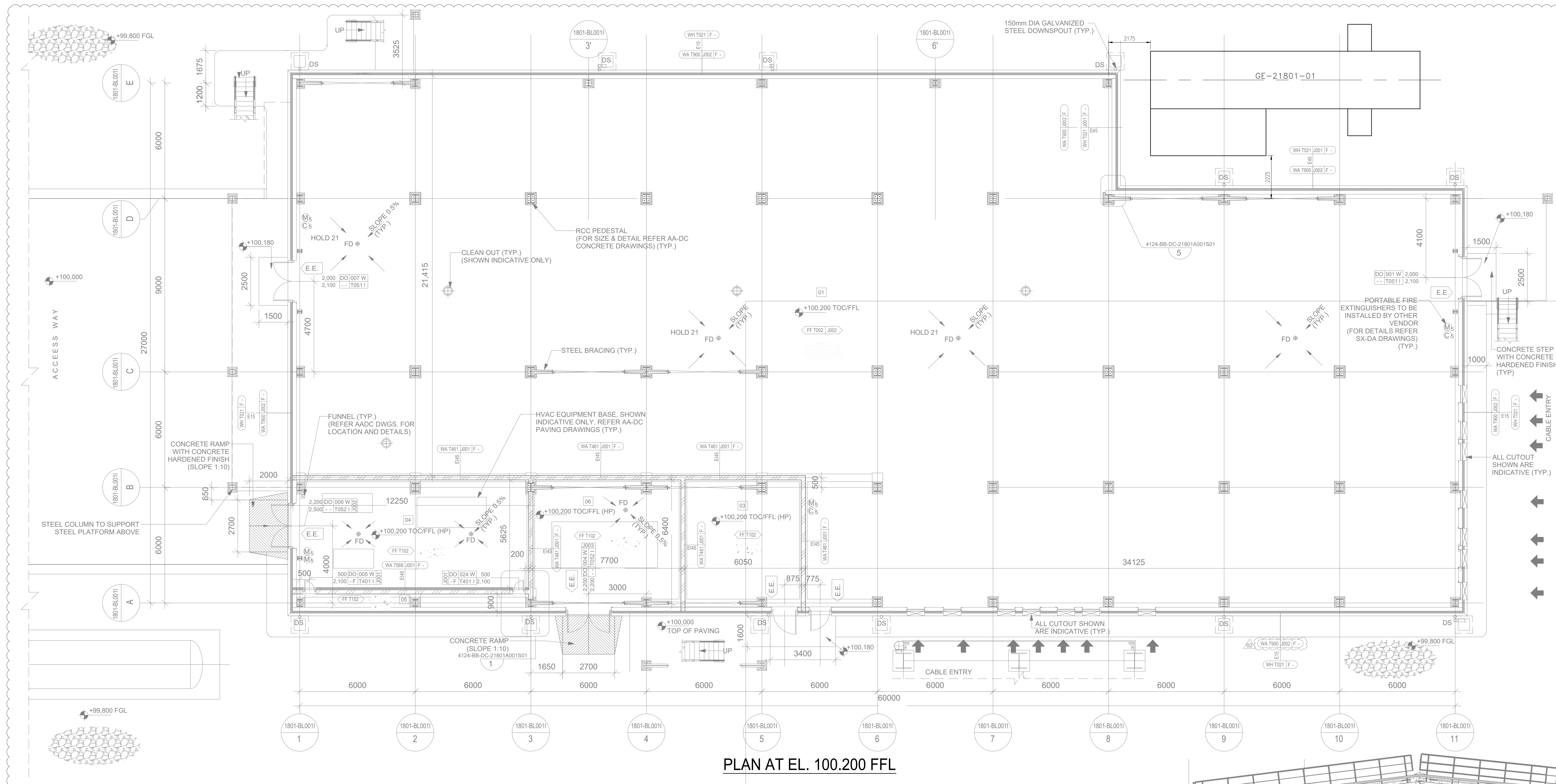
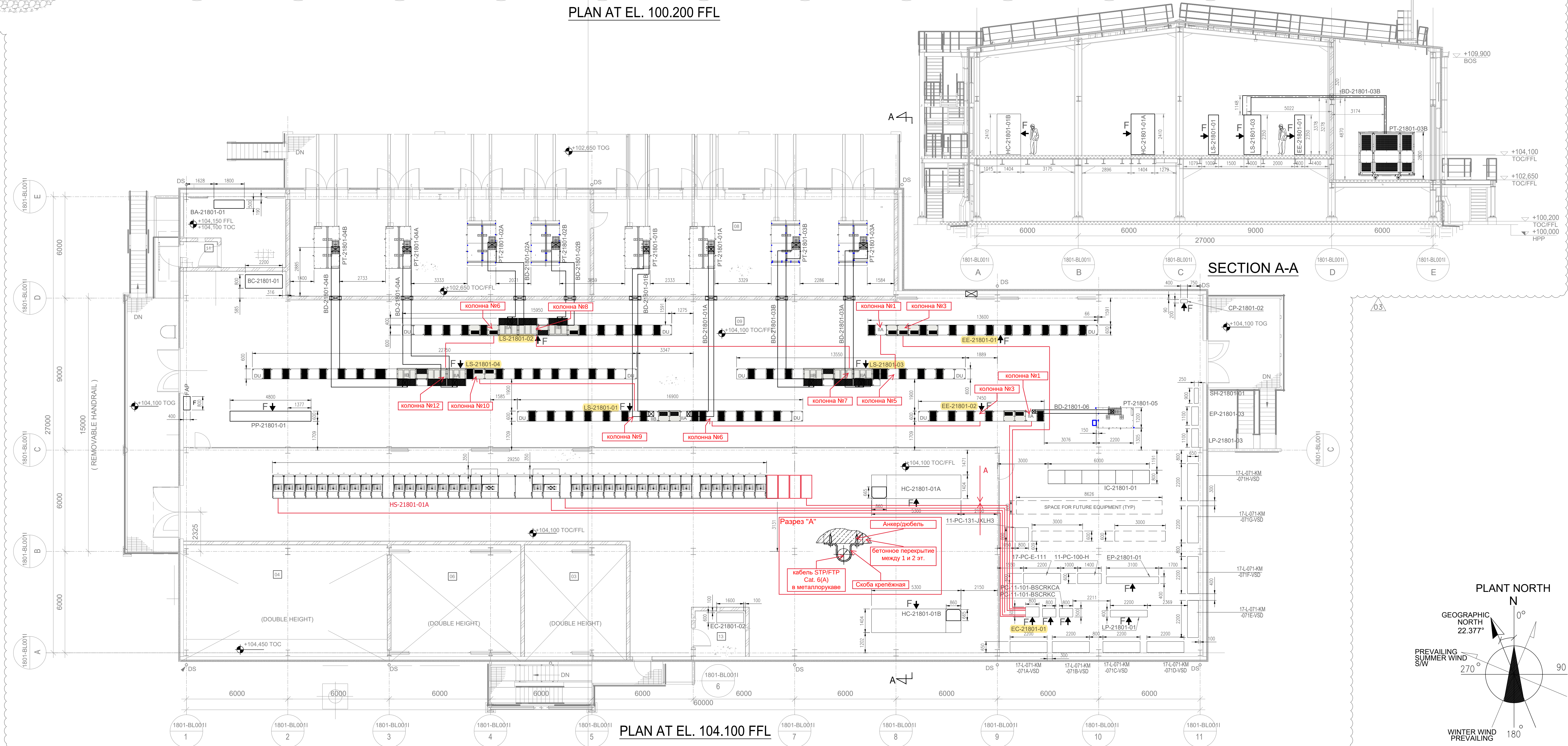




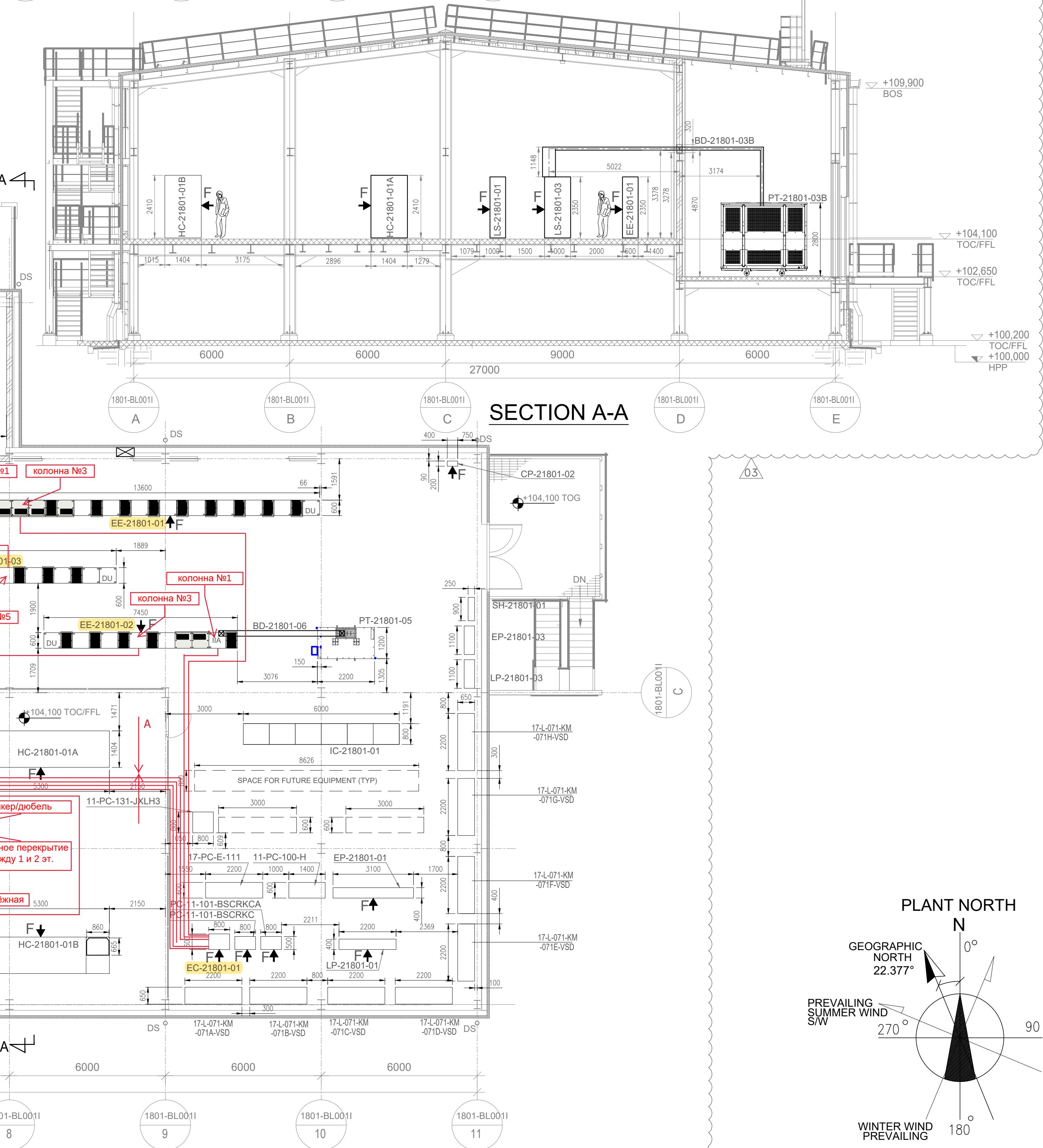
PLAN AT EL. 100.200 FFL

EQUIPMENT LIST	
ITEM NUMBER	DESCRIPTION
HS-21801-01	MV SWITCHGEAR
PT-21801-01A & 01B	MV CAPACITOR PANEL
PT-21801-01A	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 2500KVA
PT-21801-01B	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 4000KVA
PT-21801-02A	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 4000KVA
PT-21801-02B	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 4000KVA
PT-21801-03A	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 4000KVA
PT-21801-03B	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 4000KVA
PT-21801-04A	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 2500KVA
PT-21801-04B	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 2500KVA
PT-21801-05A	DRY TYPE DISTRIBUTION TRANSFORMER WITH OFF CIRCUIT TAP CHANGER, AN, 1000KVA
LS-21801-01	LV SWITCHGEAR
LS-21801-02	LV SWITCHGEAR
LS-21801-03	LV SWITCHGEAR
LS-21801-04	LV SWITCHGEAR
BD-21801-01A & 01B	LV BUSWAY
BD-21801-02A & 02B	LV BUSWAY
BD-21801-03A & 03B	LV BUSWAY
BD-21801-04A & 04B	LV BUSWAY
EE-21801-01	EMERGENCY POWER PANEL (AT 690V)
EE-21801-02	EMERGENCY POWER PANEL (AT 400V)
DELETED	
BD-21801-05	LV BUSWAY
LP-21801-01	MAIN ROUTINE LIGHTING PANEL
DELETED	
LP-21801-03	SUB ROUTINE LIGHTING PANEL
EP-21801-01	MAIN EMERGENCY LIGHTING PANEL
DELETED	
BD-21801-06	LV BUSWAY
BC-21801-01	DC UPS
SH-21801-01	SPACE HEATER PANEL
IC-21801-01	MARSHALLING PANEL (INTERFACE PANEL)
DE-21801-01	DIESEL GENERATOR IN CONTAINER (OUTSIDE SUBSTATION)
CP-21801-02	REMOTE CONTROL PANEL FOR DG SET (WALL MOUNTED)
PP-21801-03	HVAC PANEL (BY OTHERS)
BA-21801-01	BATTERY BANK FOR DC UPS BC-21801-01
PC-11-101-BSCRKCA	POWER CONTROLLER FOR AIR ELECTRIC HEATER (MAIN)
PC-11-101-BSCRKCA	POWER CONTROLLER FOR AIR ELECTRIC HEATER (STAND-BY)
17-L-071-KM-071A	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071B	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071C	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071D	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071E	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071F	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071G	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071H	VFD's FOR COOLING TOWER FANS
17-L-071-KM-071I	VFD's FOR COOLING TOWER FANS
FAP	FIRE ALARM PANEL (BY OTHERS)
EC-21801-01	ECS PANEL
EC-21801-02	ECS PANEL
17-PC-E-111	THYRISTOR PANEL FOR FUEL GAS HEATER
11-PC-100-H	THYRISTOR PANEL FOR FUEL GAS HEATER
11-PC-131-JKLH3	THYRISTOR PANEL FOR SEAL GAS HEATER

LEGEND	
SYMBOL	DESCRIPTION
	FRONT SIDE OF PANEL
	FRONT / REAR SIDE OF INCOMER/BUS TIE PANEL
	FENCE
REFERENCE DOCUMENTS	
TOM DOC. NUMBER	DESCRIPTION
4124-NN-SG-200000000	GENERAL DESIGN ELECTRICAL SPECIFICATION
4124-NN-DN-210000000	ELECTRICAL ONE LINE DIAGRAM - MAIN AMMONIA ELECTRICAL SUBSTATION
4124-NN-DW-200000004	TYPICAL INSTALLATION DETAILS - SUBSTATION
4124-NN-LE-210000001	ELECTRICAL EQUIPMENT LIST - MAIN PRODUCTION
4124-XX-DG-210000001	GENERAL LAYOUT - AMMONIA PROCESS AND UTILITIES PLANT
4124-XX-DE-210000001	EQUIPMENT LAYOUT KEY PLAN-AMMONIA PROCESS AND UTILITIES PLANT
4124-NN-NN-211000000	ELECTRICAL USER LIST AMMONIA PROCESS PLANT
4124-NN-LN-217000000	ELECTRICAL USER LIST - AMMONIA UTILITIES
4124-BB-DA-21801A01S01	PLOT PLAN POSITION NUMBER A10.001 MAIN SUBSTATION PLAN AT EL. +100.200 FFL
4124-BB-DA-21801A01S02	PLOT PLAN POSITION NUMBER A10.001 MAIN SUBSTATION PLAN AT EL. +104.150 FFL
4124-BB-DA-21801A01S03	PLOT PLAN POSITION NUMBER A10.001 MAIN SUBSTATION ROOF PLAN
4124-BB-DA-21801A01S04	PLOT PLAN POSITION NUMBER A10.001 MAIN SUBSTATION SECTIONS
NOTES	
1. ALL DIMENSIONS ARE IN MILLIMETERS, AND ALL LEVELS ARE IN METERS.	
2. DIMENSIONS OF ALL EQUIPMENT ARE INDICATIVE AND SHALL BE FINALIZED DURING DETAIL ENGINEERING BY EPC CONTRACTOR ACCORDING TO MANUFACTURERS DATA.	
3. FOR DIMENSIONS AND EQUIPMENT ARRANGEMENT IN SUPPLY VENTILATION CHAMBER AND FIRE EXTINGUISHING ROOM REFER TO SEPARATE DOCUMENTS BY RESPECTIVE DEPARTMENT.	
4. DISTANCES OF ELECTRICAL ITEMS FROM WALLS OR COLUMNS ARE REFERRED TO FINISHED WALL OR COLUMN.	
5. SUBSTATION SWITCHGEAR FLOOR SHALL BE AIR-CONDITIONED.	
6. FOR EXACT LOCATIONS AND DIMENSIONS OF DOORS, STAIRCASES, FLOOR CUTOUTS ETC. REFER RESPECTIVE CIVIL/ARCHITECTURAL DRAWINGS.	
7. COLUMN, DOOR LOCATIONS, DIMENSIONS, GRID NUMBERING OF COLUMNS, BEAMS & ELEVATION LEVELS DETAILS REFER RELEVANT CIVIL/ARCHITECTURAL DRAWINGS.	
8. ACID RESISTANT FLOORING SHALL BE PROVIDED FOR BATTERY ROOM.	
9. ALL SINGLE DOORS IN THE SUBSTATION SHALL BE METALLIC 1000Wx2100H ALL EXIT DOORS SHALL BE FITTED WITH PANIC BARS.	
10. IN CASE OF CONFLICT BETWEEN THE ENGLISH AND RUSSIAN VERSION OF THIS DOCUMENT, THE ENGLISH VERSION SHALL TAKE PRECEDENCE.	
11. LV BUS-DUCTS SHOWN IN THE LAYOUT DRAWING ARE INDICATIVE. FOR EXACT ROUTING REFER RELEVANT BUS DUCT VENDOR DOCUMENT.	
12. HVAC ROOM DIMENSIONS ARE INDICATIVE/TENTATIVE.	
13. EMERGENCY DIESEL GENERATOR SET WILL BE LOCATED ADJACENT TO SUBSTATION BUILDING IN A CONTAINER.	
14. ALL LANDING PLATFORMS SHALL BE PROVIDED WITH REMOVABLE HAND RAIL FOR LIFTING/SHIFTING OF ELECTRICAL EQUIPMENT.	
15. RACK ROOM DIMENSIONS INCLUDING INTRU. AND TELECOM PANELS TO BE INFORMED BY INSTRUMENTATION.	
16. WALL MOUNTED EQUIPMENT SHALL BE FASTENED AT THE LEVEL NO HIGHER THAN 2200mm FROM THE FLOOR LEVEL.	
17. THIS DRAWING IS GENERALLY REVISED FOR REV-03. 0.3	



PLAN AT EL. 104.100 FFL



SECTION A-A

KEY PLAN

AUTHORIZED FOR CONSTRUCTION
Утверждено для строительства

Date/Date: 29-10-2021 Signature/Подпись: S. Boldin

THIS DRAWING IS VALID FOR
ELECTRICAL EQUIPMENT LAYOUT ONLY

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REV	DESCRIPTION - ОПИСАНИЕ	DATE	PREPARED	CHECKED	APPROVED
03	ISSUE FOR CONSTRUCTION	29/10/2021	P. Eshkar	M. Dzh	S. Boldin
02	ISSUE FOR DESIGN	09/04/2021	P. Eshkar	M. Dzh	S. Boldin
01	ISSUE FOR REVIEW	09/04/2020	M. Pross	M. Dzh	C. Antonov

TECHNICAL SPECIFICATIONS: 4124-NN-DA-218010000

PROJECT: 4124-NN-DA-218010000

CLIENT: 3000 MTPD Ammonia

LOCATION: Kingsepp - Russian Federation

SCALE: 1:100