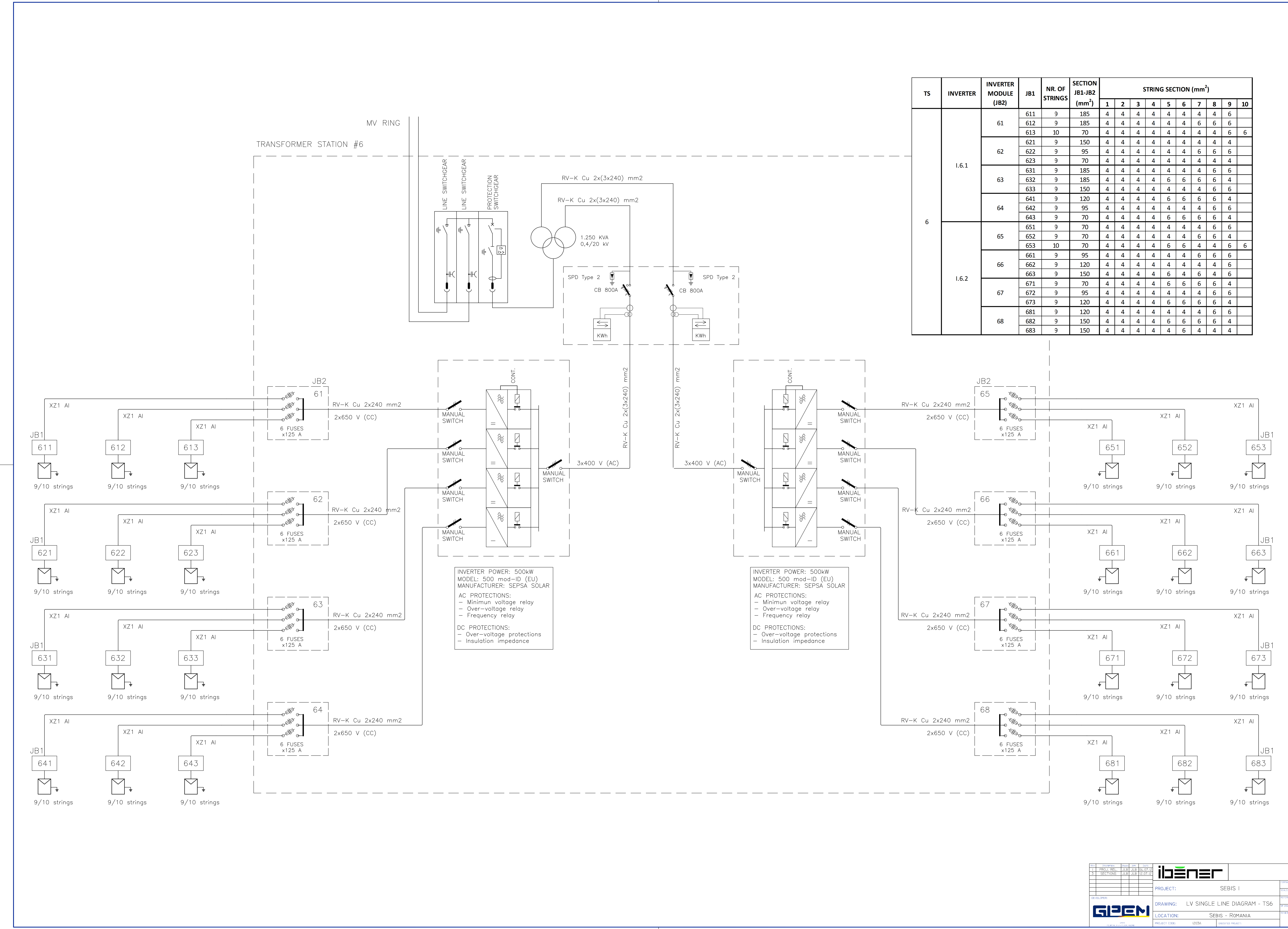
AC PROTECTIONS:

- Minimum voltage relay
- Over-voltage relay
- Frequency relay

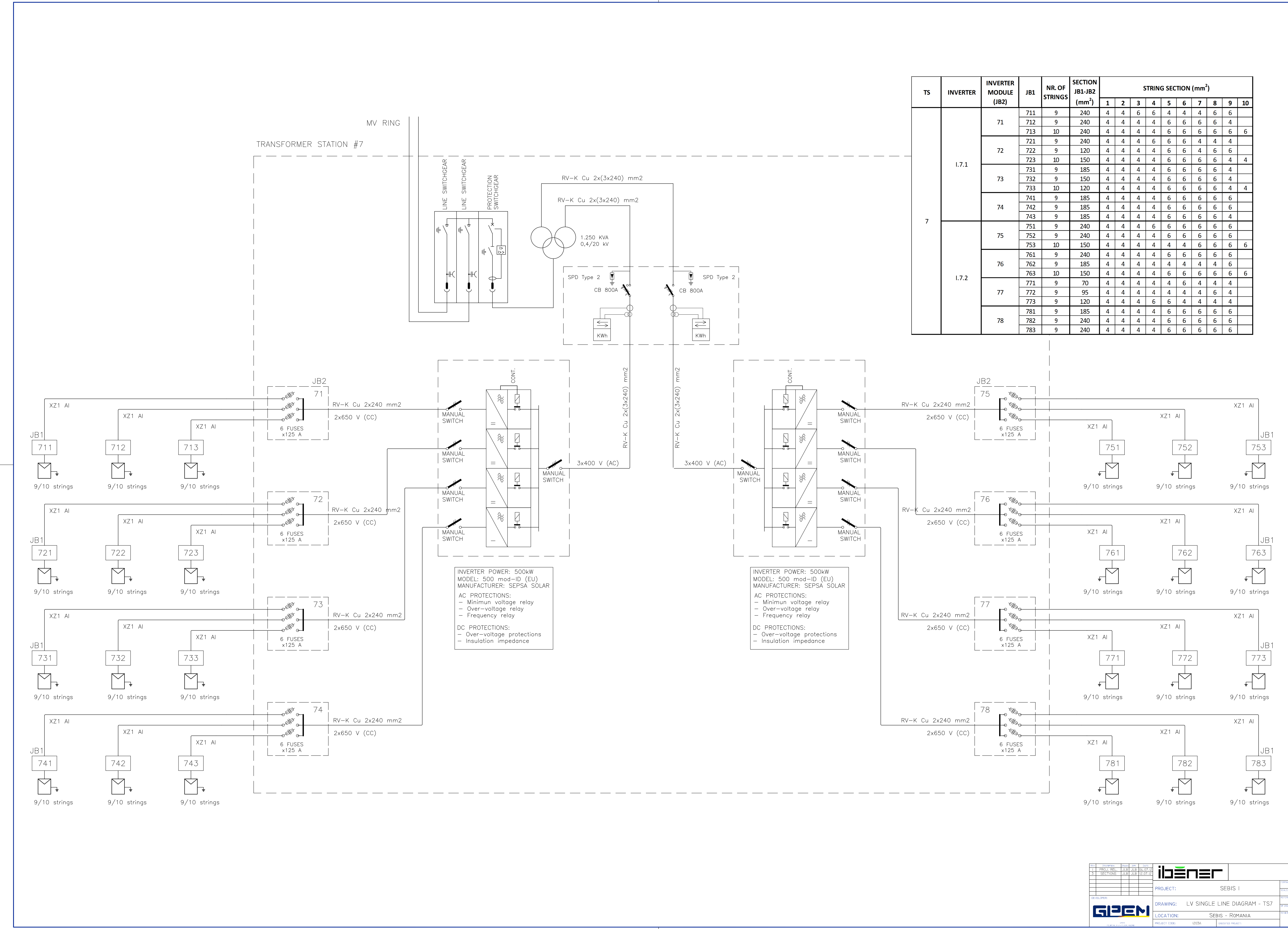
DC PROTECTIONS:

- Over-voltage protections
- Insulation impedance





TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
6	I.6.1	61	611	9	185	4	4	4	4	4	4	4	4	6	
			612	9	185	4	4	4	4	4	4	6	6	6	
			613	10	70	4	4	4	4	4	4	4	4	6	6
		62	621	9	150	4	4	4	4	4	4	4	4	4	
			622	9	95	4	4	4	4	4	4	6	6	6	
			623	9	70	4	4	4	4	4	4	4	4	4	
		63	631	9	185	4	4	4	4	4	4	4	6	6	
			632	9	185	4	4	4	4	6	6	6	6	4	
			633	9	150	4	4	4	4	4	4	4	4	6	6
		64	641	9	120	4	4	4	4	6	6	6	6	4	
			642	9	95	4	4	4	4	4	4	4	6	6	
			643	9	70	4	4	4	4	4	6	6	6	4	
	I.6.2	65	651	9	70	4	4	4	4	4	4	4	6	6	
			652	9	70	4	4	4	4	4	4	6	6	4	
			653	10	70	4	4	4	4	6	6	4	4	6	6
		66	661	9	95	4	4	4	4	4	4	6	6	6	
			662	9	120	4	4	4	4	4	4	4	4	6	
			663	9	150	4	4	4	4	4	6	4	6	4	
		67	671	9	70	4	4	4	4	6	6	6	6	4	
			672	9	95	4	4	4	4	4	4	4	6	6	
			673	9	120	4	4	4	4	6	6	6	6	4	
		68	681	9	120	4	4	4	4	4	4	4	6	6	
			682	9	150	4	4	4	4	6	6	6	6	4	
			683	9	150	4	4	4	4	4	6	4	4	4	



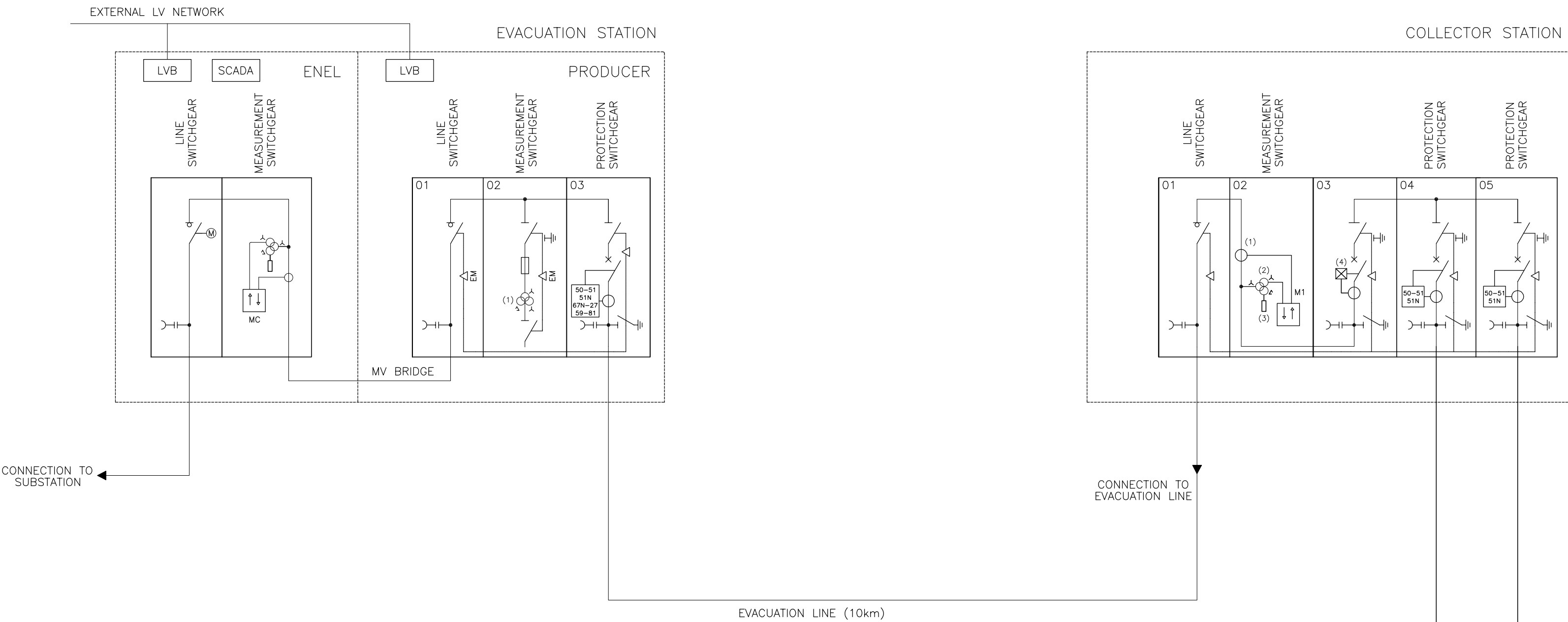
TS	INVERTER	INVERTER MODULE (JB2)	JB1	NR. OF STRINGS	SECTION JB1-JB2 (mm²)	STRING SECTION (mm²)									
						1	2	3	4	5	6	7	8	9	10
7	I.7.1	71	711	9	240	4	4	6	6	4	4	4	6	6	
			712	9	240	4	4	4	4	6	6	6	6	4	
			713	10	240	4	4	4	4	6	6	6	6	6	6
		72	721	9	240	4	4	4	6	6	6	4	4	4	
			722	9	120	4	4	4	4	6	6	4	6	6	
			723	10	150	4	4	4	4	6	6	6	6	4	4
		73	731	9	185	4	4	4	4	6	6	6	6	4	
			732	9	150	4	4	4	4	6	6	6	6	4	
			733	10	120	4	4	4	4	6	6	6	6	4	4
		74	741	9	185	4	4	4	4	6	6	6	6	6	
			742	9	185	4	4	4	4	6	6	6	6	6	
			743	9	185	4	4	4	4	6	6	6	6	4	
	I.7.2	75	751	9	240	4	4	4	6	6	6	6	6	6	
			752	9	240	4	4	4	4	6	6	6	6	6	
			753	10	150	4	4	4	4	4	6	6	6	6	6
		76	761	9	240	4	4	4	4	6	6	6	6	6	
			762	9	185	4	4	4	4	4	4	4	4	4	
			763	10	150	4	4	4	4	4	6	6	6	6	6
		77	771	9	70	4	4	4	4	4	6	4	4	4	
			772	9	95	4	4	4	4	4	4	4	6	4	
			773	9	120	4	4	4	6	6	4	4	4	4	
		78	781	9	185	4	4	4	4	6	6	6	6	6	
			782	9	240	4	4	4	4	6	6	6	6	6	
			783	9	240	4	4	4	4	6	6	6	6	6	

EVACUATION STATION FUNCTIONAL UNITS

- 01 OUTGOING LINE: SWITCH UNIT (IM) – 630A
02 MAINS VOLTAGE METERING: VOLTAGE TRANSFORMERS (CM)
03 CONNECTION PROTECTION: VACUUM CIRCUIT BREAKER (DMVL–A) – 630A/20KA

(1) CONNECTION PROTECTION MEASUREMENT:

- 3 VT double winding:
primary: 22000/V3
secondary protection 59,27,81M–m: 110/V3 Class 0,5 50 VA
secondary protection 64L: 110/3 Class 3P 50 VA with ferro resonance dumping



COLLECTOR STATION FUNCTIONAL UNITS

- 01 OUTGOING LINE: SWITCH UNIT (IM) – 630A
02 PRIVATE METERING: MEASUREMENT UNIT (GBC–A)
03 NIGHT DISCONNECT: VACUUM CIRCUIT BREAKER (DMVL–A) – 630A/20KA
04 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL–A) – 630A/20KA
05 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL–A) – 630A/20KA

(1) GENERATION METERING (PRIVATE):

- 3 CT 300–600/5 Class 0,2 S 10 VA

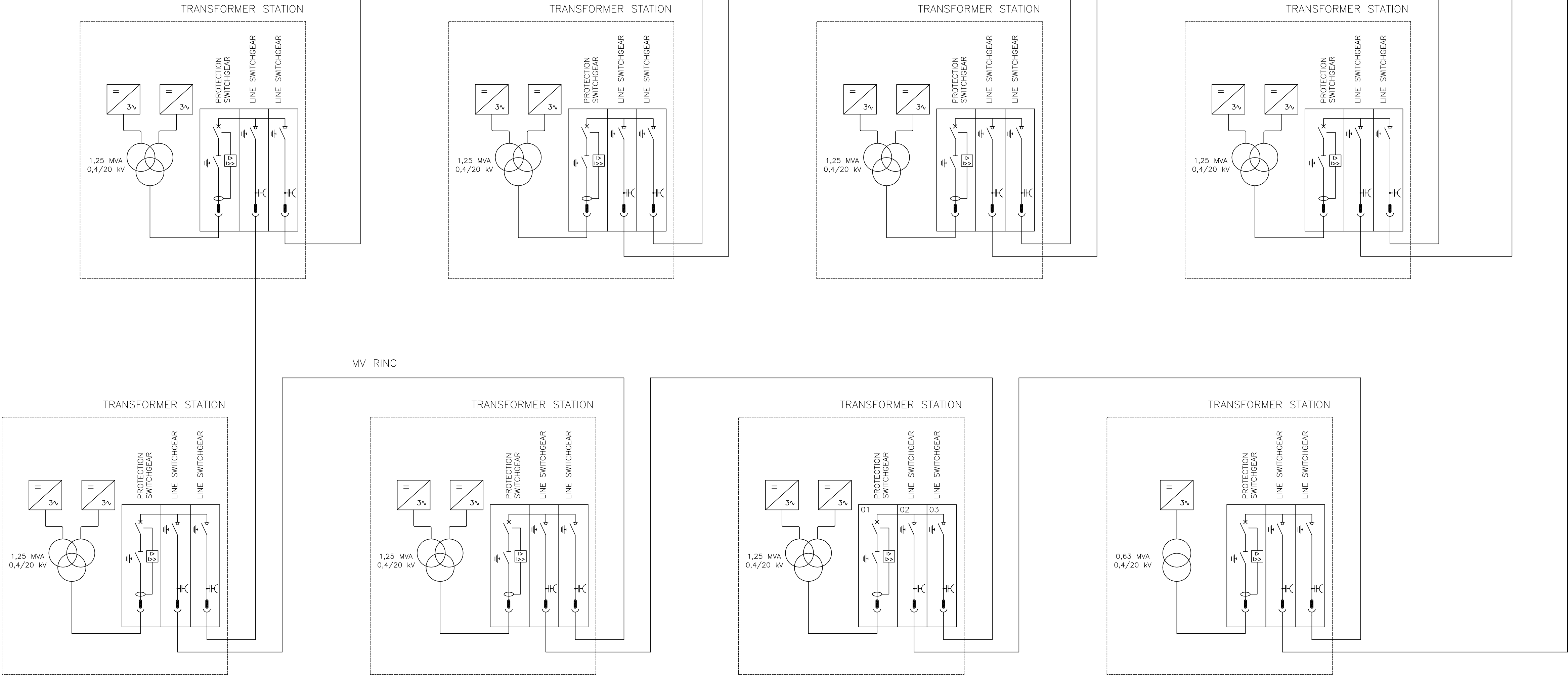
(2) GENERATION METERING (PRIVATE):

- 3 VT double winding:
primary: 22000/V3
secondary metering: 110/V3 Class 0,2 25 VA
secondary ferro resonance resistor: 110/3 Class 3P 50 VA

(3) FERRO RESONANCE DUMPING RESISTOR

- (4) NIGHT DISCONNECTION TO AVOID TRANSFORMER CONSUMPTION

MV RING

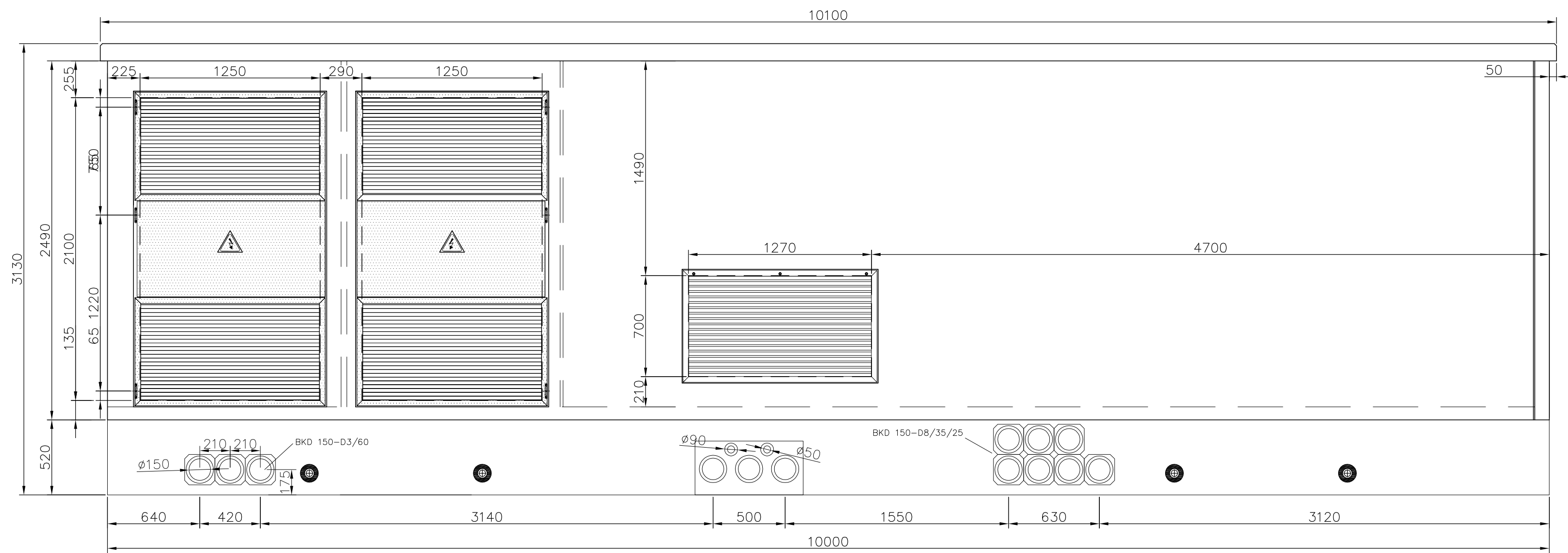


TRANSFORMER STATION FUNCTIONAL UNITS

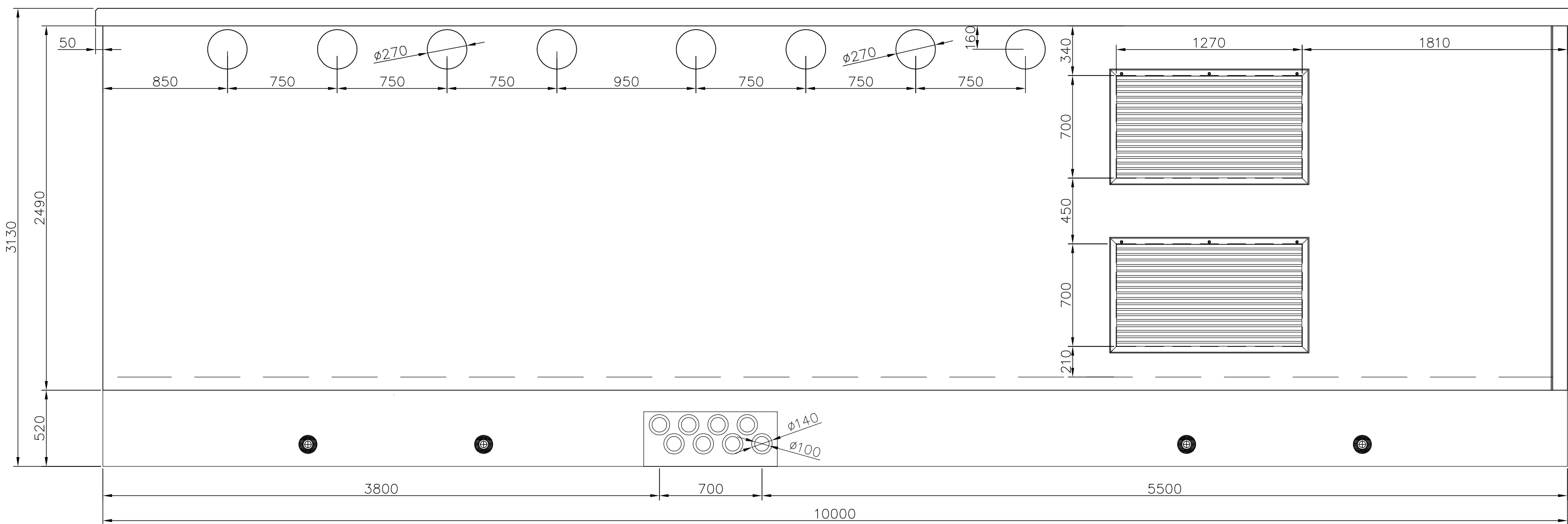
- 01 TRANSFORMER PROTECTION: VACUUM CIRCUIT BREAKER (DMVL–A) – 630A/16KA
02 INCOMING LINE: SWITCH UNIT (IM) – 630A
03 OUTGOING LINE: SWITCH UNIT (IM) – 630A

TRANSFORMER

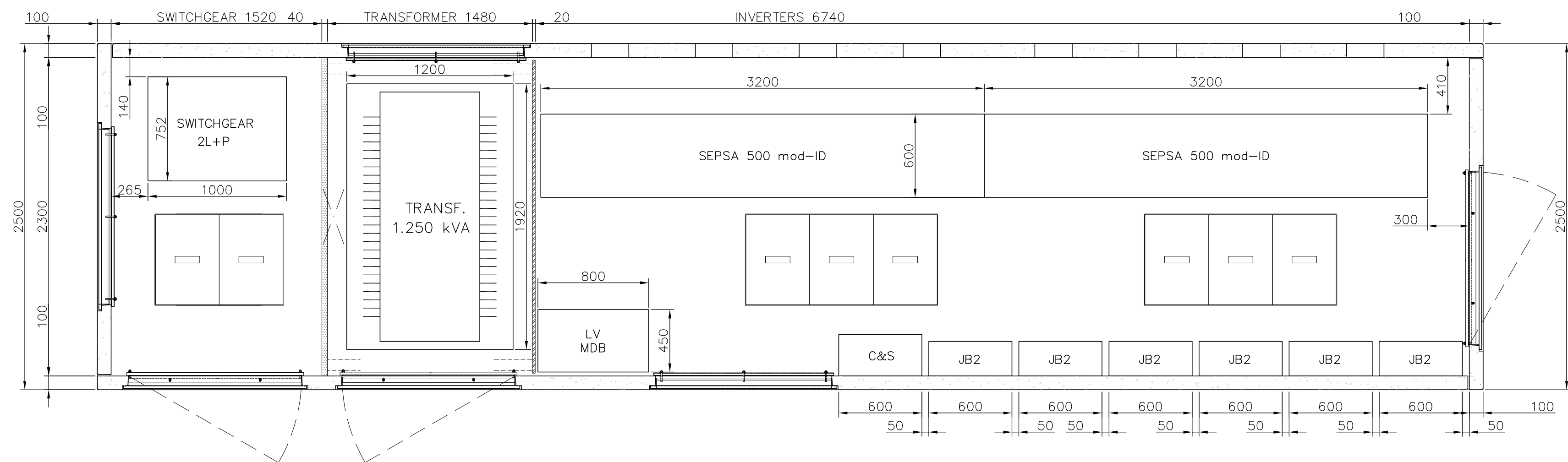
- RATED POWER: 1.250 kVA
– RATIO: 400V / 20 kV
– REGULATION: 20 kV +2.5% +5% +7.5% +10%
– CONNECTION GROUP: Dyn11
– COOLING: ONAN



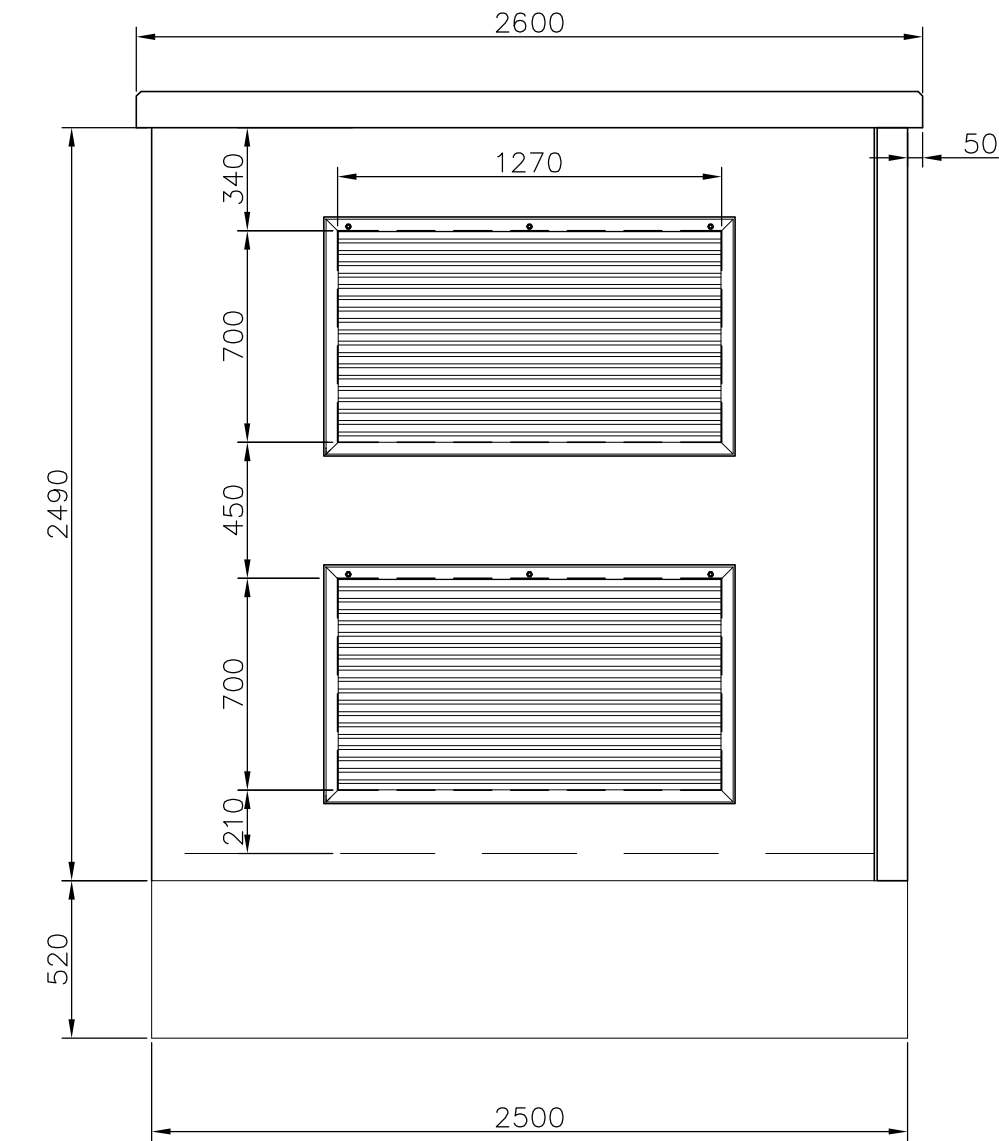
FRONT VIEW



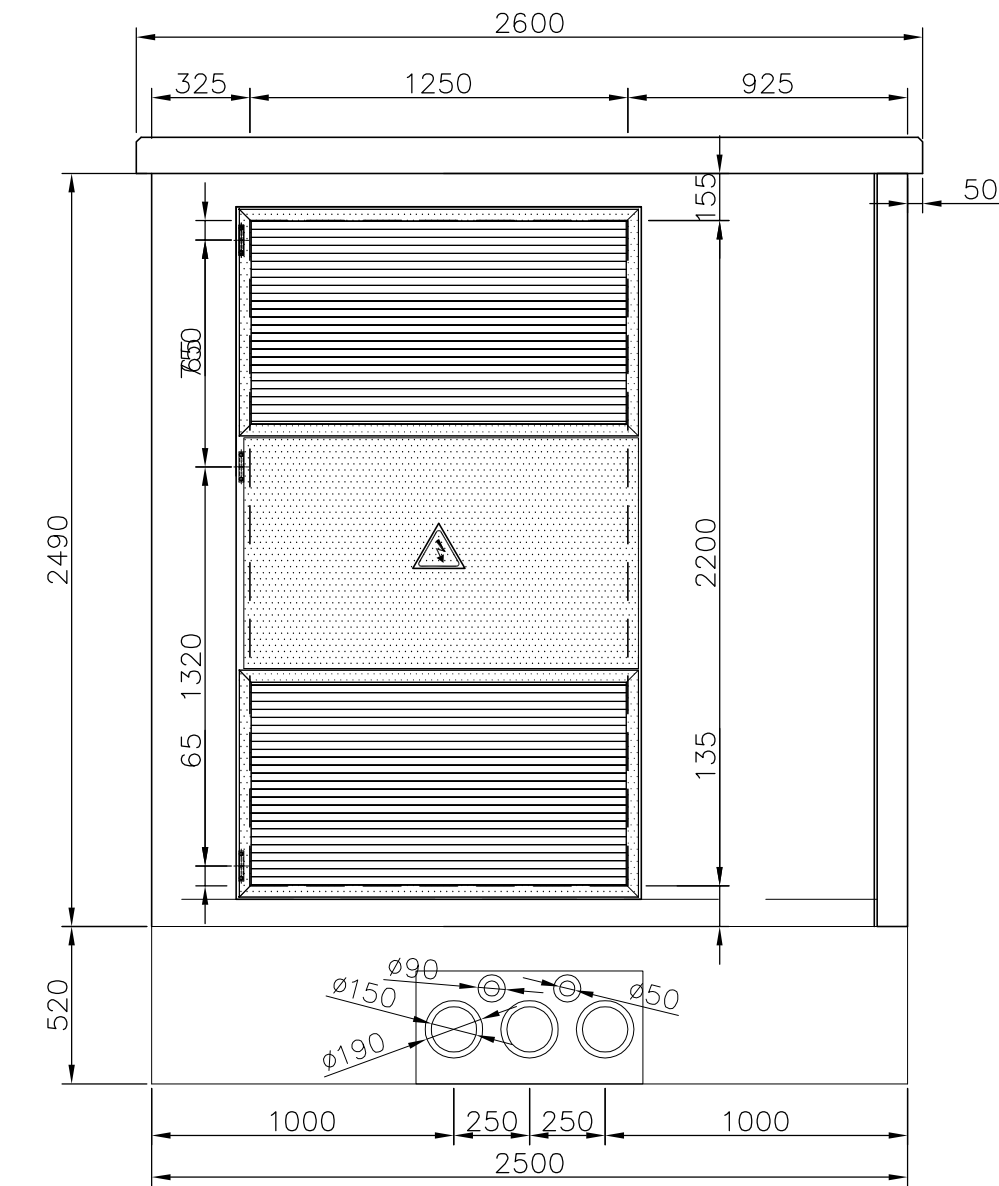
REAR VIEW



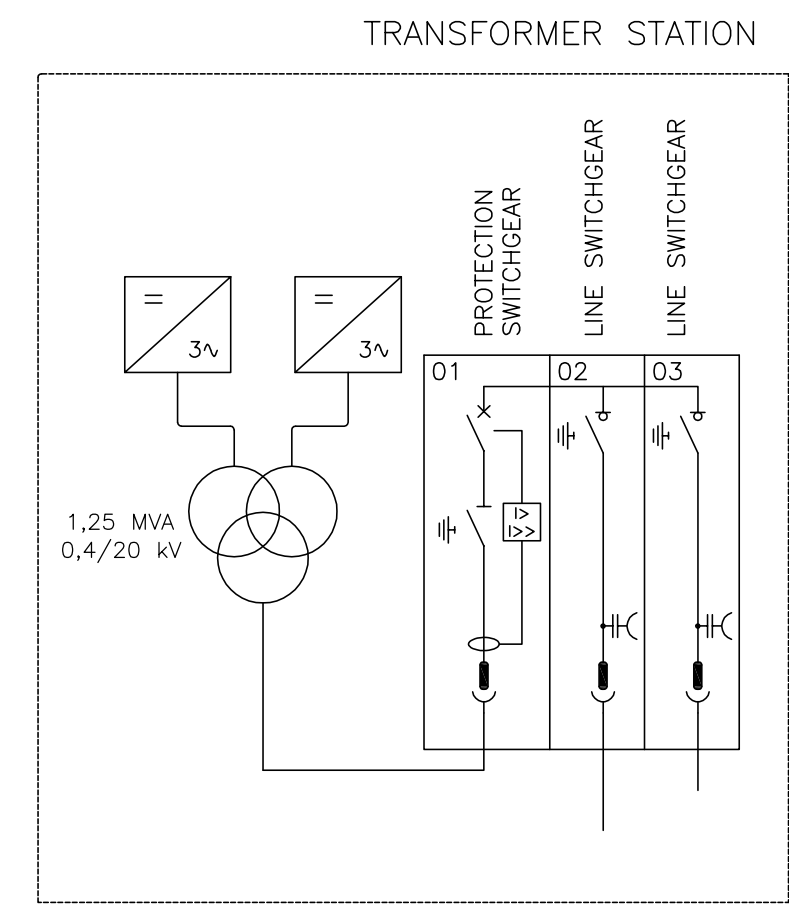
1.250 kVA TRANSFORMER STATION (2 INVERTERS x 500 Kw)
EQUIPMENT LAYOUT



SIDE VIEW 1

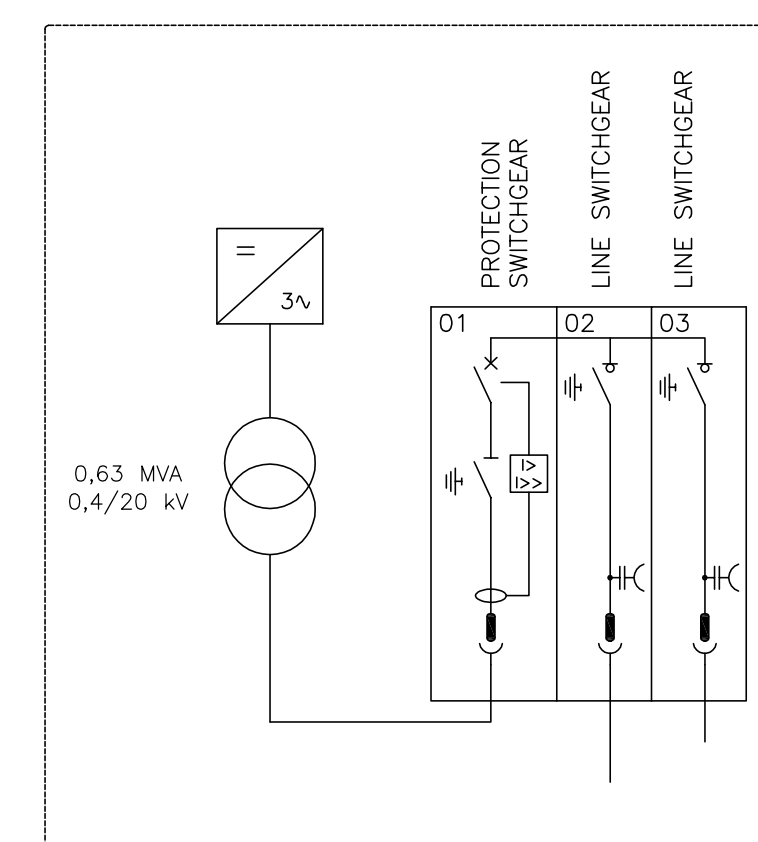
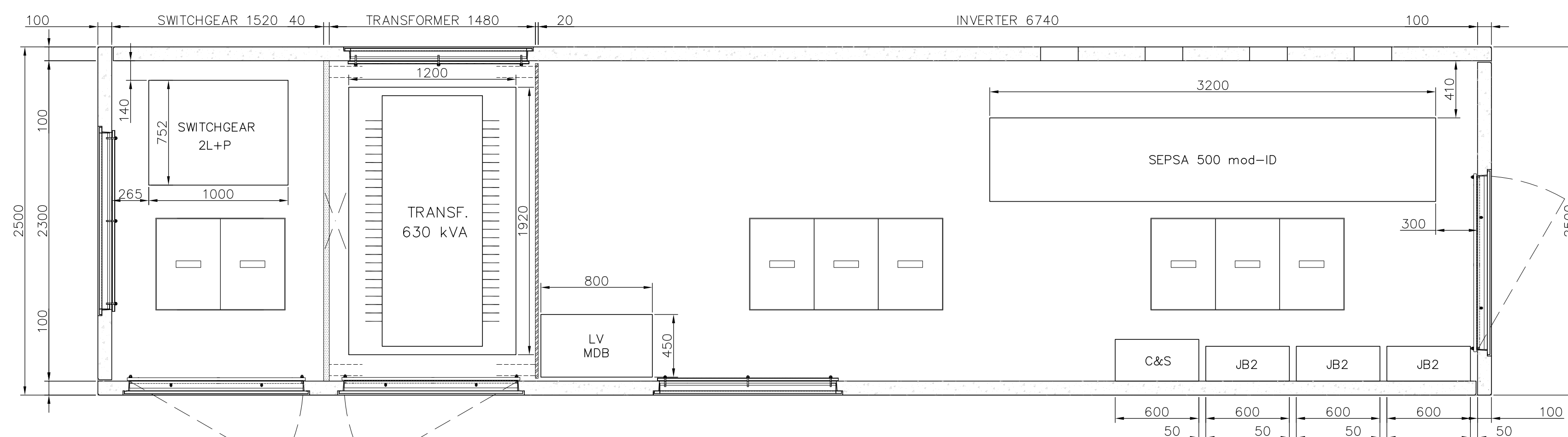
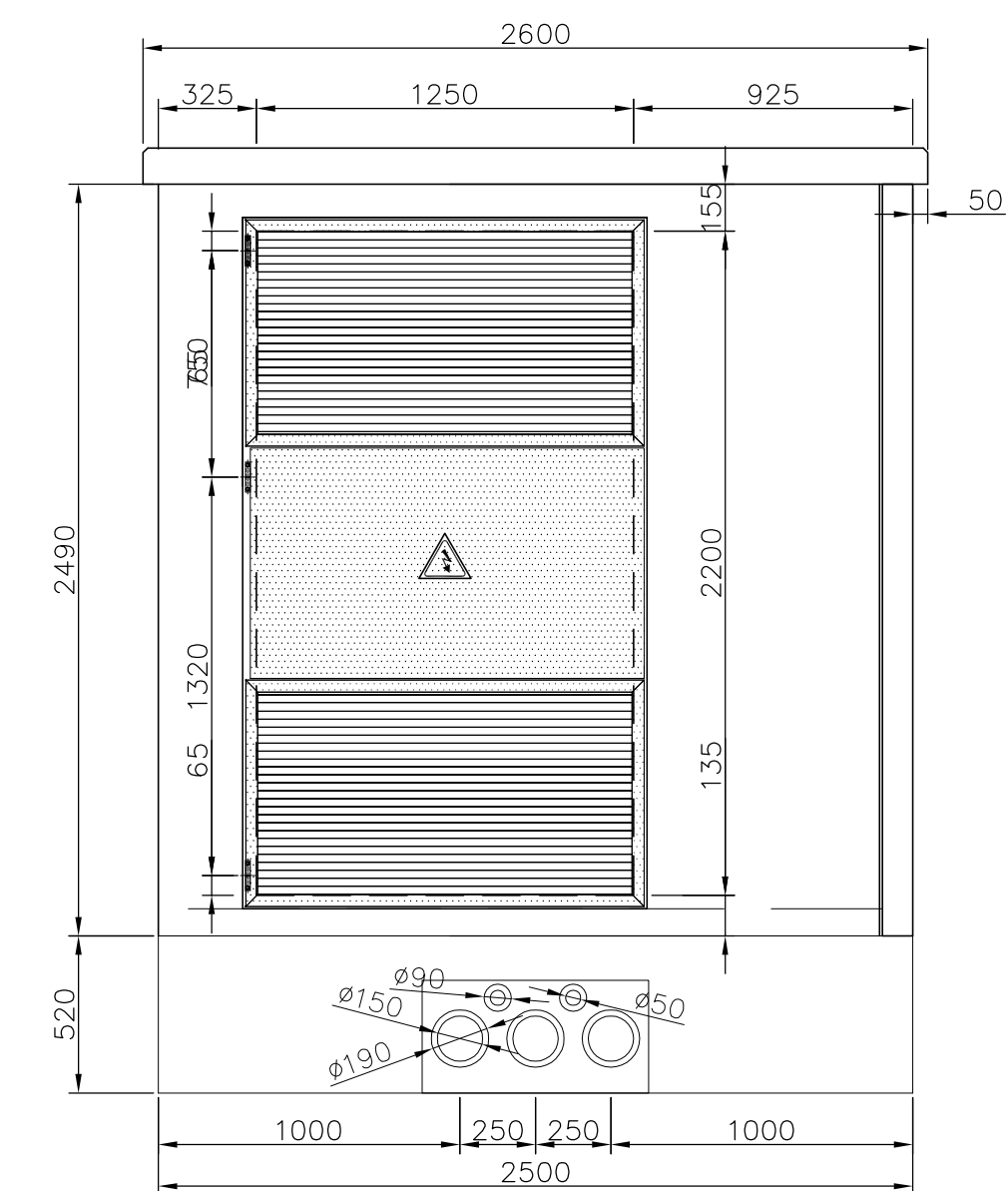
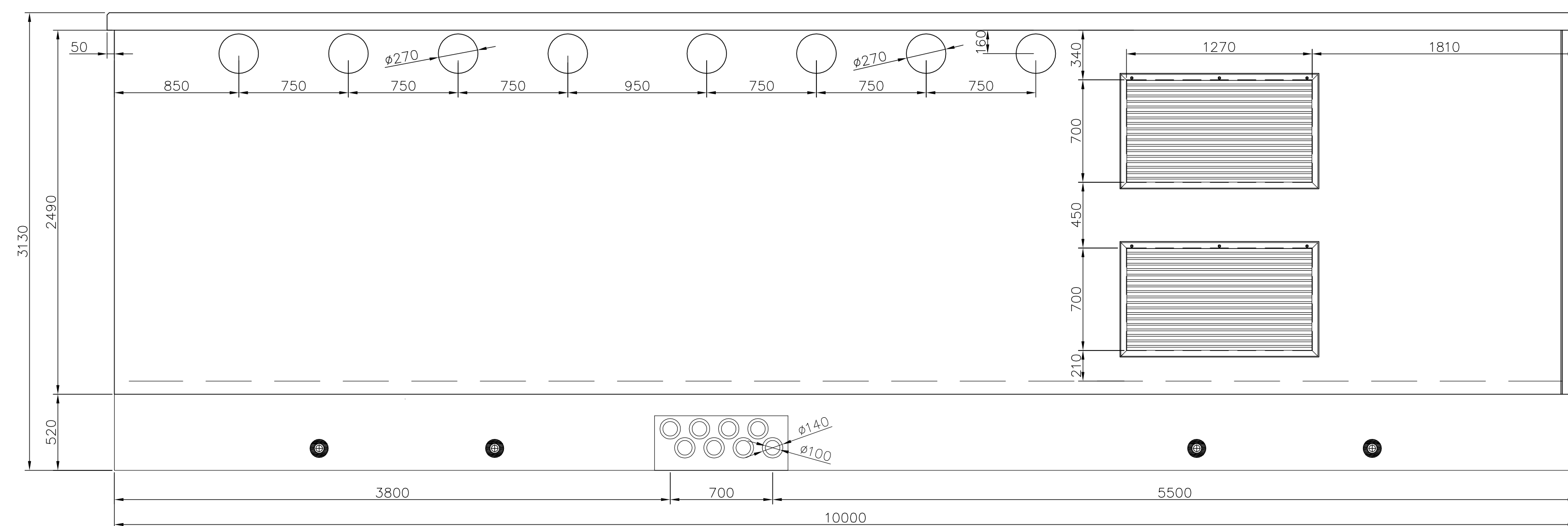
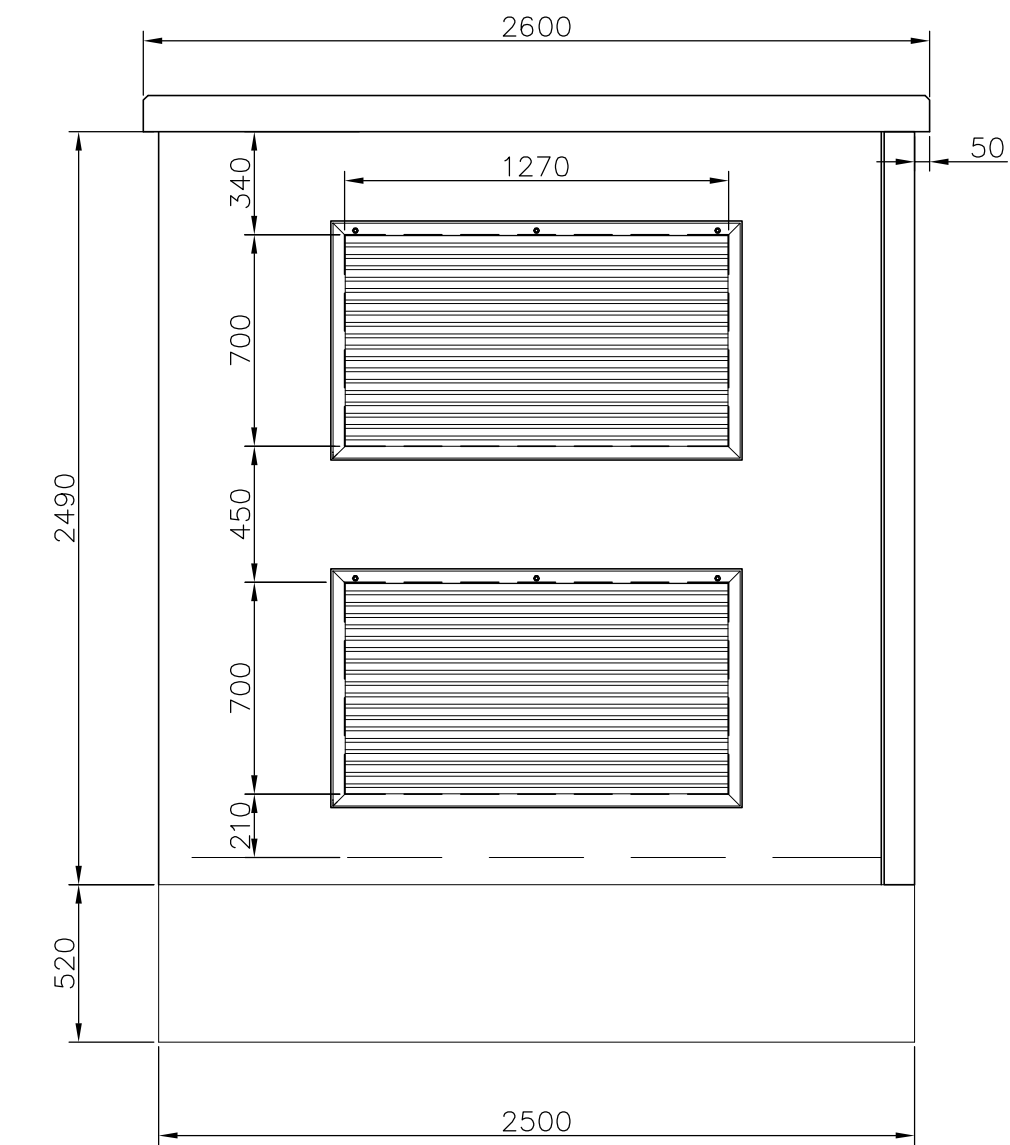
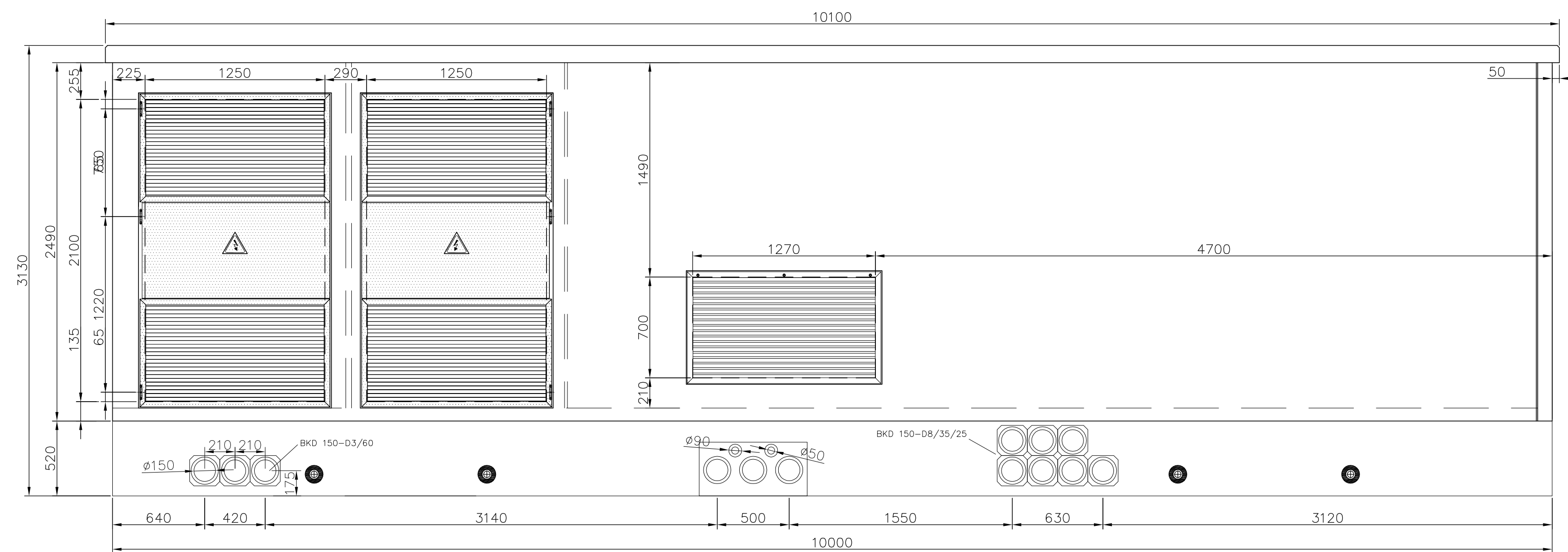


SIDE VIEW 2



SINGLE LINE DIAGRAM

- TRANSFORMER STATION FUNCTIONAL UNITS
- TRANSFORMER PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/16KA
 - INCOMING LINE: SWITCH UNIT (IM) – 630A
 - OUTGOING LINE: SWITCH UNIT (IM) – 630A
- TRANSFORMER
- RATED POWER: 1.250 kVA
 - RATIO: 400V / 20 kV
 - REGULATION: 20 kV +2.5% +5% +7.5% +10%
 - CONNECTION GROUP: Dyn11
 - COOLING: ONAN



TRANSFORMER STATION FUNCTIONAL UNITS

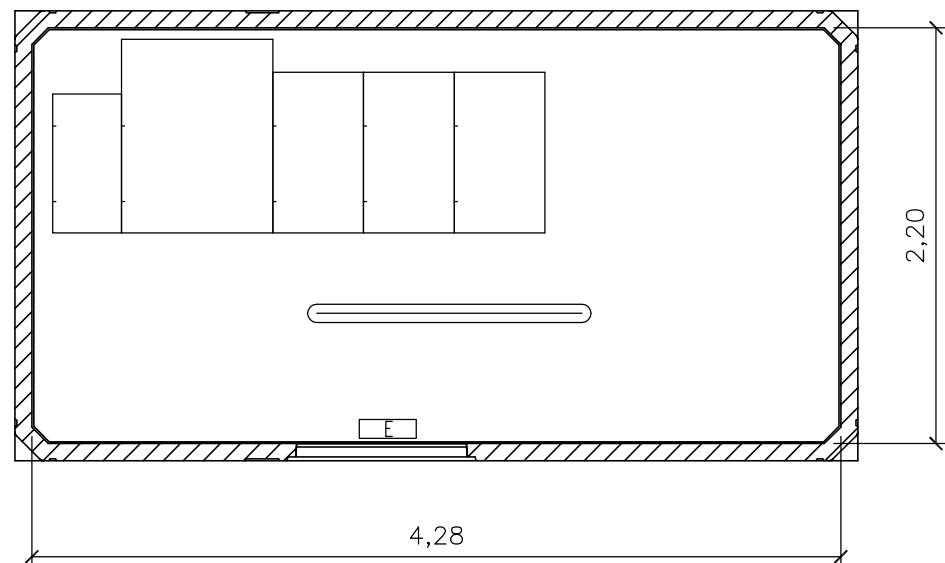
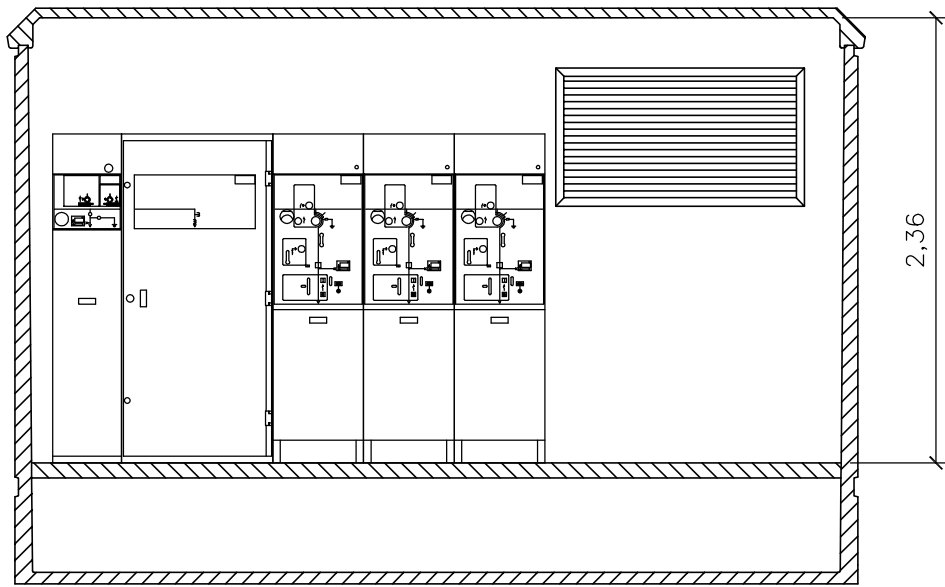
TRANSFORMER PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/16KA

INCOMING LINE: SWITCH UNIT (IM) - 630A

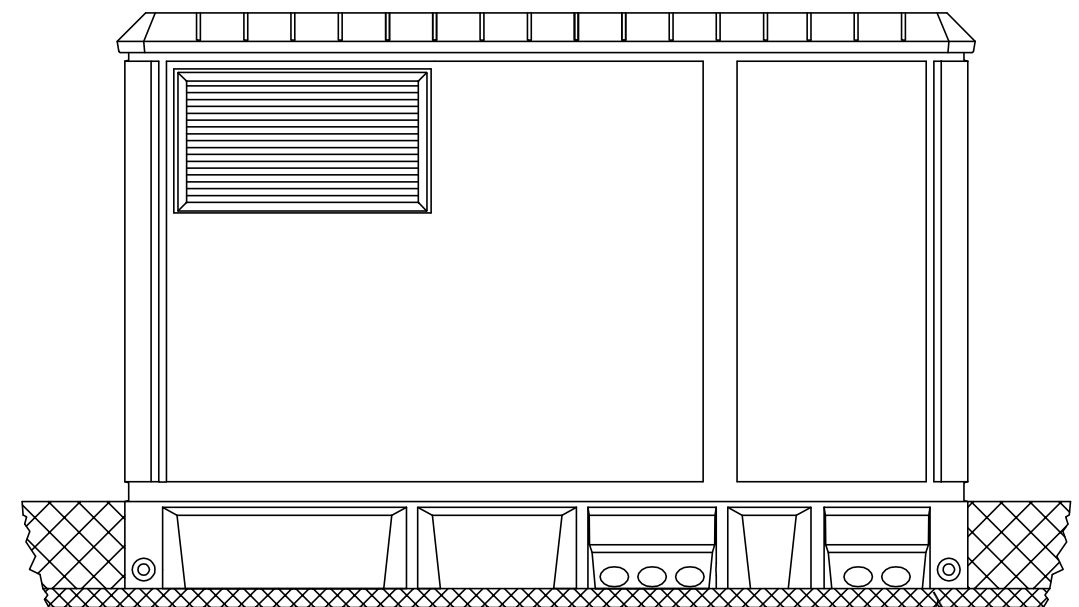
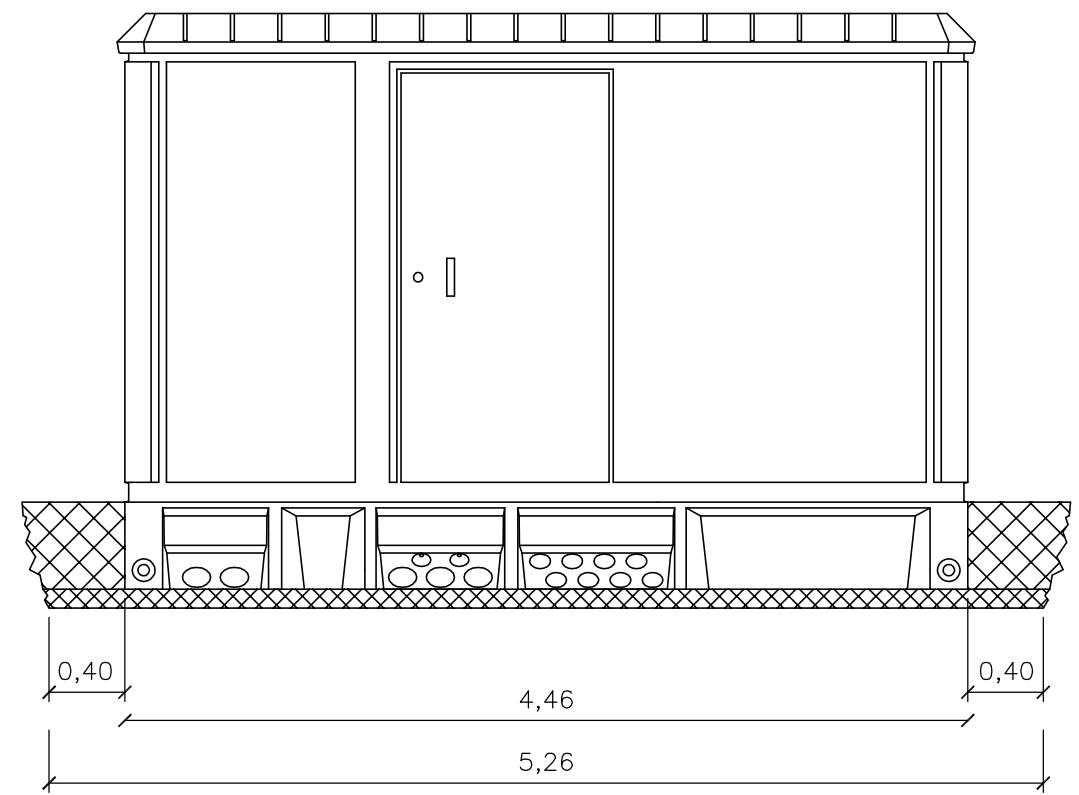
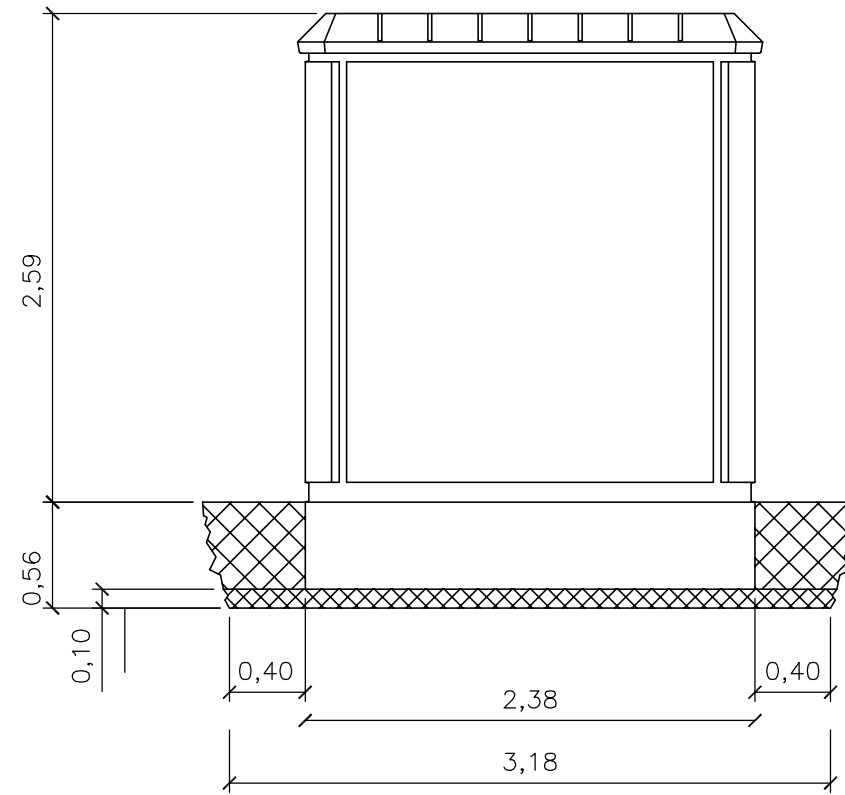
OUTGOING LINE: SWITCH UNIT (IM) - 630A

TRANSFORMER

- RATED POWER: 630 kVA
- RATIO: 400V / 20 kV
- REGULATION: 20 kV +2.5% +5% +7.5% +10%
- CONNECTION GROUP: Dyn11
- COOLING: ONAN



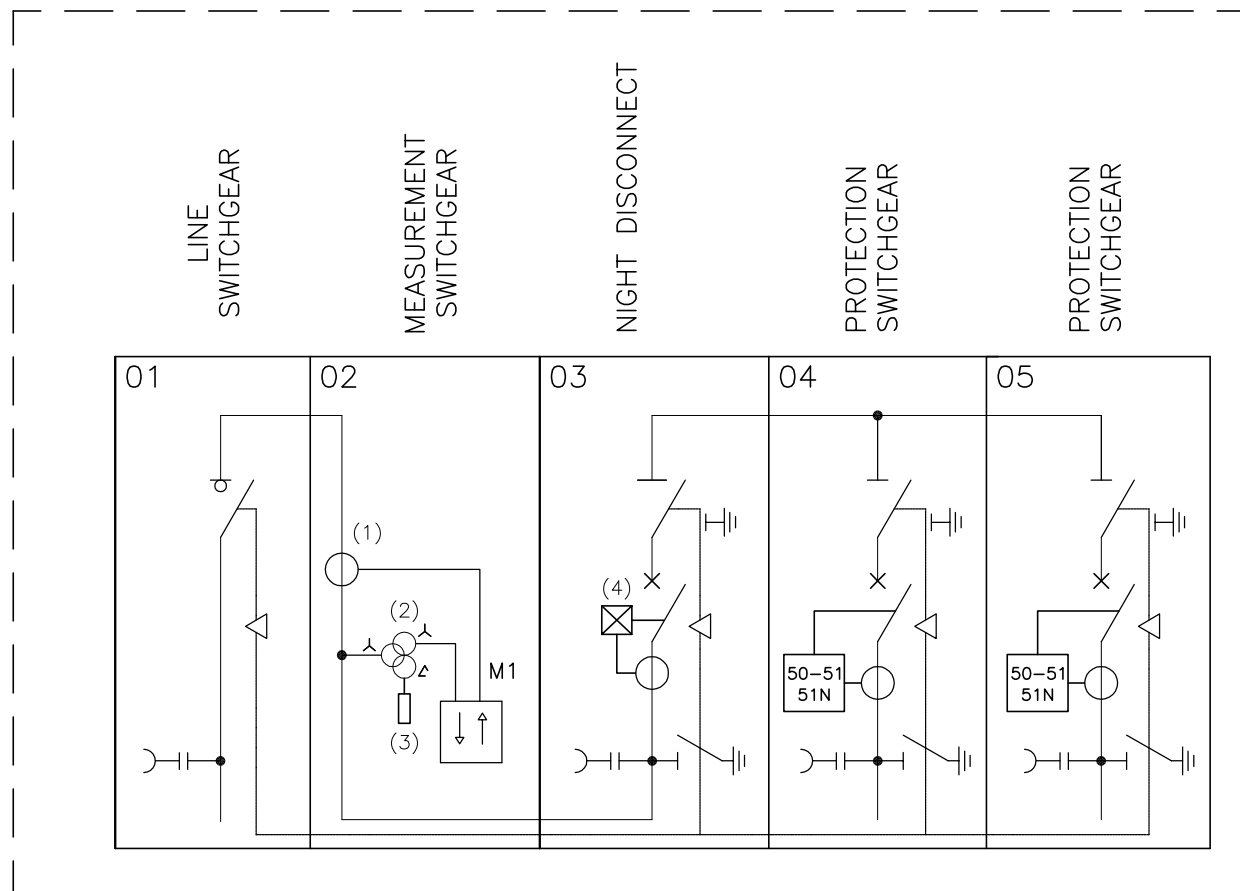
FLUORESCENT LAMP
EMERGENCY LIGHT



Sand bed

FOUNDATION EXCAVATION DIMENSIONS
5.26 m (length) x 3.18 m (width) x 0.56 m (depth)

COLLECTOR STATION



COLLECTOR STATION FUNCTIONAL UNITS

- 01 OUTGOING LINE: SWITCH UNIT (IM) – 630A
- 02 PRIVATE METERING: MEASUREMENT UNIT (GBC-A)
- 03 NIGHT DISCONNECT: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA
- 04 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA
- 05 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA

- (1) GENERATION METERING (PRIVATE):
3 CT 300–600/5 Class 0,2 S 10 VA
- (2) GENERATION METERING (PRIVATE):
3 VT double winding:
primary: 22000/V3
secondary metering: 110/V3 Class 0,2 25 VA
secondary ferro resonance resistor: 110/3 Class 3P 50 VA
- (3) FERRO RESONANCE DUMPING RESISTOR
- (4) NIGHT DISCONNECTION TO AVOID TRANSFORMER CONSUMPTION

REV.	DESCRIPTION	DRAWN	APP.	DATE	ibener	
I	PROJ. REL.	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
					DRAWING: COLLECTOR STATION	
					LOCATION: SEBIS – ROMANIA	
					PROJECT CODE: I203A	
					EXECUTED PROJECT:	
					FORMAT: A2	
					SCALE: -	
					REFERENCE: I203A	
					REV. DRAWING: 21	
					REVIEW: I	

EXTERNAL TRANSFORMER

R

S

T

N

PE (towards CC 5x16 sq.mm)

FRAMES LV CS

STRUCTURE EQUIPOTENTIAL CONDUCTOR

MV PROTECTIVE ELECTRODE

LV PROTECTIVE ELECTRODE

ELECTRICALLY INDEPENDENT EARTHING SYSTEMS

Sidewalk

0,6/1 kV insulated cable Conduit OD 40

LV Protective electrode Bare copper conductor in trenches

LV Protective electrode

MV Protective electrode Earthing rod

24

8

3,5

24

9

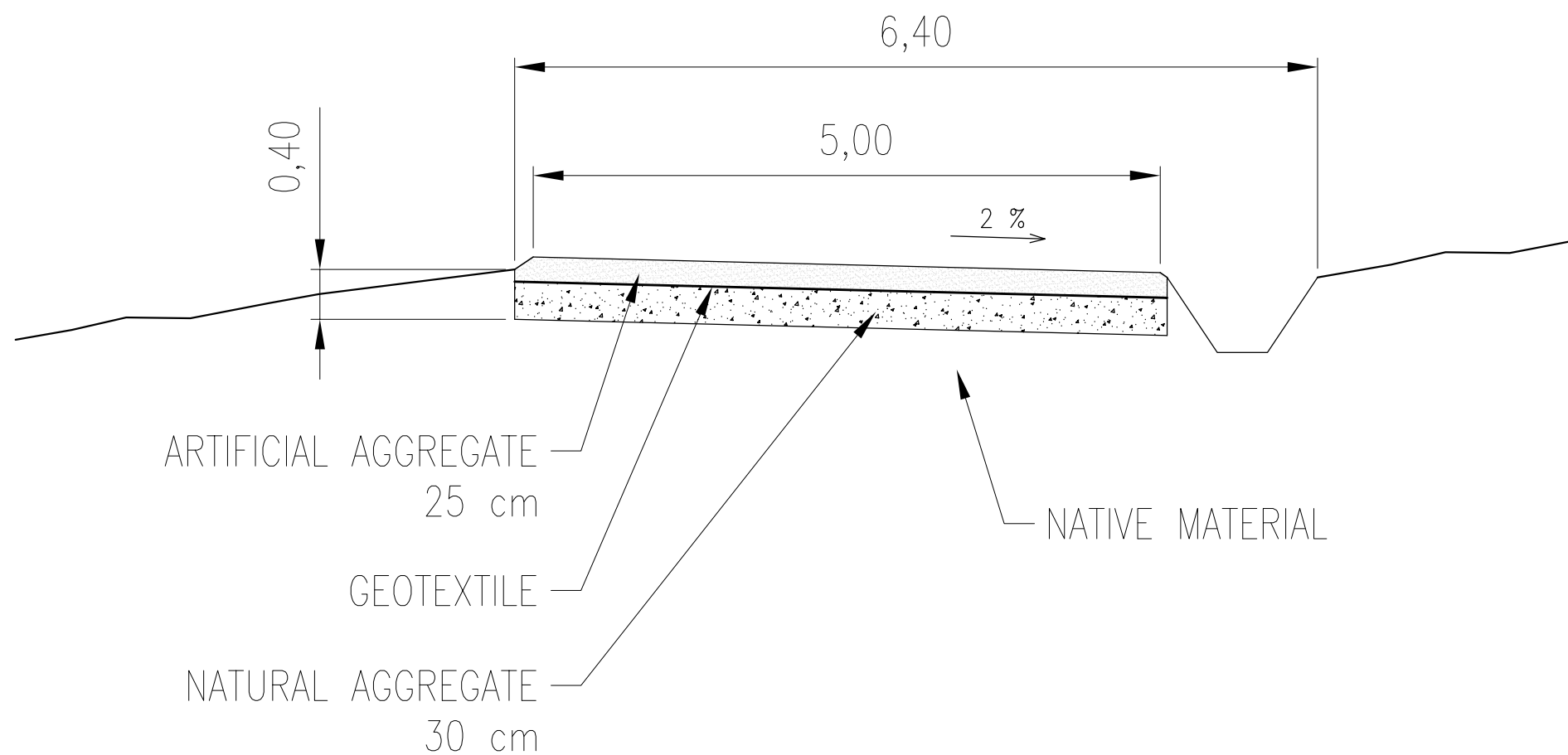
linked



0,6/1 kV insulated cable Conduit OD 40

LV Protective electrode Bare copper conductor in trenches

LV Protective electrode

REV.	DESCRIPTION:	DRAWN:	APP.	DATE:	<div><div><div>ibēner</div></div></div>	<div><div>PROJECT:</div><div>SEBIS I</div></div>	FORMAT:	A2	
I	PROJ. REL.	JUL	JUL	28.06.12			SCALE:	-	
							REFERENCE:	I203A	
							NO. DRAWING:	25	
							REVIEW:	I	
DEVELOPER:					<div><div><div>GISEM</div></div></div> <div><div>OPEN</div><div>ISO 9001:2015 CERTIFIED COMPANY</div></div>	<div><div>DRAWING:</div><div>MV EARTHING SYSTEM</div></div>			
							LOCATION:	SEBIS - ROMANIA	
							PROJECT CODE:	I203A	EXECUTED PROJECT:



REV.	DESCRIPTION	DRAWING	APP.	DATE		
1	PROJ. REL.	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
					DRAWING: ROAD SECTION	
					LOCATION: SEBIS - ROMANIA	
DEVELOPER:					PROJECT CODE: I203A	
 <small>GIPEN FELICE RU, 8 LTH FLOOR, MADRID</small>						
					EXECUTED PROJECT:	

FORMAT:	A3
SCALE:	1:50
REFERENCE:	I203A
HP DRAWING:	31
REVIEW:	1



KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSSES
- FENCE
- COLLECTOR STATION
- MONITORING CENTER
- TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CN1

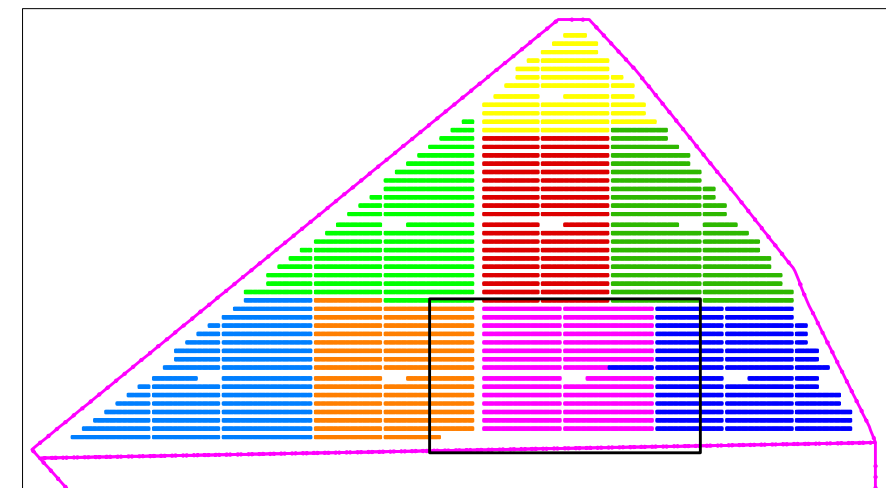
- LV TRENCH DEPTH 0,55mx50
- LV TRENCH DEPTH 0,80mx50
- LV TRENCH DEPTH 1,00mx50
- LV TRENCH DEPTH 1,20mx50
- MV TRENCH DEPTH 1,10mx50
- S&S TRENCH DEPTH 0,80mx50
- B1.6 LV TRENCH TYPE
- LV ACCESS CHAMBER 60x60x90
- LV ACCESS CHAMBER 100x100x100
- MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

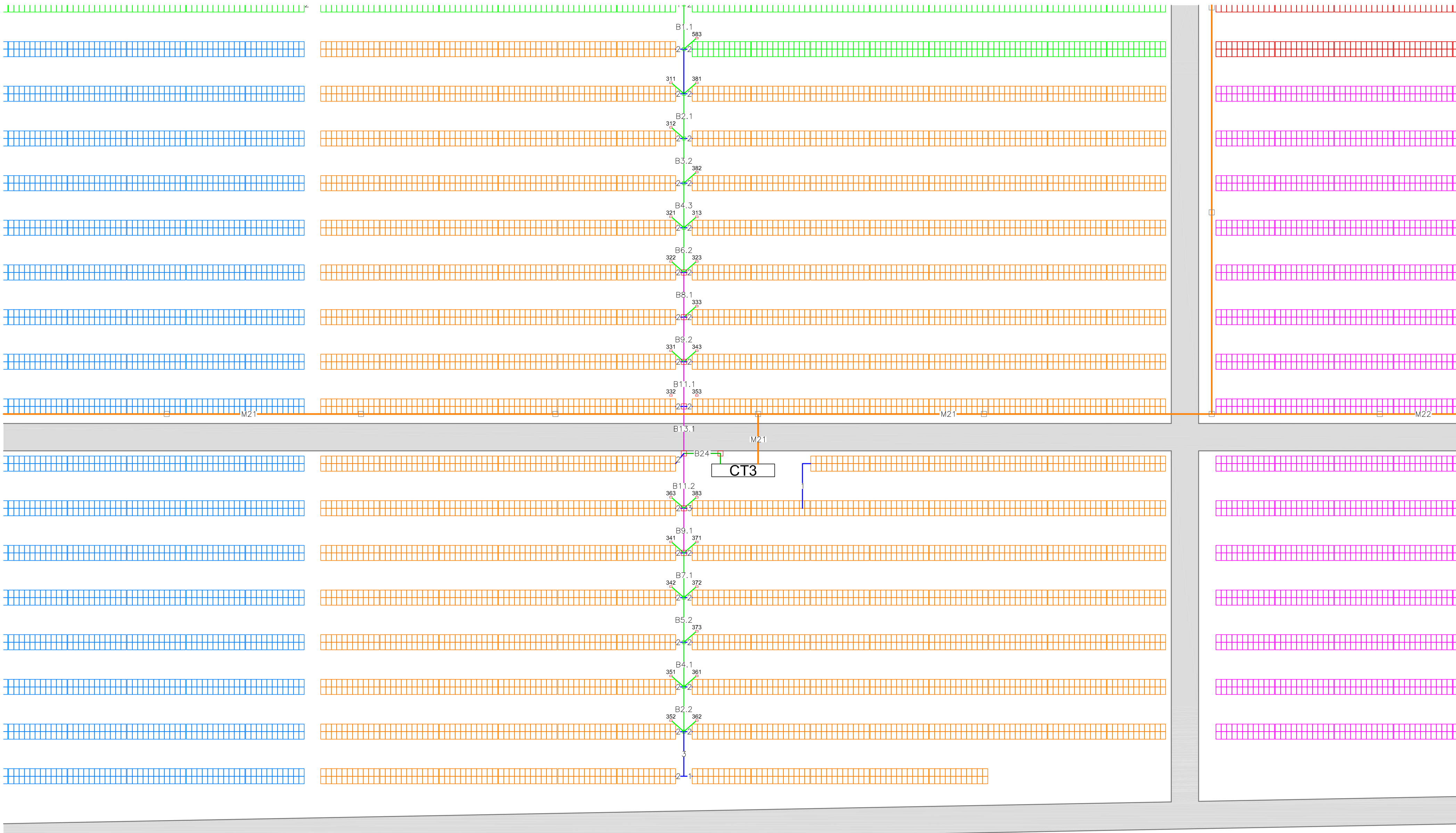
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

REV.	DESCRIPTION	DRAWN	APP.	DATE		
1	PROJ. REL.	JLB	JLB	26.06.12		
2	AS SUPPLY	JLB	JLB	12.07.12		
					PROJECT:	SEBIS I
					DRAWING:	TRENCH LAYOUT - TS2
					LOCATION:	SEBIS - ROMANIA
					PROJECT CODE:	I203A
					EXECUTED PROJECT:	
					FORMAT:	A2
					SCALE:	1:500
					REFERENCES:	I203A
					NO. DRAWING:	328
					REVISION:	2



KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSSES
- FENCE
- CR COLLECTOR STATION
- CC MONITORING CENTER
- CT TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CT SS,AA.
- CN1

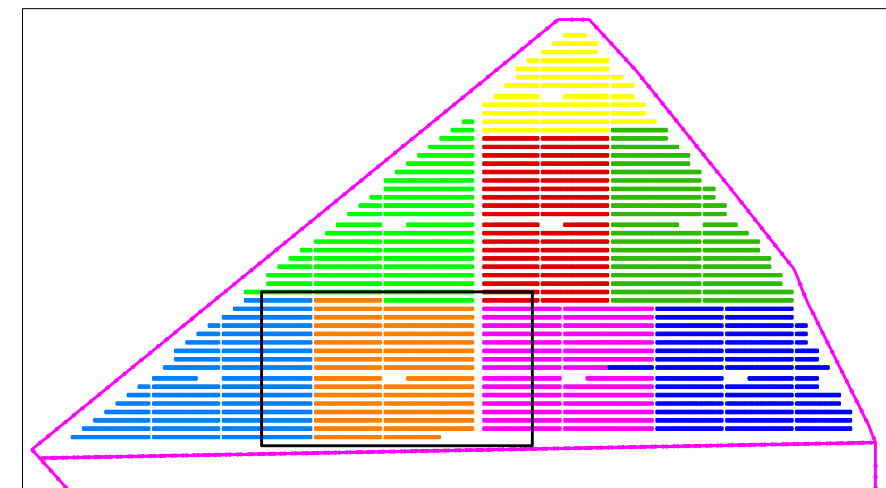
- LV TRENCH DEPTH 0,55mx50
- LV TRENCH DEPTH 0,80mx50
- LV TRENCH DEPTH 1,00mx50
- LV TRENCH DEPTH 1,20mx50
- MV TRENCH DEPTH 1,10mx50
- S&S TRENCH DEPTH 0,80mx50
- B1.6 LV TRENCH TYPE
- LV ACCESS CHAMBER 60x60x90
- LV ACCESS CHAMBER 100x100x100
- MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

REV.	DESCRIPTION	DRAWN	APP.	DATE	ibener	
1	PROJ. REL.	JLB	JLB	26.06.12		
2	AS SUPPLY	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
					DRAWING: TRENCH LAYOUT - TS3	
					LOCATION: SEBIS - ROMANIA	
					PROJECT CODE: I203A	
					ENJOYED PROJECT:	
					2	

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

CR COLLECTOR STATION

CC MONITORING CENTER

CT TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

B1.6 LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

KEY DRAWING

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	PROJ. REL.	JLB	JLB	26.06.12
2	AS SUPPLY	JLB	JLB	12.07.12

DEVELOPER:
GIPEN

ibener

PROJECT: SEBIS I

DRAWING: TRENCH LAYOUT - TS5

LOCATION: SEBIS - ROMANIA

PROJECT CODE: I203A

EXECUTED PROJECT:

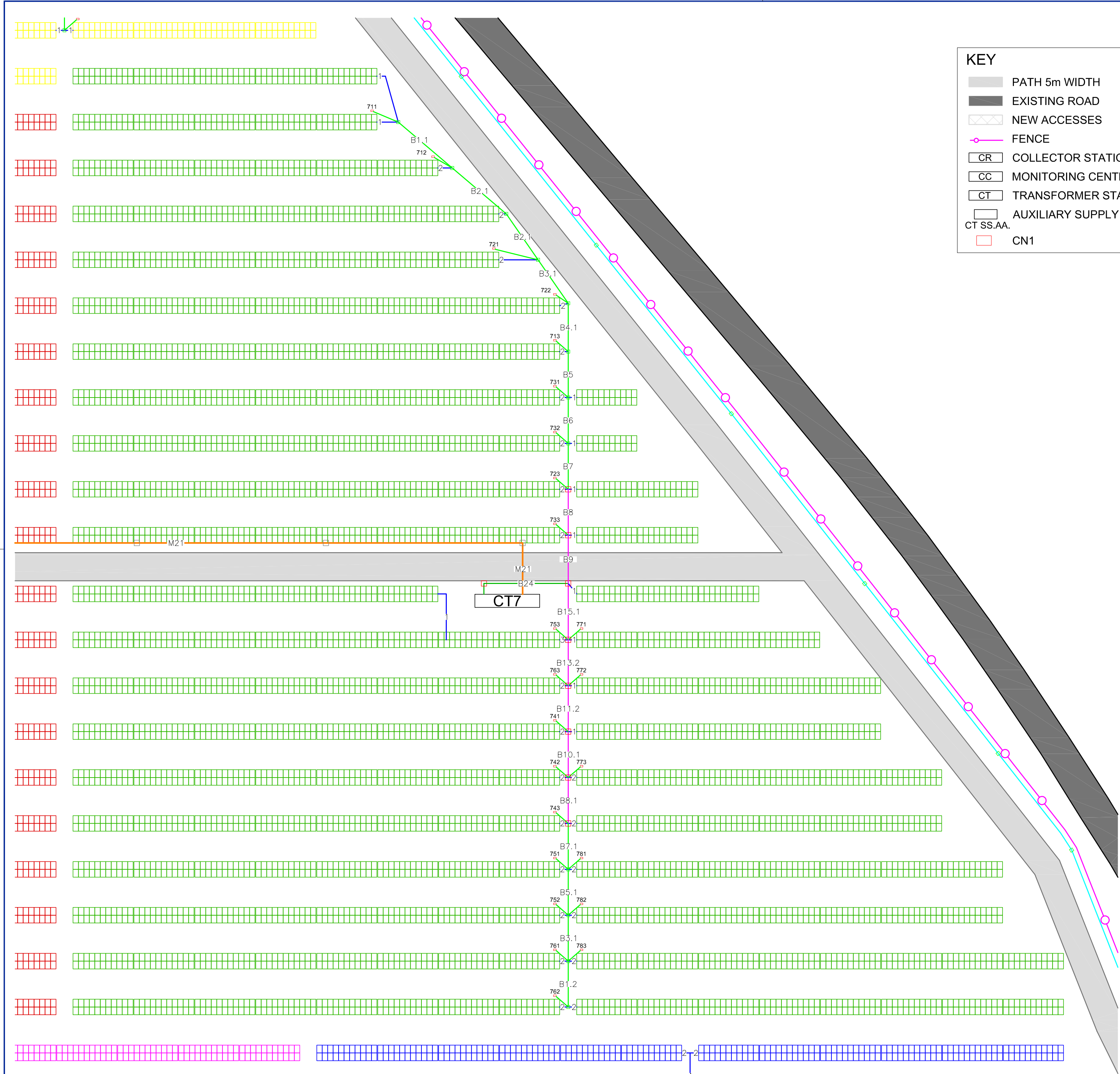
FORMAT: A2

SCALE: 1:500

REFERENCE: I203A

NP DRAWING: 32E

REVISION: 2



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

B 1.6

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

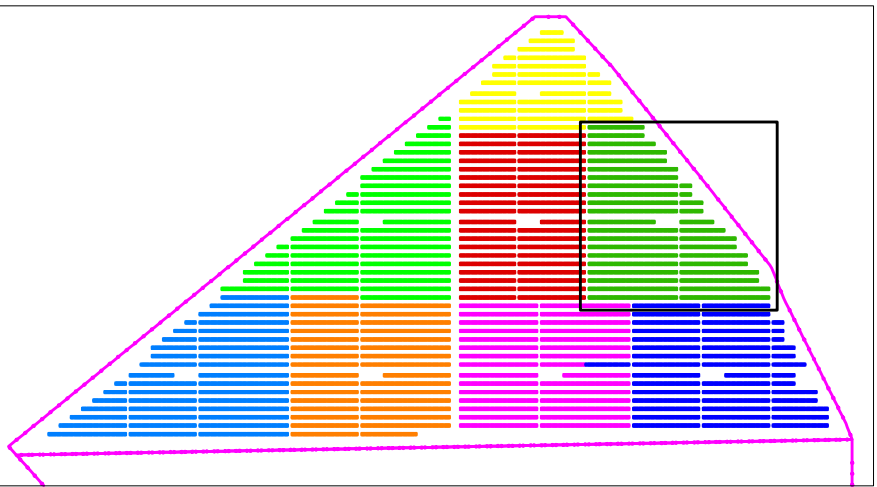
MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)



CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

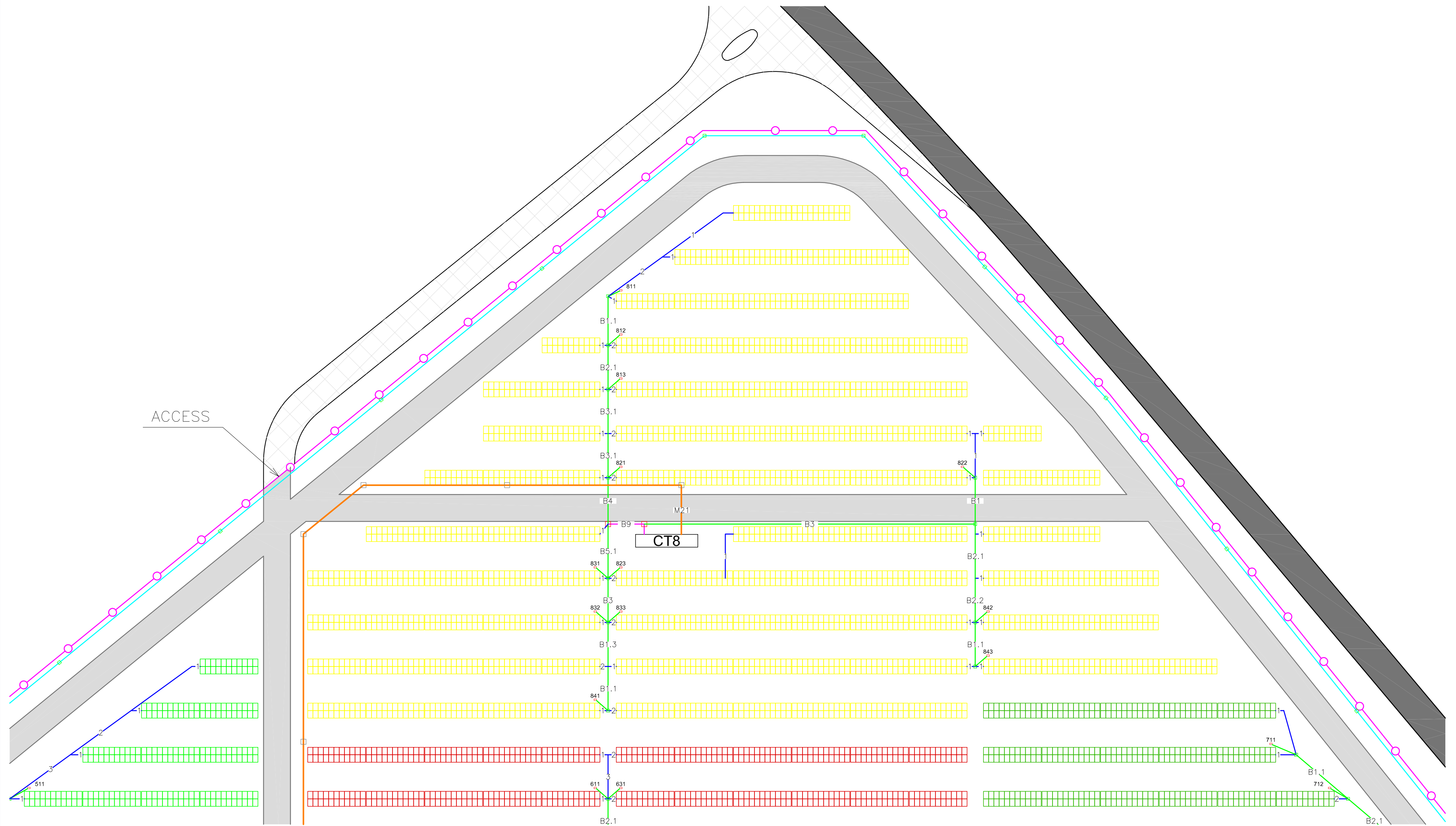
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

REV.	DESCRIPTION	DRAWN	APP.	DATE		
1	PROJ. REL.	JLB	JLB	26.06.12		
2	AS SUPPLY	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
DEVELOPER:					DRAWING: TRENCH LAYOUT - TS7	
						
LOCATION: SEBIS - ROMANIA					PROJECT CODE: I203A	
EXECUTED PROJECT:						
					FORMAT: A2	
					SCALE: 1:500	
					REFERENCE: I203A	
					NO. DRAWING: 326	
					REVISION: 2	



KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSES
- FENCE
- CR COLLECTOR STATION
- CC MONITORING CENTER
- CT TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CT SS,AA.
- CN1

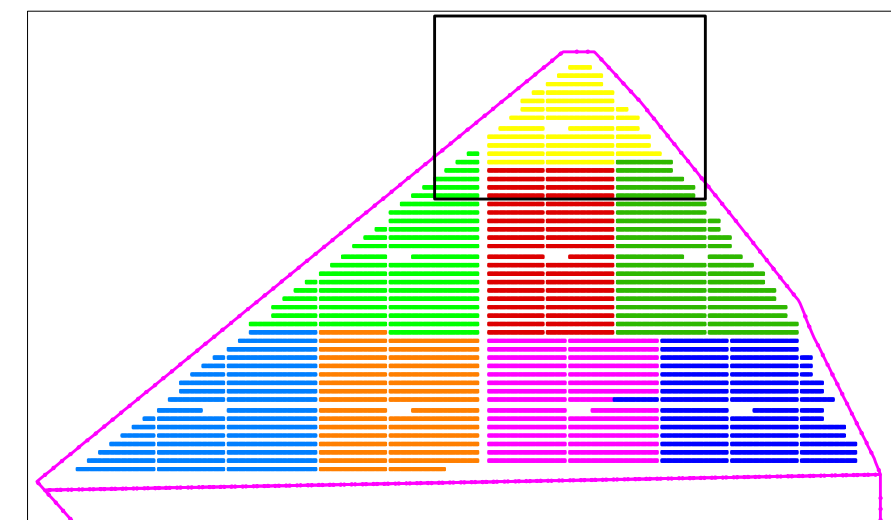
- LV TRENCH DEPTH 0,55mx50
- LV TRENCH DEPTH 0,80mx50
- LV TRENCH DEPTH 1,00mx50
- LV TRENCH DEPTH 1,20mx50
- MV TRENCH DEPTH 1,10mx50
- S&S TRENCH DEPTH 0,80mx50
- B1.6 LV TRENCH TYPE
- LV ACCESS CHAMBER 60x60x90
- LV ACCESS CHAMBER 100x100x100
- MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 8)
Z: CN2 input # (from 1 to 3)

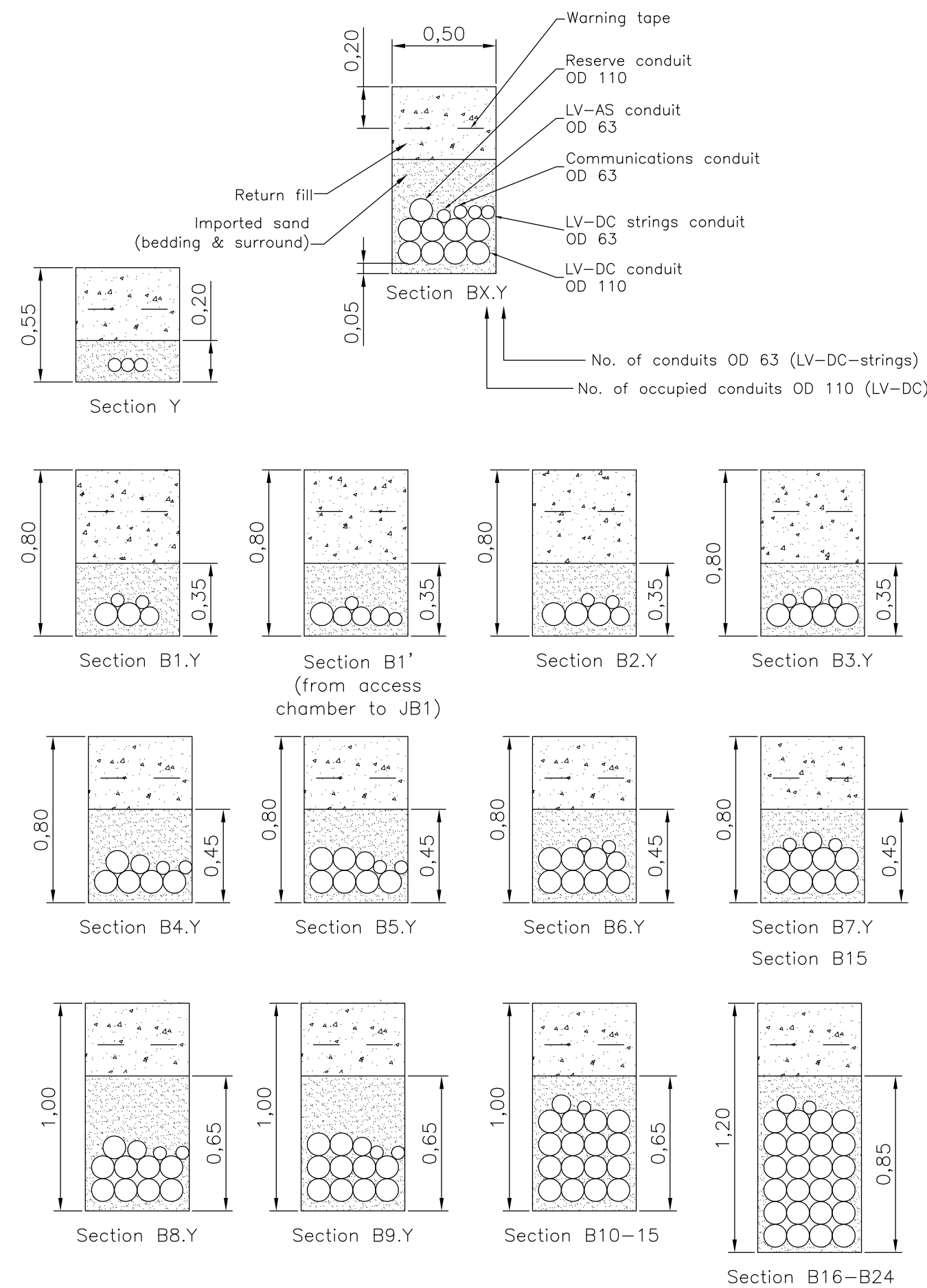
FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



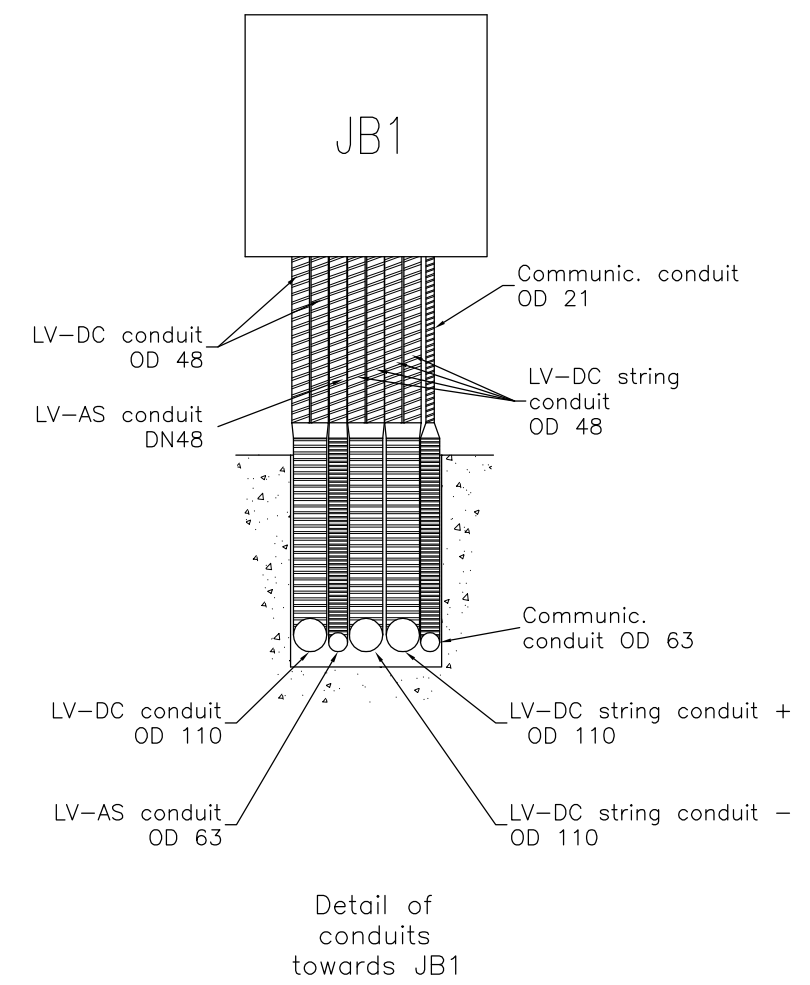
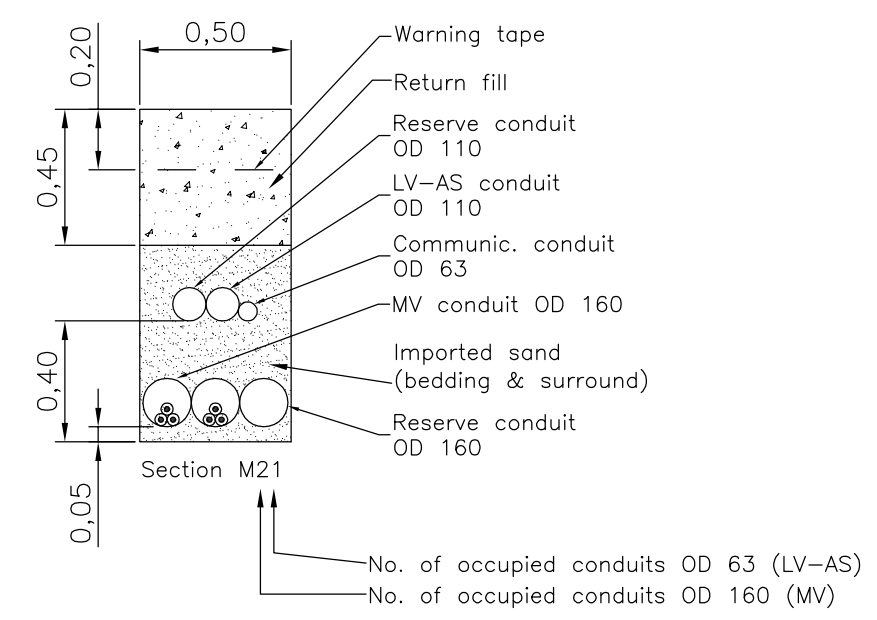
KEY DRAWING

REV.	DESCRIPTION	DRAWN	APP.	DATE	ibener	
1	PROJ. REL.	JLB	JLB	26.06.12	PROJECT: SEBIS I	
2	AS SUPPLY	JLB	JLB	12.07.12		
DEVELOPER:					DRAWING: TRENCH LAYOUT - TS8	
GIPEN					LOCATION: SEBIS - ROMANIA	
PROJECT CODE: I203A					EXECUTED PROJECT:	
FORMAT: A2						SCALE: 1:500
REFERENCE: I203A						NO. DRAWING: 32H
REVISION:						2

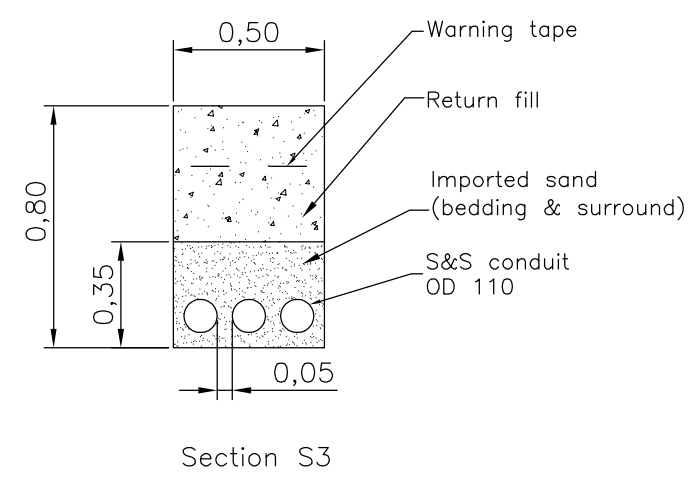
LV TRENCH



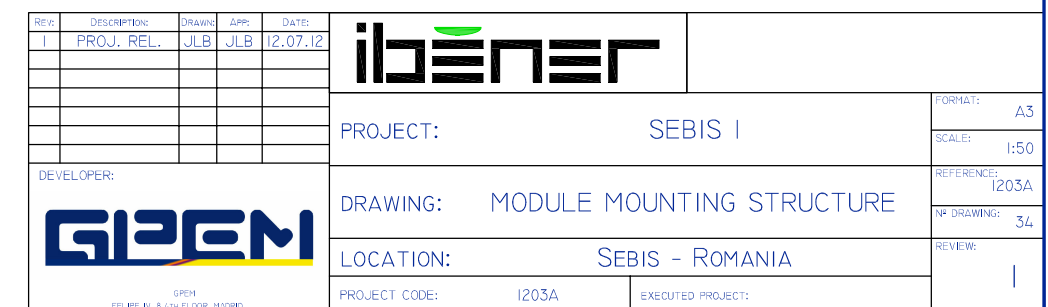
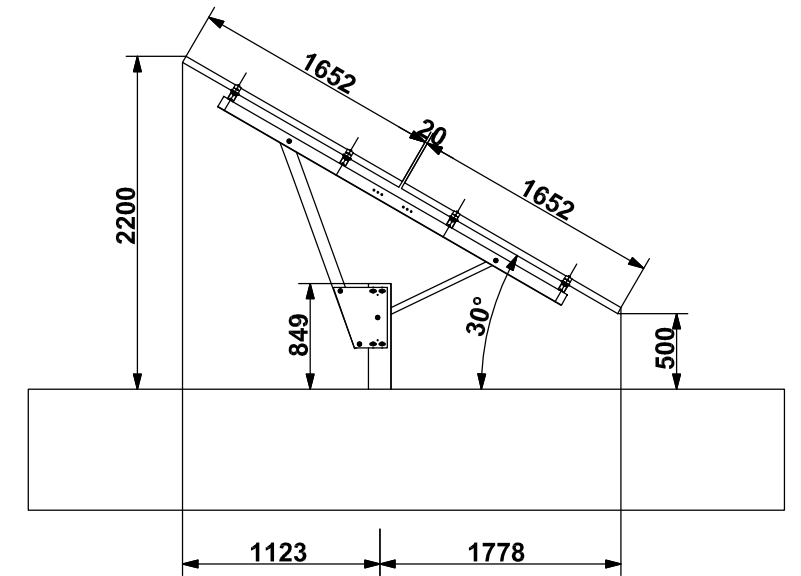
MV TRENCH



SURVEILLANCE & SECURITY TRENCH



REV.	DESCRIPTION	DRAWN	APP.	DATE	ibener	
1	PROJ. REL.	JLB	JLB	26.06.12		
2	AS SUPPLY	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
					DRAWING: TRENCH SECTIONS	
					LOCATION: SEBIS - ROMANIA	
					PROJECT CODE: I203A	
					EXECUTED PROJECT:	
					FORMAT: A2	
					SCALE: 1:25	
					REFERENCE: I203A	
					DRAWING: 321	
					REVISION: 2	

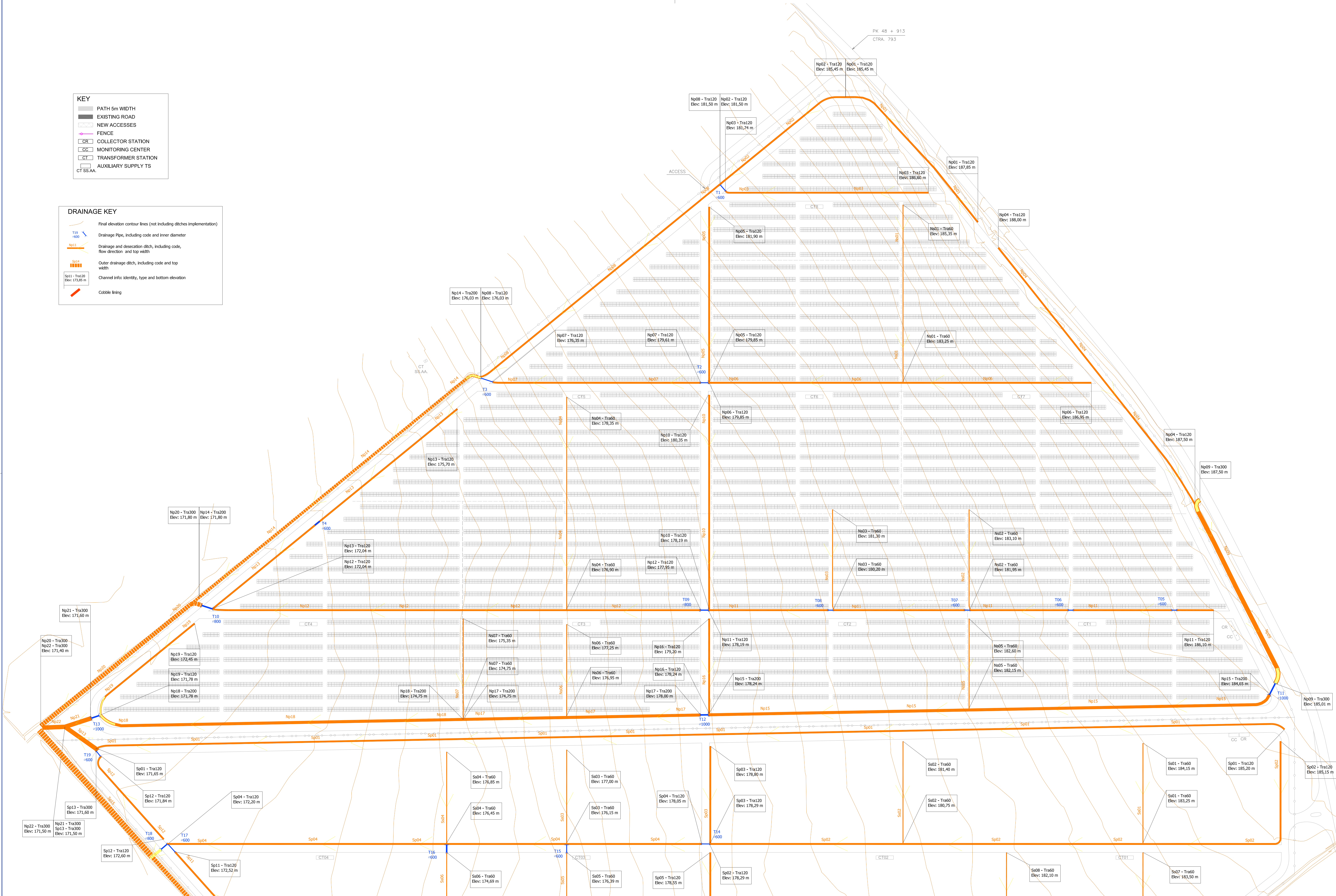


KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSSES
- FENCE
- COLLECTOR STATION
- MONITORING CENTER
- TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CT SS AA

DRAINAGE KEY

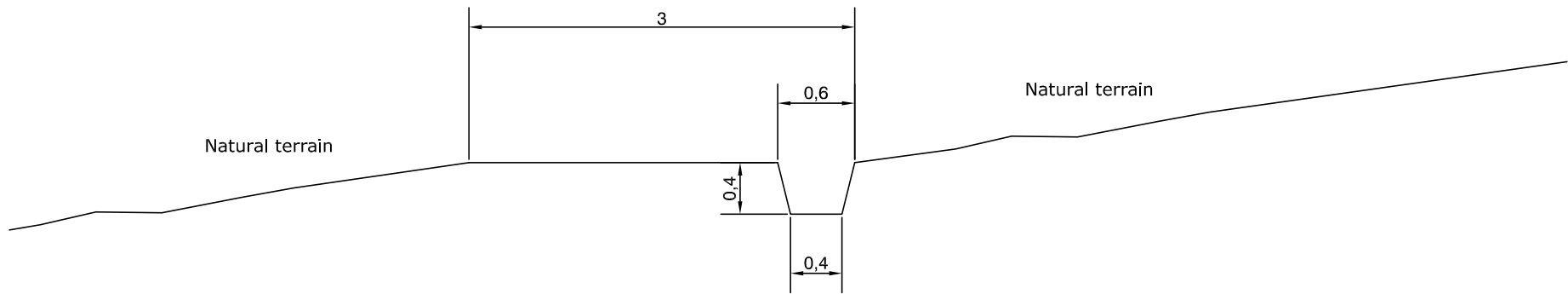
- Final elevation contour lines (not including ditches implementation)
- Drainage Pipe, including code and inner diameter
- Drainage and desecation ditch, including code, flow direction and top width
- Outer drainage ditch, including code and top width
- Channel info: identity, type and bottom elevation
- Cobble lining



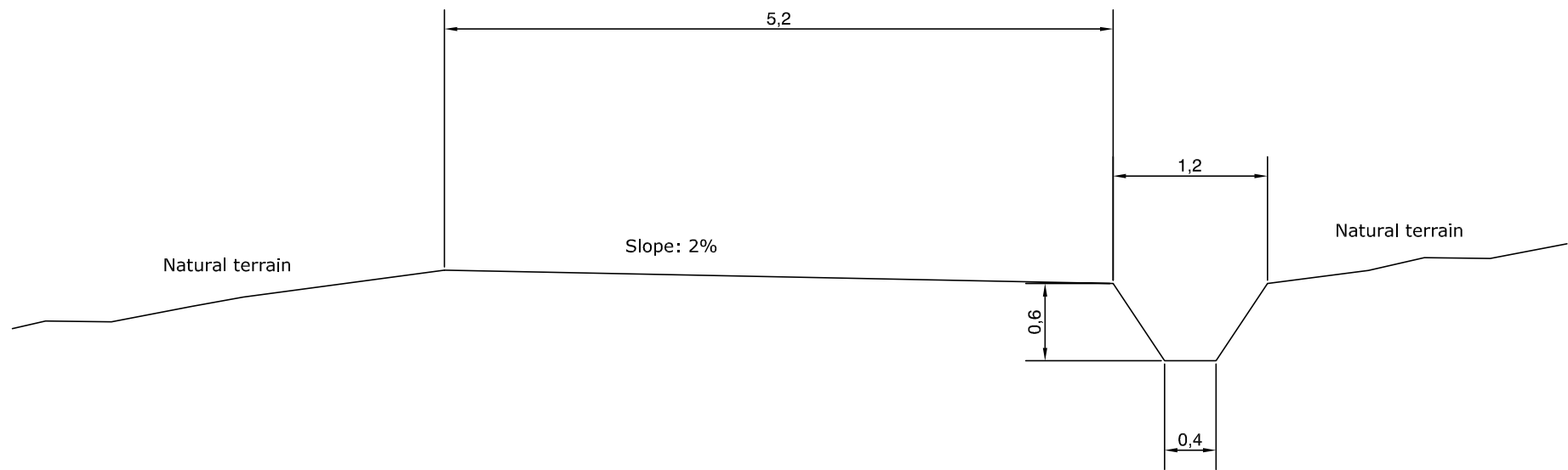
FOR DITCH AND PIPING DETAILS
SEE CORRESPONDING DRAWING

ibener		PROJECT: SEBIS I	SCALE: 1:500
GREN		LOCATION: SEBIS - ROMANIA	DATE: 2024
DRAWING: DRAINAGE LAYOUT		PROJECT CODE: 0004	REVISION: 01

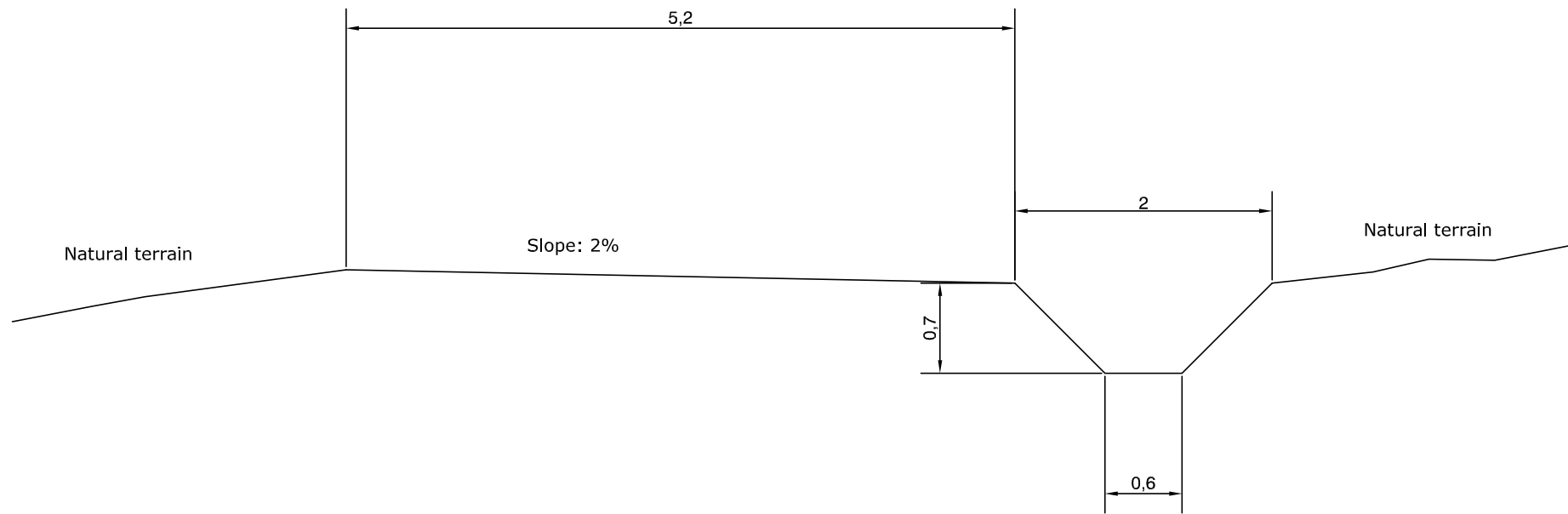
Ditch type Tra60



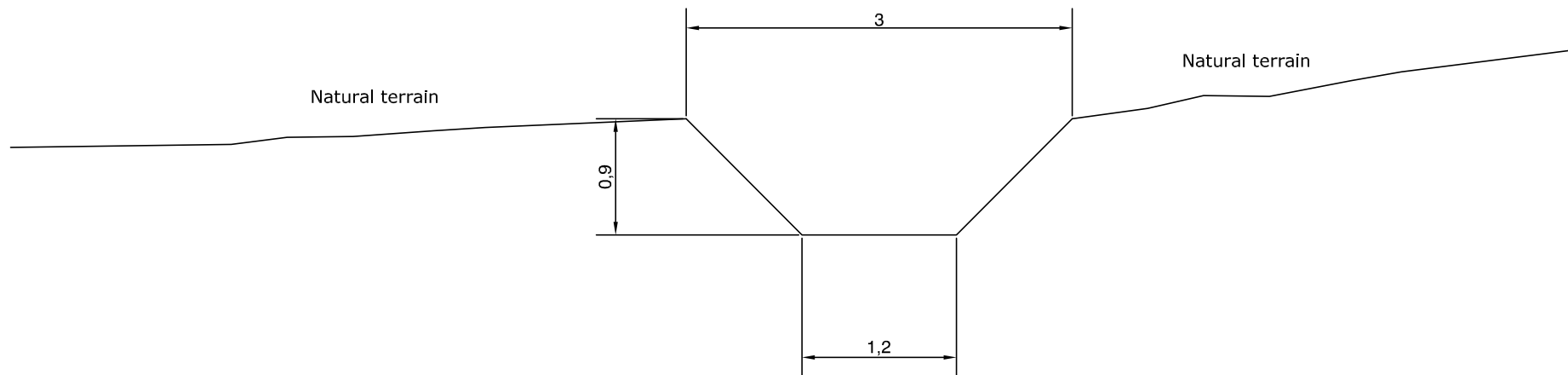
Ditch type Tra120



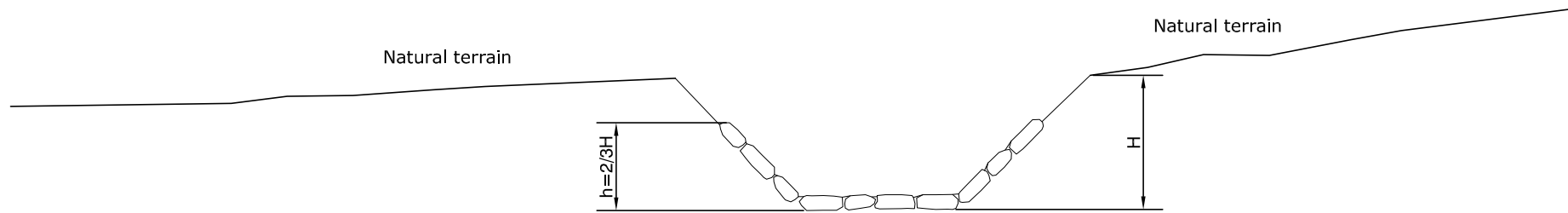
Ditch type Tra200



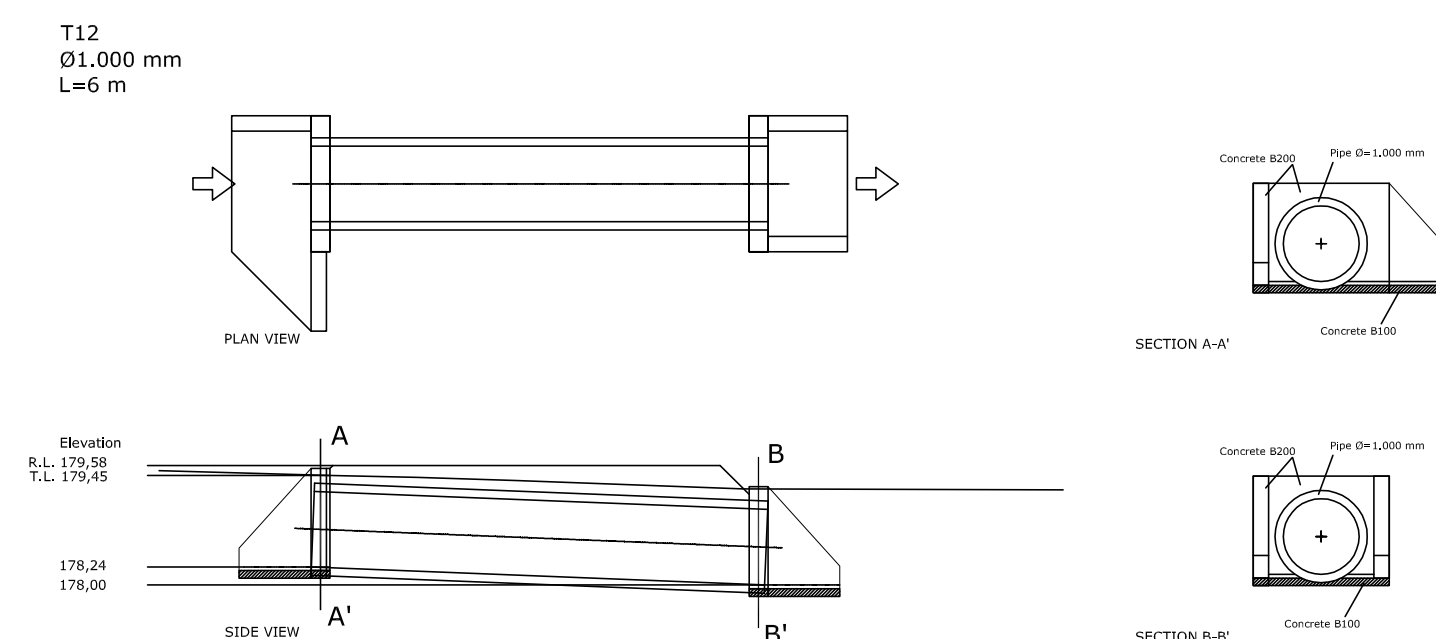
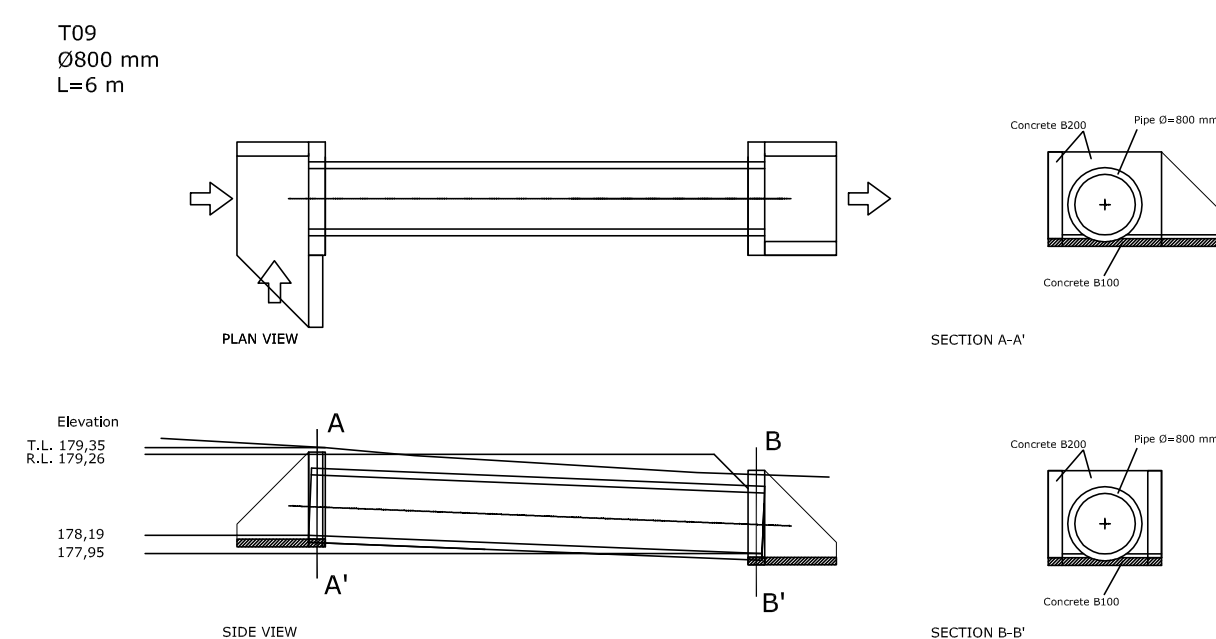
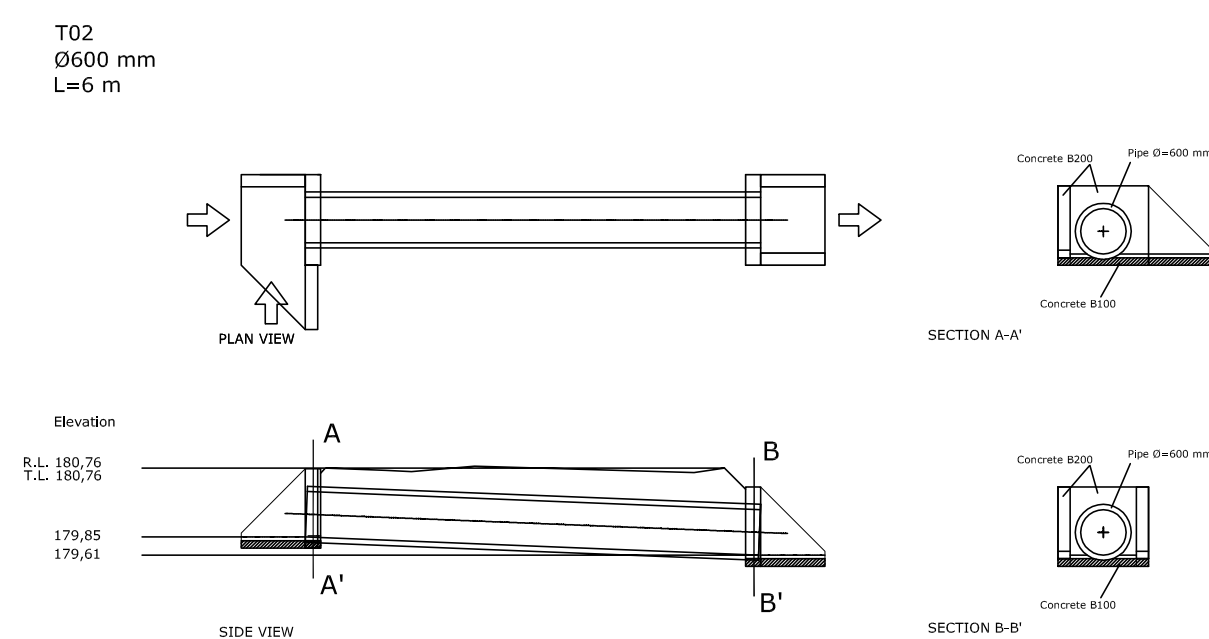
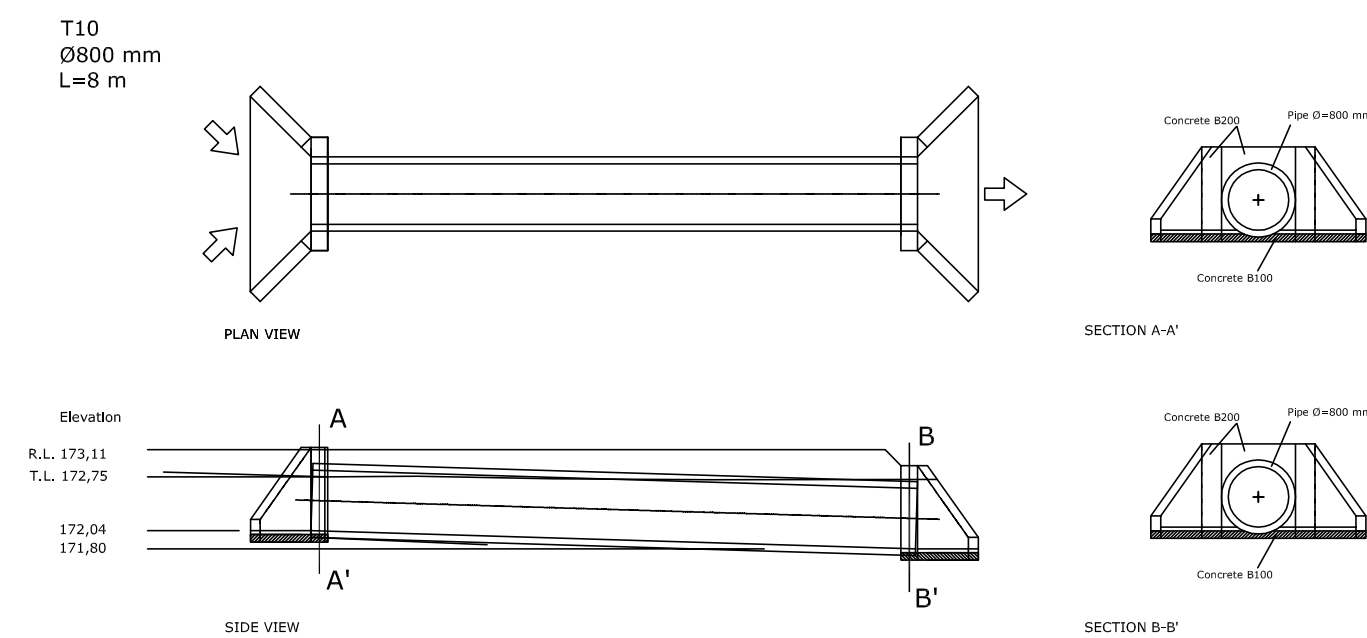
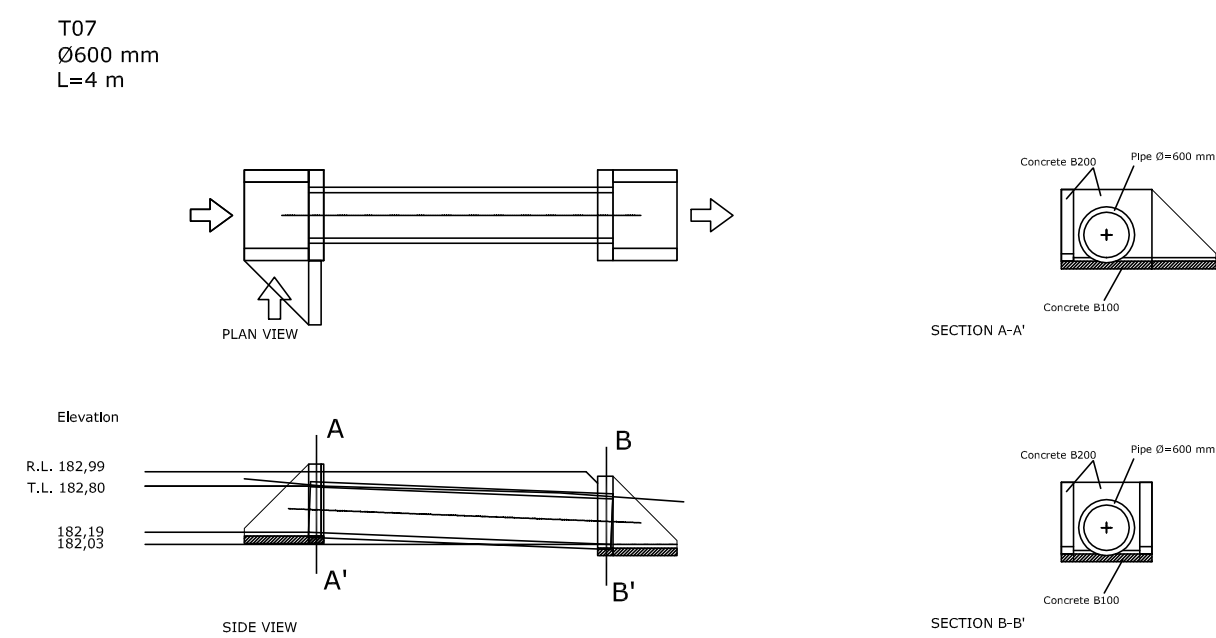
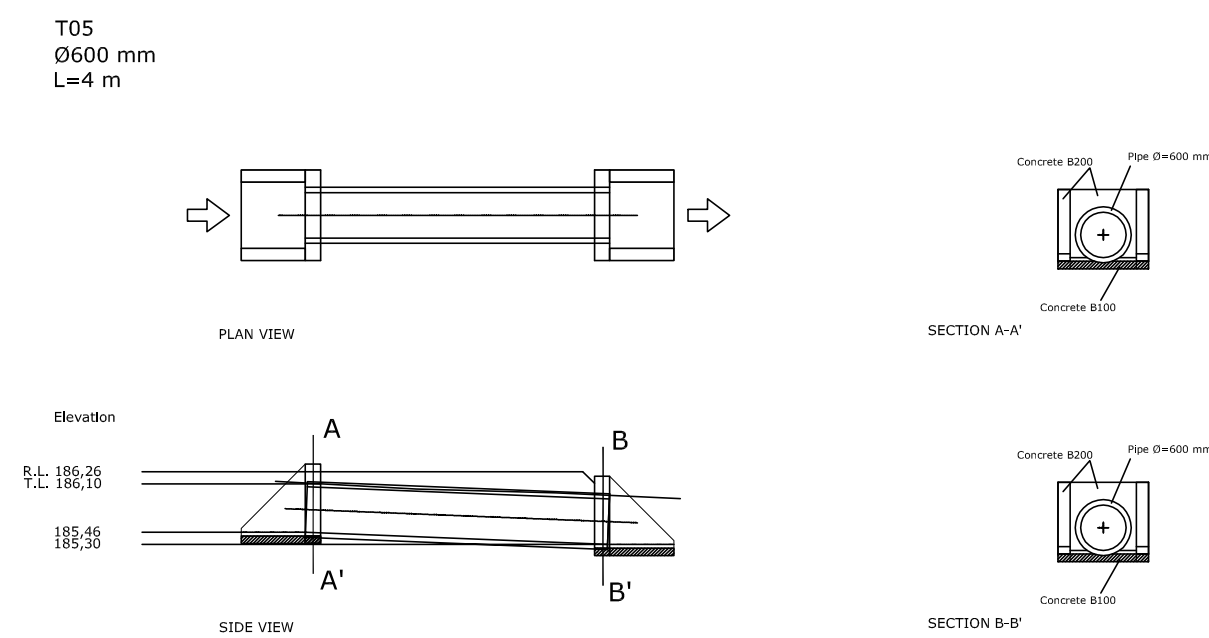
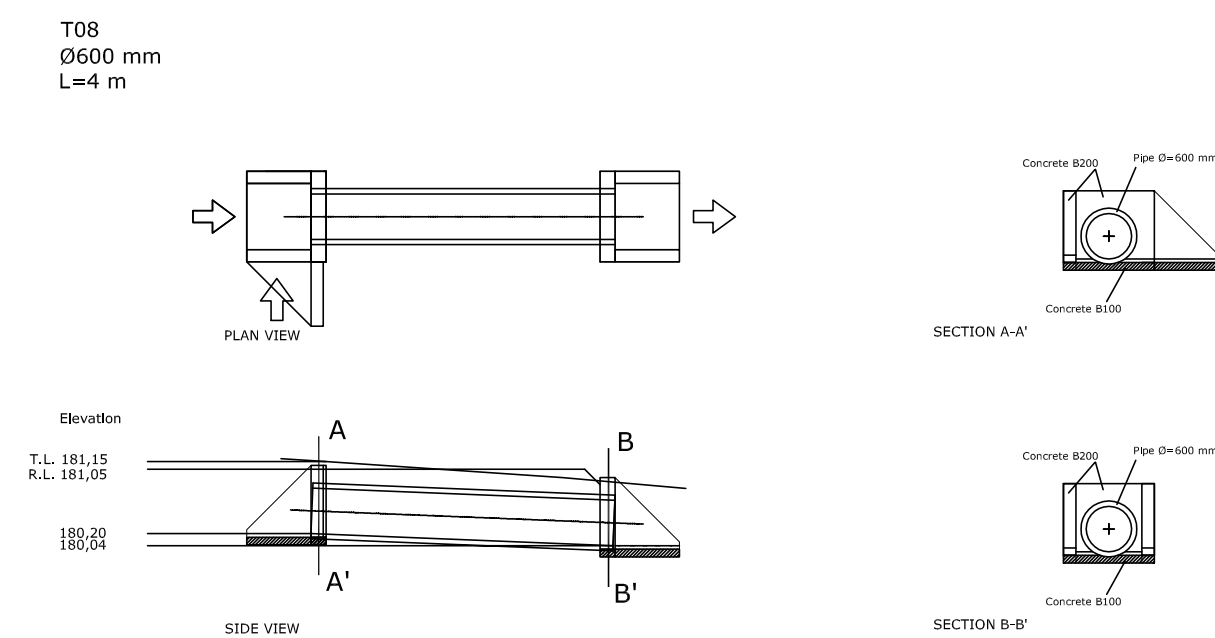
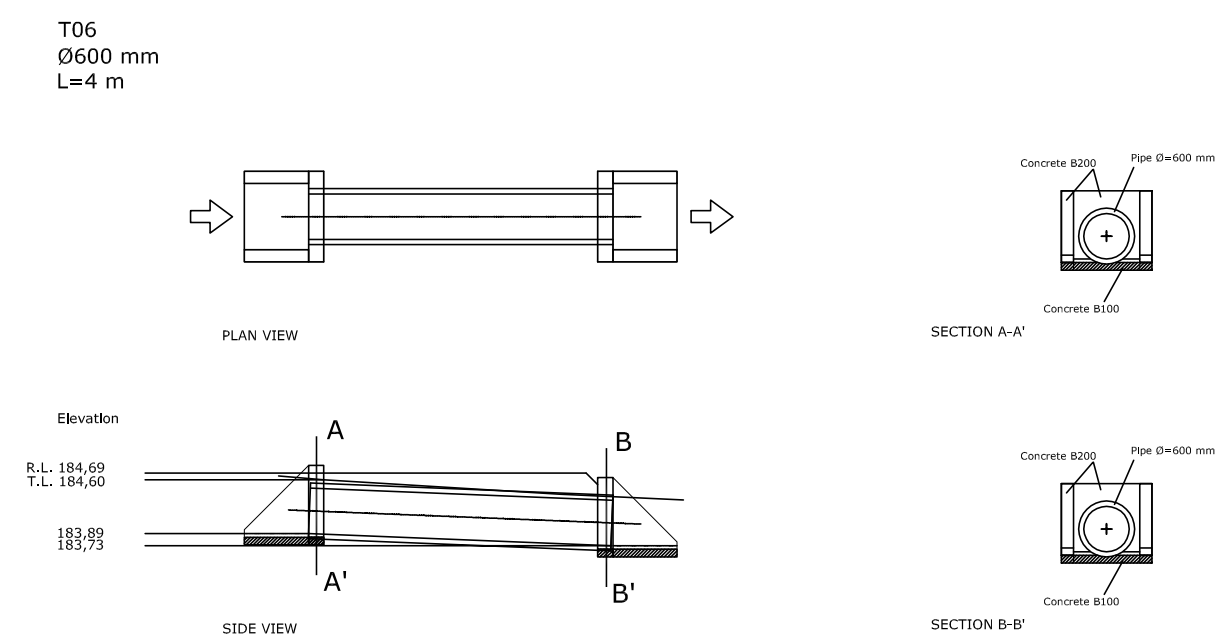
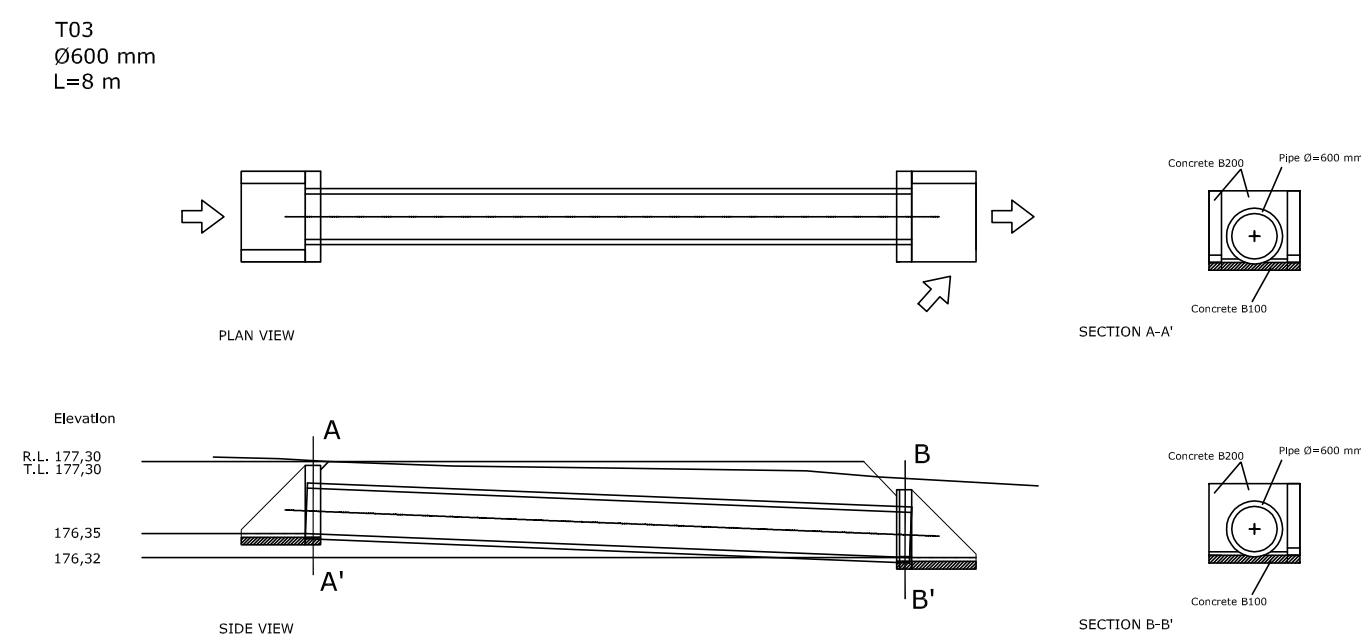
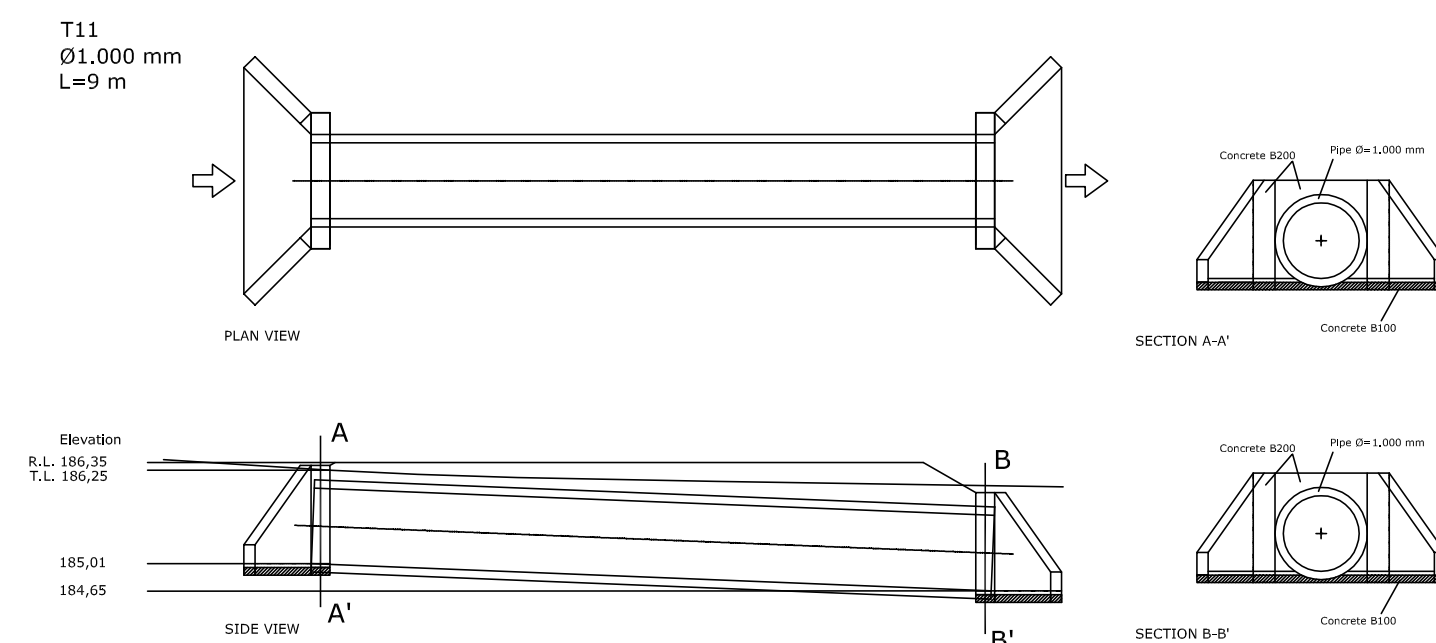
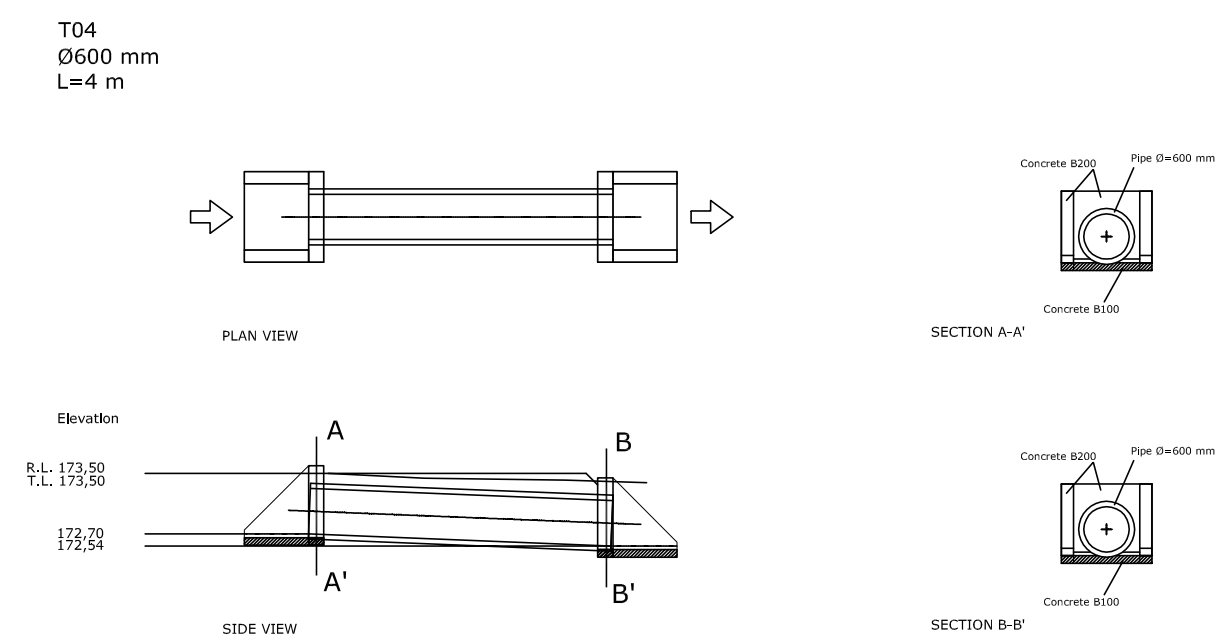
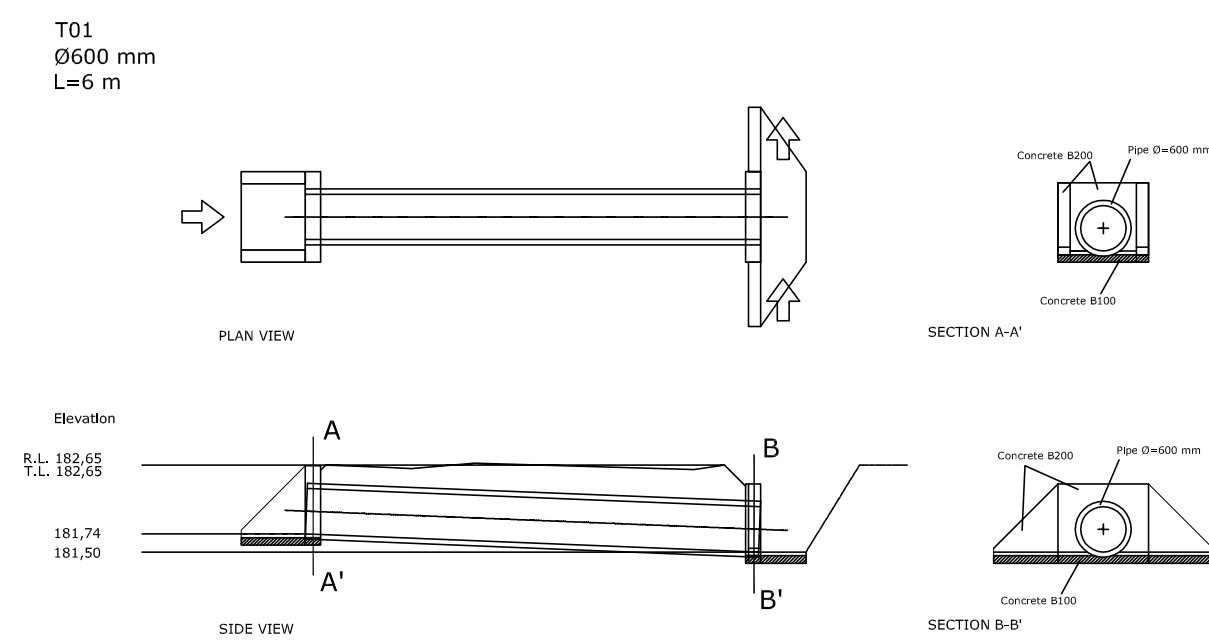
Ditch type Tra300





Cobble lining



REV.	DESCRIPTION	DRAWN	APP.	DATE	<div><div><div>ibener</div></div></div>	
I	PROJ. REL.	JLB	JLB	12.07.12		
					PROJECT: SEBIS I	
					DRAWING: DRAINAGE - DITCH DETAILS	
					LOCATION: SEBIS - ROMANIA	
					PROJECT CODE: I203A	EXECUTED PROJECT:
DEVELOPER: <div><div><div>GIPEN</div></div></div>						
COPY REPRODUCED BY GIPEN FOR THE CLIENT						
					FORMAT: A2	
					SCALE: 1:50	
					REFERENCE: I203A	
					OF DRAWING: 4/1A	
					REVIEW: I	



NO.	DESCRIPTION	UNIT	QTY	DATE		PROJECT: SEBIS I	COMPANY: A DATE: 1/10 REFERENCE: 1203 PROJECT CODE: 1 REVISION:
	PROJ. REL.	J.B.B.	J.B.B.	2/07/02			
REVISIONS:							
					DRAWING: DRAINAGE - PIPING DETAILS I		
					LOCATION: SEBIS - ROMANIA		
					PROJECT CODE: 1203A DESIGNED PROJECT:		

