

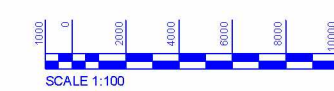
Construction Areas	
CA00	Area not in LEEDD scope
CA02	CO2 Compression / Refrigeration (Machine House)
CA03	Field Installation
CA05	Pipe Rack
CA41	Drying Unit
CA51	Rectification Unit
CA61	Tank Farm Unit
CA63	Ship Loading Unit
CA91	Cooling Water Unit

Equipments Process Area	
E001	CO2 Compressor Unit
E002	Refrigerant Compressor Unit
E005	Cooling Water Cooler (Air Cooler)
E006	CO2 Gas Pre-Cooler
E007	Regeneration Gas Heater
E009	CO2 Liquifier
E009	CO2 Reboiler
E010	CO2 Condenser
E011	CO2 Subcooler
E012	Vent Gas Heater
E013	Refrigerant Condenser (Air Cooler)
E014	Interstage Cooler
E015	Aft-After Cooler
E017	Export CO2 Gas Heater
F001	Particle Filter
P001 AIR	Condensate Pump
P005 AIR	Cooling Water Pump
P006 AIR	Refrigerant Pump
S001	Vent Gas Blower
T001	CO2 Column
V001	Compressor Knock Out Drum
V002	Water Separator
V003 AIR	Driver
V004	Suction Drum
V005	Refrigerant Receiver
V006	Refrigerant Economizer
V007	Cooling Water Expansion Vessel
Y003	CO2 Ship Loading Station
Y004	Oil Unit
Y005	Air Purger

- Notes:
- Reference Drawing &AE-0000-L-ZP 1012(EN), &AE-0000-L-ZP 1013(EN), &AE-0000-L-ZP 1014(EN) Equipment Arrangement CO2 Liquefaction Side Views
  - Air cooler size E613 according vendor offer (Famet)
  - Size of compressor house currently defined by vendor compressor typicals (Siemens), to be finally defined after vendor selection

**LEGENDA**

**1** Nummering bouwwerken in B01



DATE	STATUS	BY	CHKD	REVISION	APPROVED	DESCRIPTION
1.0	06.09.2022					First Draft

Carbon Capture Storage Plant, Sluiskil

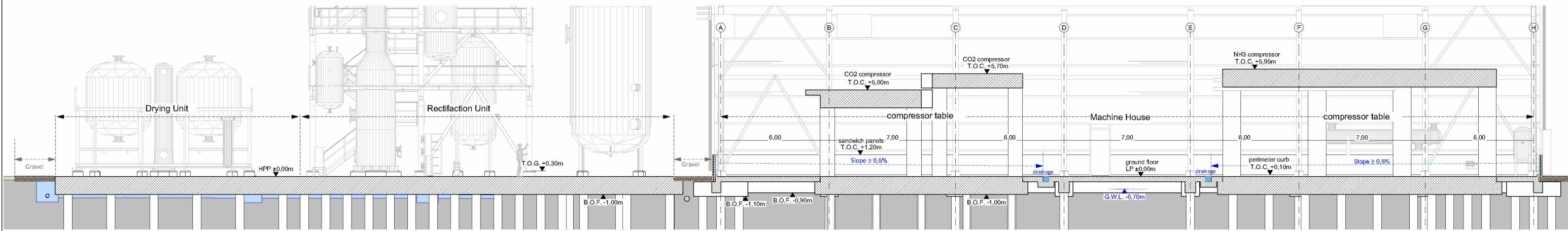
**Linde**

CLIENT PROJECT NO: 37102018 CLIENT PROJECT NO: 10011  
CLIENT PROJECT CODE: C0000 CLIENT PROJECT CODE: CACTUS

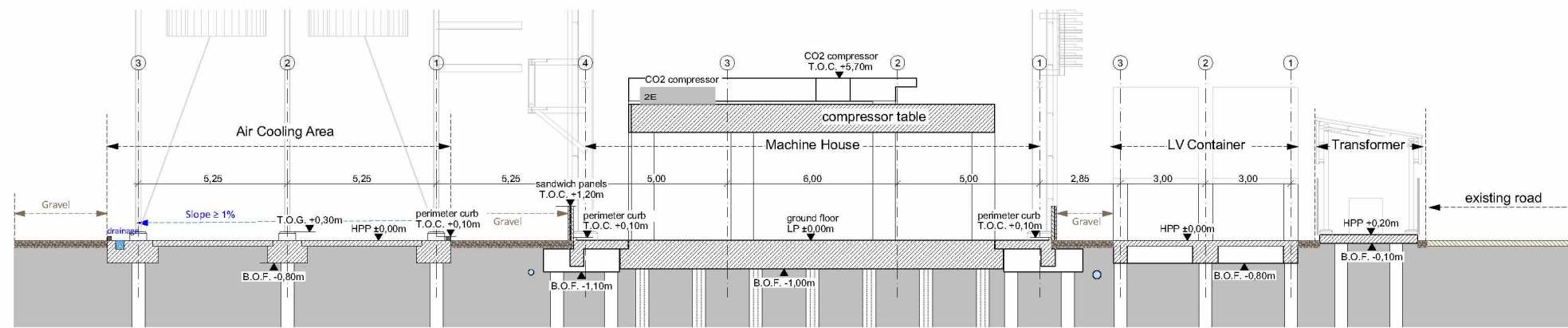
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TITLE: Equipment Arrangement Drawing  
CO2 Liquefaction  
Overview

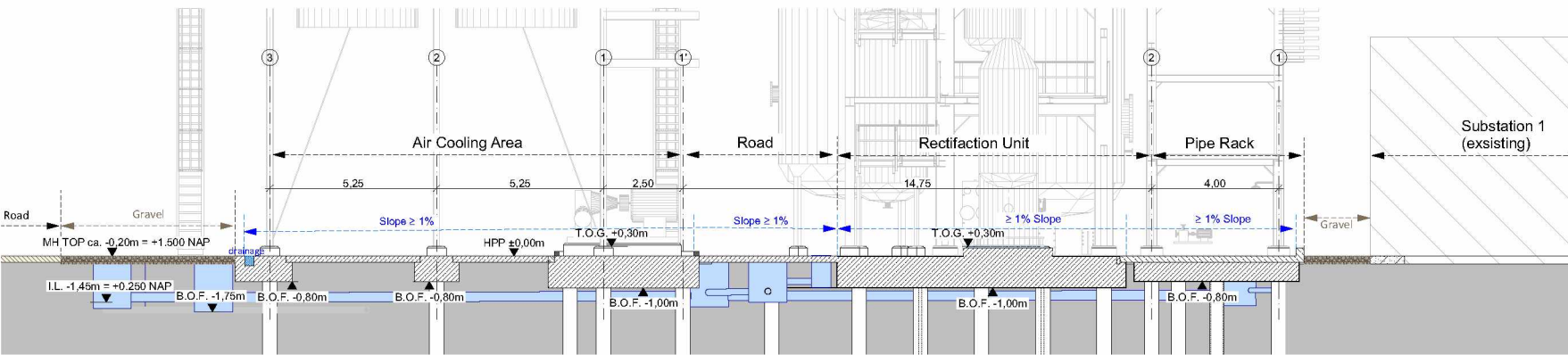
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DRAWING NO: &AE-0000-L-ZP 1011(EN)  
MARKING NO: 16471-P-07-00010



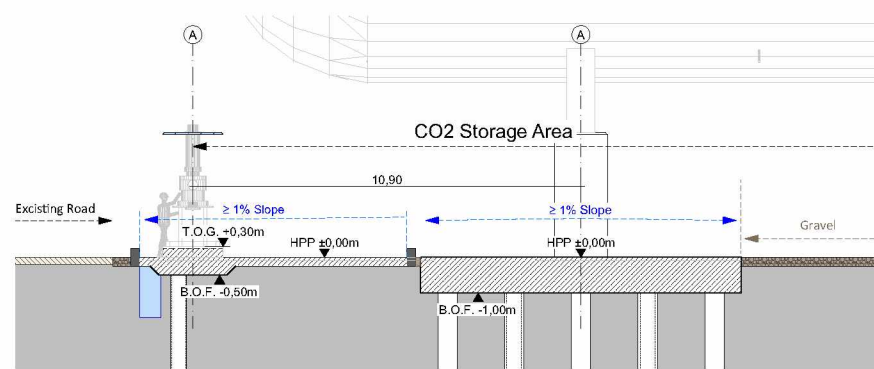
Section 1-1



Section 2-2



Section 3-3



Section 4-4

Legend

- HPP High Point Paving
- HPG High Point Gravel
- NAP Normal Amsterdam Pegel
- M+H Manhole
- T/B Top/ Bottom
- TOC Top of Concrete
- TOG Top of Grout
- BOS Bottom of Steel
- BOF Bottom of Foundation
- I.L. Invert Level
- N.C. Normally Closed
- Existing Road
- Existing Underground Facilities
- Existing Buildings
- Concrete Pavement
- Asphalt Road
- Walkway (Concrete Paver)
- Gravel
- Foundation Slab/ Beam
- Curb
- Concrete Pedestals (incl. Grouting)
- Precast Concrete Manhole
- Catch Basin
- Drainage Gutter
- Manhole
- Slope

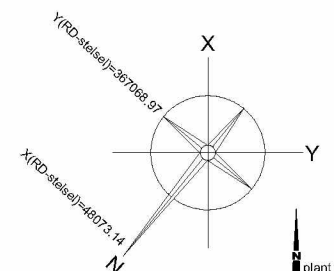
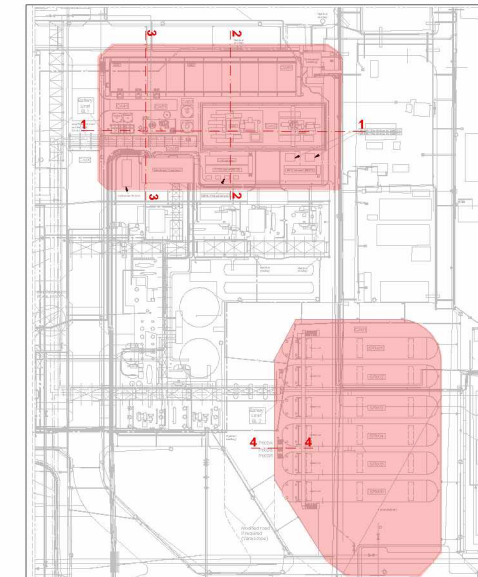


**GWL Ground Water Level**  
 assumption:  
 existing grade elevation is supposed to be between +1,40m and +1,50m NAP.  
 Tei-In elevation (I.L.) is supposed to be equal or lower then +0,25 NAP.

Reference Drawings

Doc. No.	Title
&AE 0000 L-ZP 1001 (EN)	Overall Plotplan

Key Plan with Section Views



Basic Level YARA = 1.700 + NAP = +/- 0.000 Plant Reference Level (HHP)  
 Groundwater Level = 1.000+ NAP = -0.700 Plant Reference Level (HHP)

DATE	STATUS	DESIGN	OPERATION	REVISION	APPROVED	OCCUPATION
1.0	21.11.2022	DESIGN				Issued for Permit

Carbon Capture Storage Plant, Sluiskil

LINDE PROJECT NO: 3710 AD 20  
 SKAT PROJECT NO: 18471-1965-0001  
 LINDE PROJECT CODE: 18471-1965-0001  
 SKAT PROJECT CODE: 18471-1965-0001

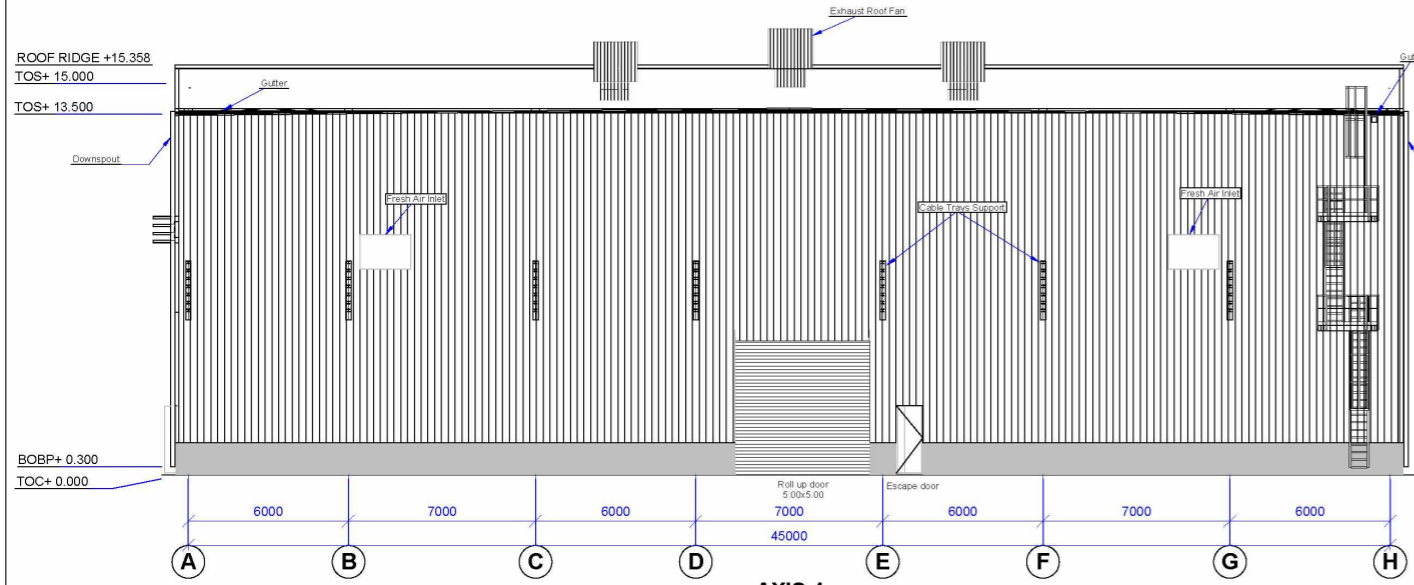
**Section views - CO2 Liquefaction & Storage**  
 SCALE: 1:100  
 SHEET: 1 of 1



# 1. Compressorgebouw

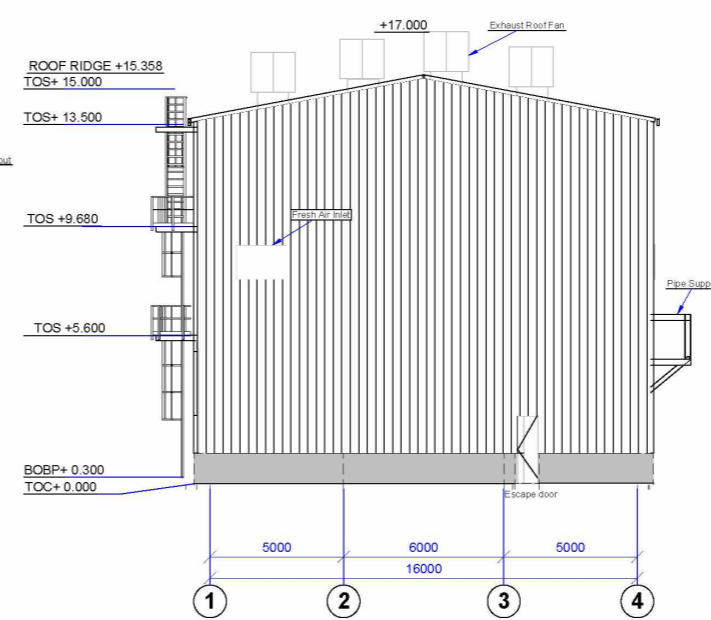
## AXIS 1

Looking North  
SCALE: 1:100 mm



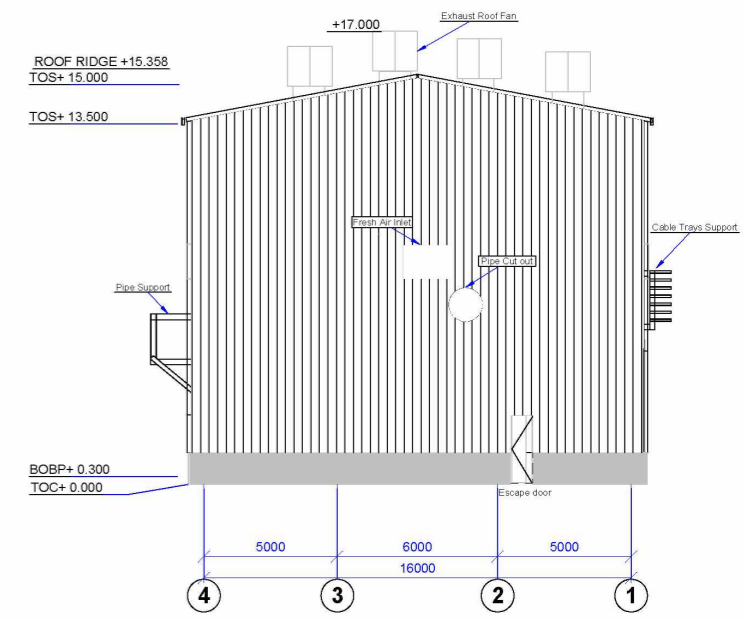
## ROW H

2E  
SCALE: 1:100 mm



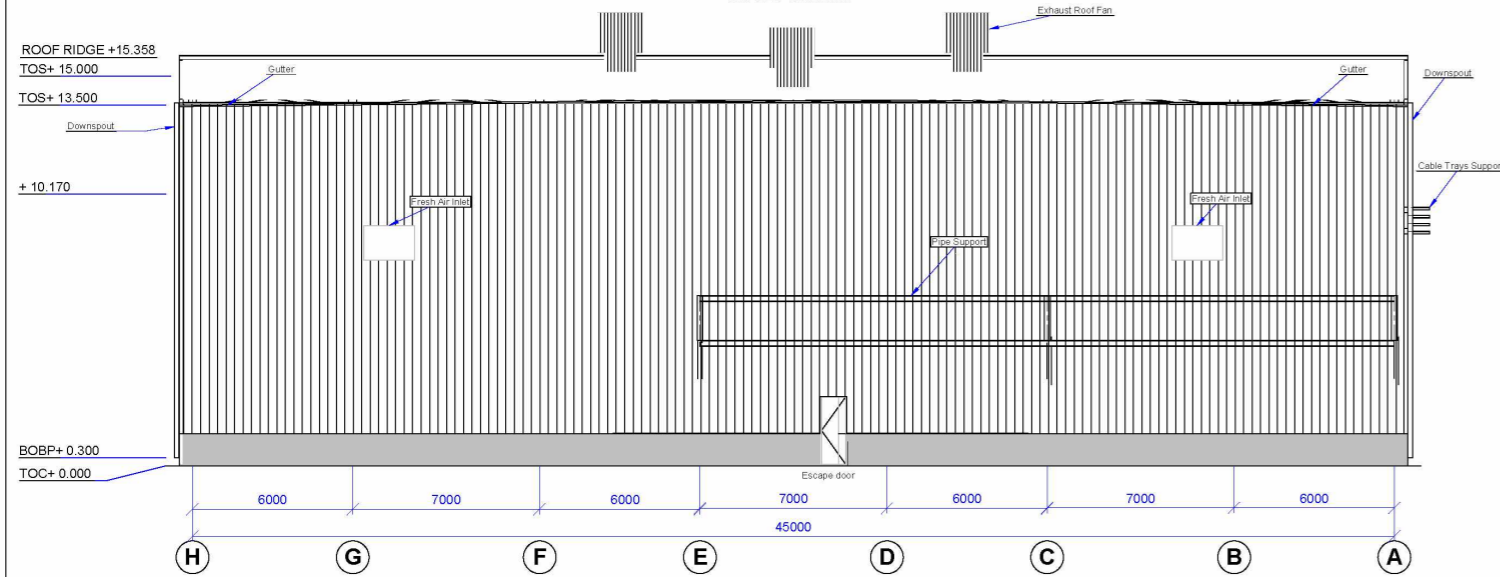
## ROW A

Looking East  
SCALE: 1:100 mm



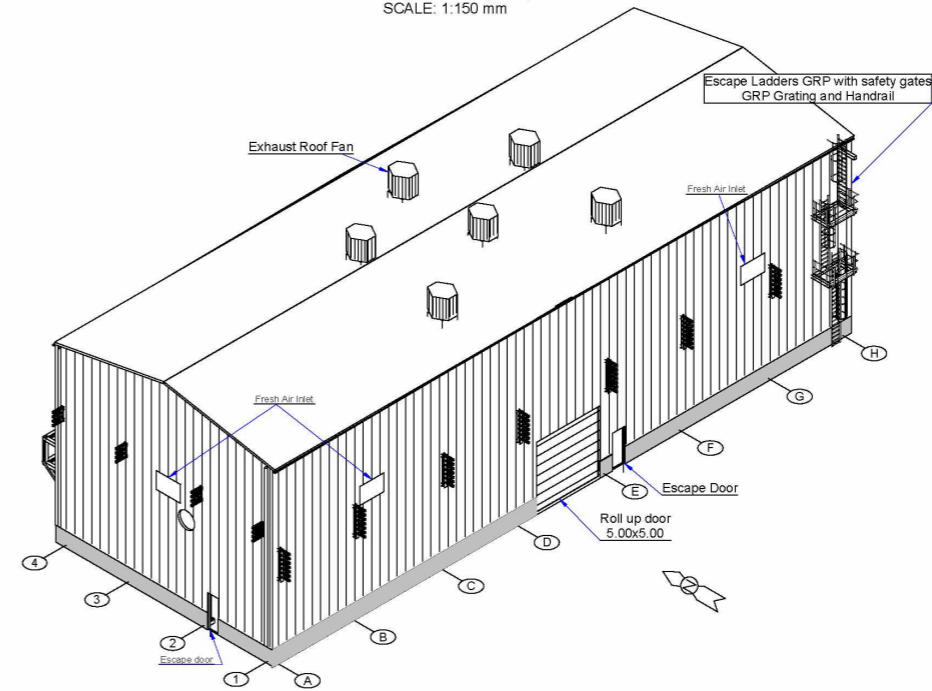
## AXIS 4

Looking South  
SCALE: 1:100 mm



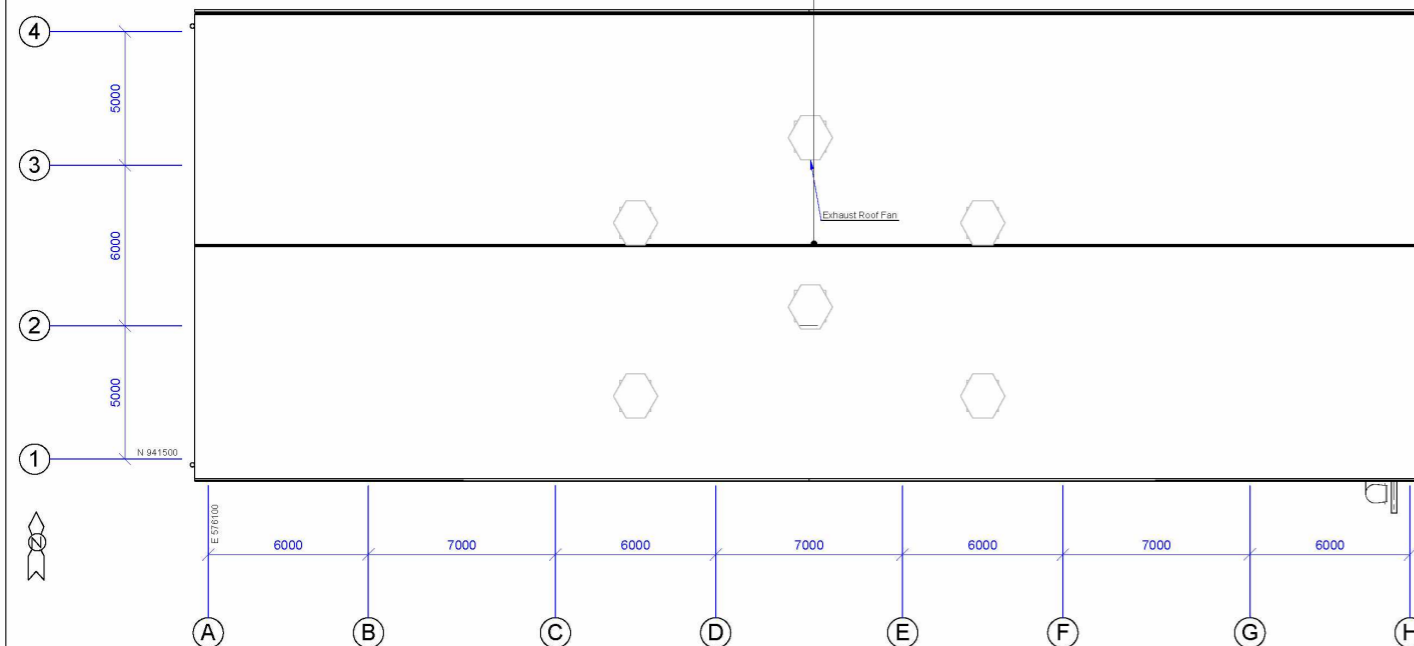
## ISOMETRIC VIEW

Looking Northeast (Down)  
SCALE: 1:150 mm



## ROOF VIEW

Looking Plan  
SCALE: 1:100 mm



- Remarks:
- All dimensions are in mm, levels & co-ordinates are in meter.
  - All elevations are top of steel unless noted otherwise.
  - This is a feed document, and no construction shall be made based on this drawing.
  - All layout, coordinates and dimensions are indicative and shall be confirmed during detail engineering.
  - Railing height is 1200 mm in floors and staircase above 13 m above grad
  - Structure type: corrosion protected metal building, framing system with braces in longitudinal sides
  - Foundation: supported by reinforced concrete pile caps supported on piles
  - Wall cladding: insulated sandwich panels with noise protection ~ 33 dB and U value < 0,24 W/m²K
  - Roof cladding: insulated sandwich panels with noise protection ~ 33 dB and U value < 0,24 W/m²K
  - Dewatering: Gutter and downspouts made of stainless steel, downspouts are connected to sewer system
  - Ventilation system: Mechanical forced system for providing of required air exchange rate and for compensation of heat emission
  - Fall prevention on roof: Cable-based system with fall arrest systems Type C (EN 795)
  - Doors: insulated metal doors (~ 33 dB)
  - Gate: electrical roll-up gate (27 dB)

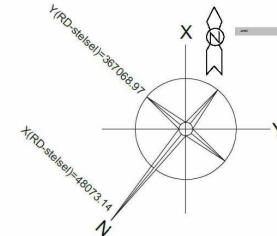
Abbreviations:  
TOS Top of Steel  
BOBP Bottom of Base Plate  
TOC Top of Concrete

References:  
&AE 0000 N-SP 1001 (EN) Steel Structure and Civil Design Basis & General Description  
YARA No 16471-Y85-00001

0542FA5480 2001 N-CS 1001 (EN) Statical Pre-Calculation for Machine House  
YARA No 16471-Y16-00003

&AE 2001 N-ZC 1002 (EN) General Layout Drawings-Machine House  
SG 0201 Elevation and Section Views  
YARA No 16471-Y58-00005

&AE 2001-C-ZA 1001 (EN) General Arrangement Drawing - Foundations  
Piling - CO2 Liquefaction  
YARA No 16471-Y56-00007

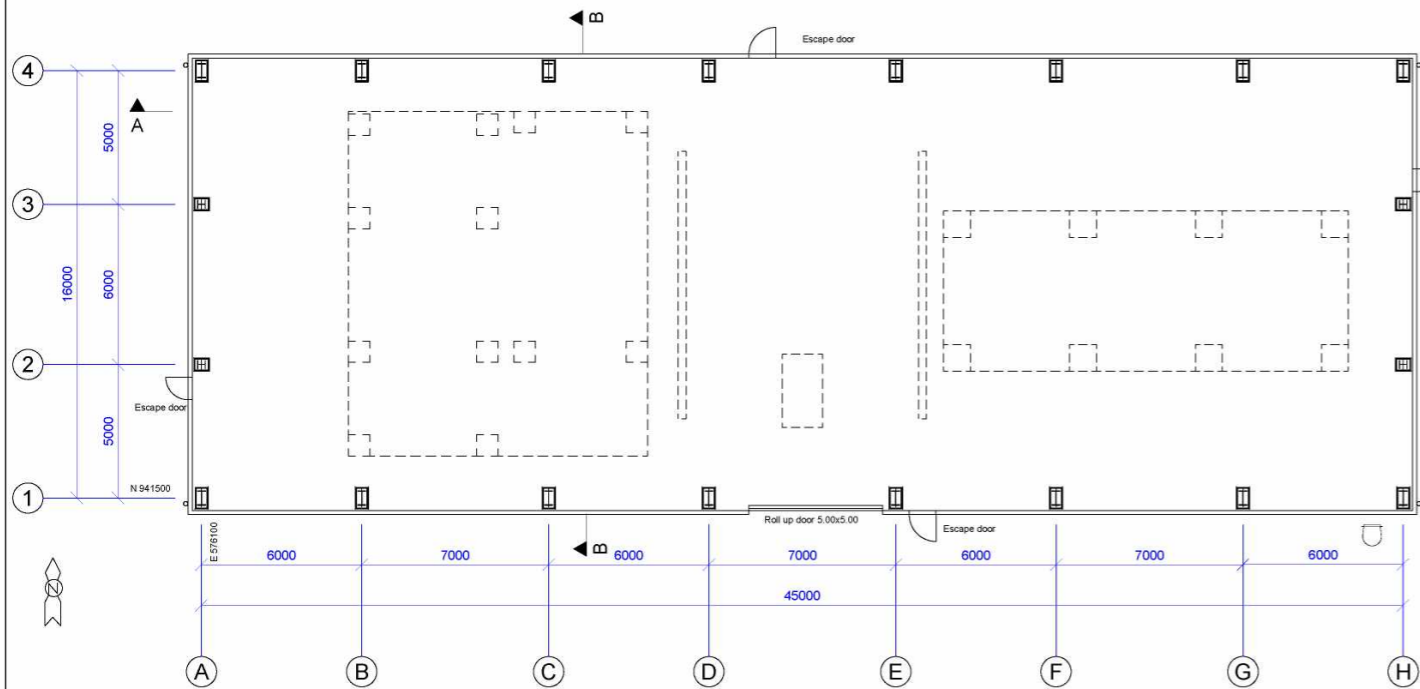


+/-0,000 = 1.700 m N.A.P.

T.O.	DATE	STATUS	DIVISION	REVISIONS	APPROVED	DESCRIPTION
1.0	18.11.22	Issue				Issued for FEED
TEAM RESPONSIBILITY						
Carbon Capture Storage Plant, Sluiskil						
UNDERPROJECT NO.	37104918	CLIENT PROJECT NO.	16591			
UNDERPROJECT CODE	Sluiskil	CLIENT PROJECT CODE	CACTUS			
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<b>TITLE</b> GENERAL LAYOUT DRAWINGS MACHINE HOUSE SG 0201 Facade Views						
SCALE	SIZE	UNED DTC. NO.	&AE 2001 N-ZC 1001 (EN)	SHEET	08/10	
	A0	TRAKDTC. NO.	16471-Y58-00005	REV.	1	OF

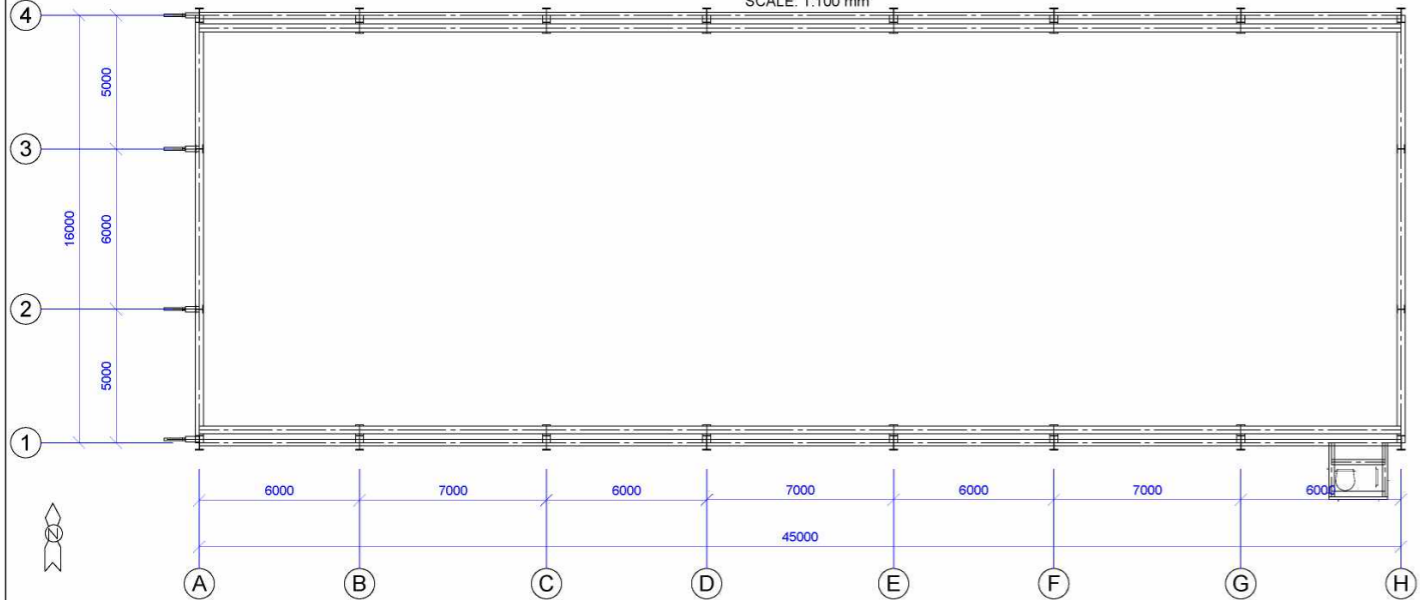
### BASEPLATE OVERVIEW

Looking Plan  
SCALE: 1:100 mm



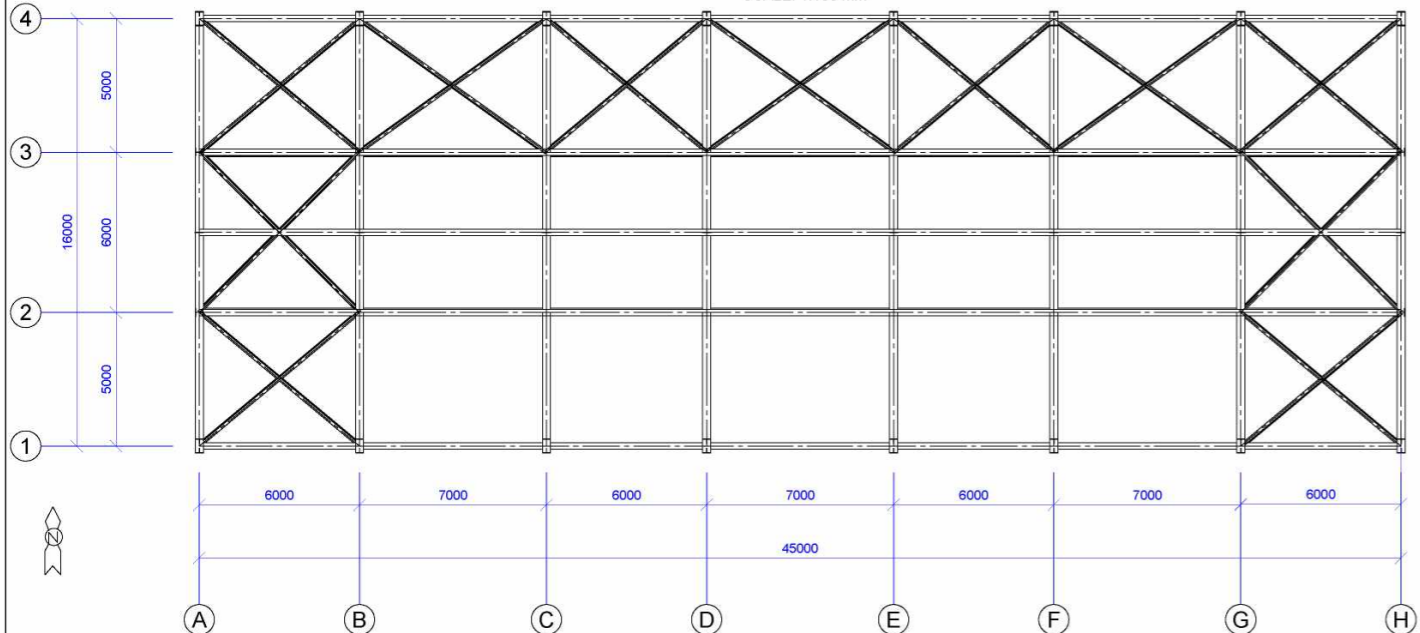
### TOS OVERHEAD CRANE LEVEL

Looking Plan  
SCALE: 1:100 mm



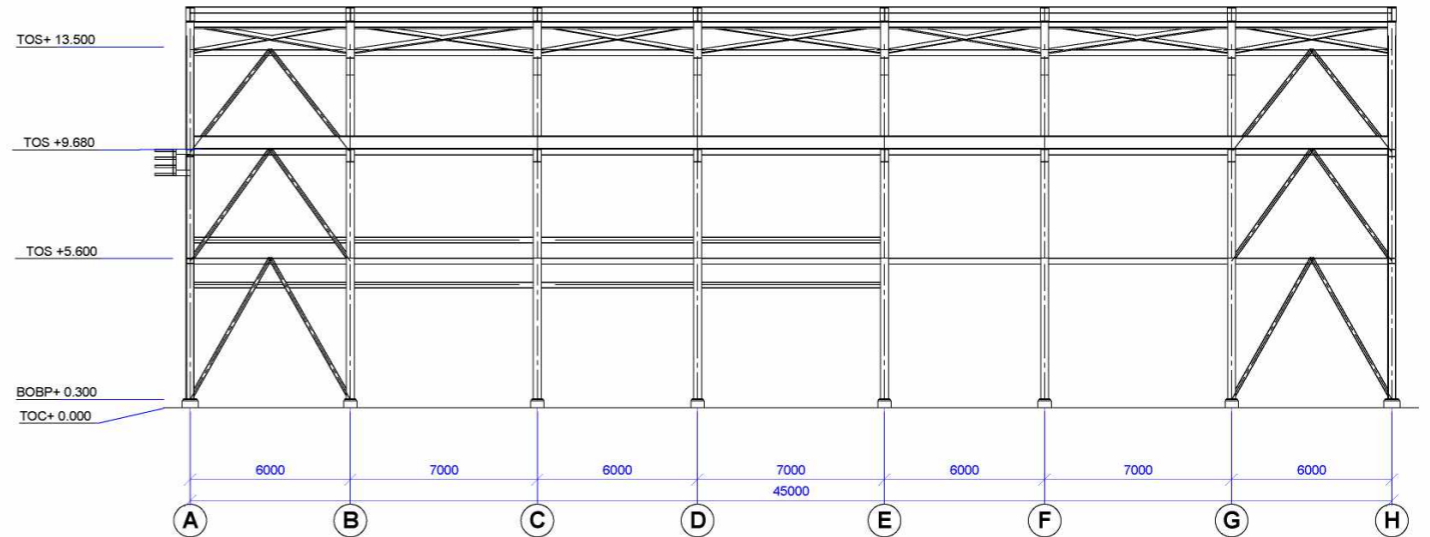
### ROOF VIEW

Looking Plan  
SCALE: 1:100 mm



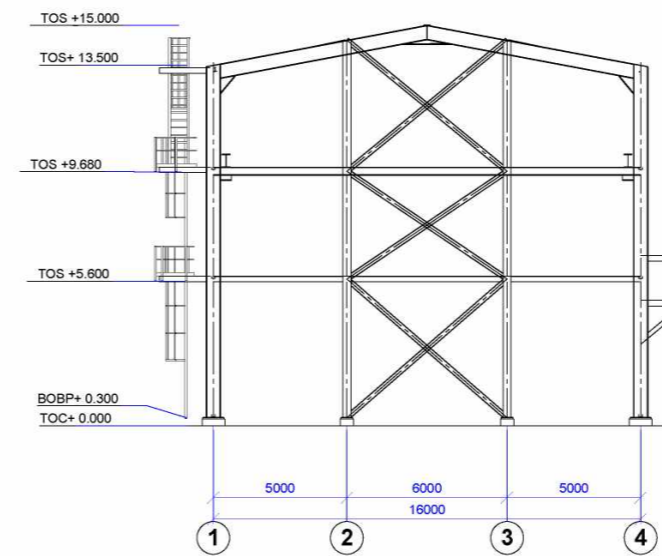
### SECTION A-A

Looking North  
SCALE: 1:100 mm



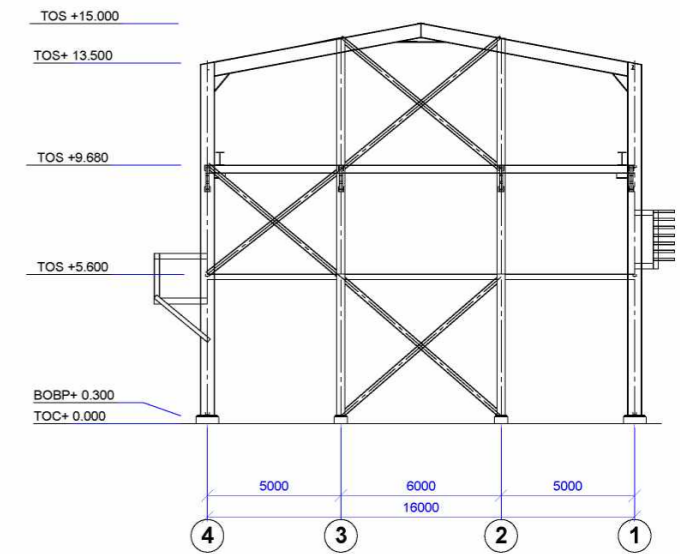
### ROW H

Looking West  
SCALE: 1:100 mm



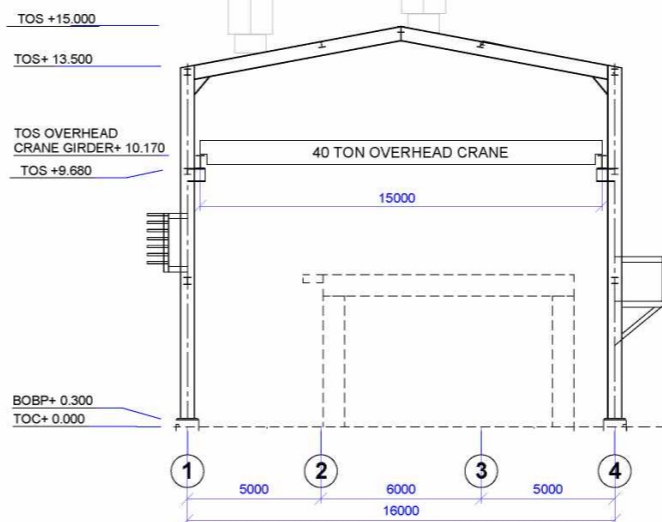
### ROW A

Looking East  
SCALE: 1:100 mm



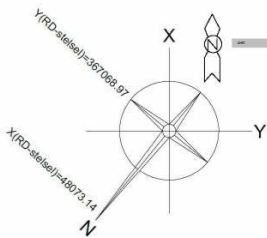
### SECTION B-B

Looking West  
SCALE: 1:100 mm



Remarks:

- 1-For general remarks, abbreviations and references, refer to drawing No &AE 2001 N-ZC 1001 (EN)
- 2-Main steel shown without cladding supporting elements



+/- 0.000 = 1.700 m N.A.P.

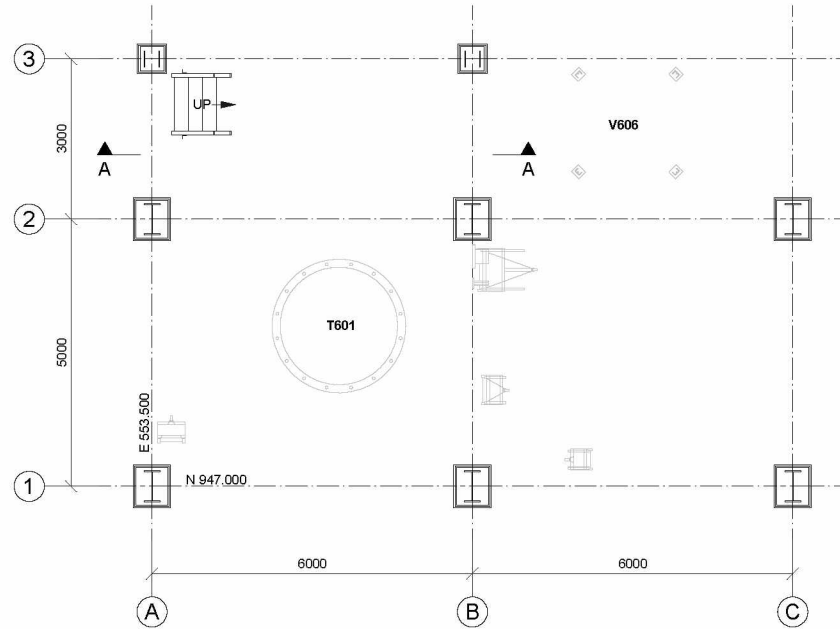
DATE	BY	CHECKED	APPROVED	DESCRIPTION
1.0	18.11.2022			Issued for F.EED
PROJECT DESCRIPTION: Carbon Capture Storage Plant, Sluiskil				
CLIENT PROJECT NO.	3710478	CLIENT PROJECT NO.	14471	
CLIENT PROJECT CODE	SS&S	CLIENT PROJECT CODE	CACTUS	
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TITLE: GENERAL LAYOUT DRAWINGS MACHINE HOUSE SG 0201 Elevation and Section Views				
SCALE:	AD	WORK CODE: NO 16471-Y58-00005	SHEET	01 OF 01



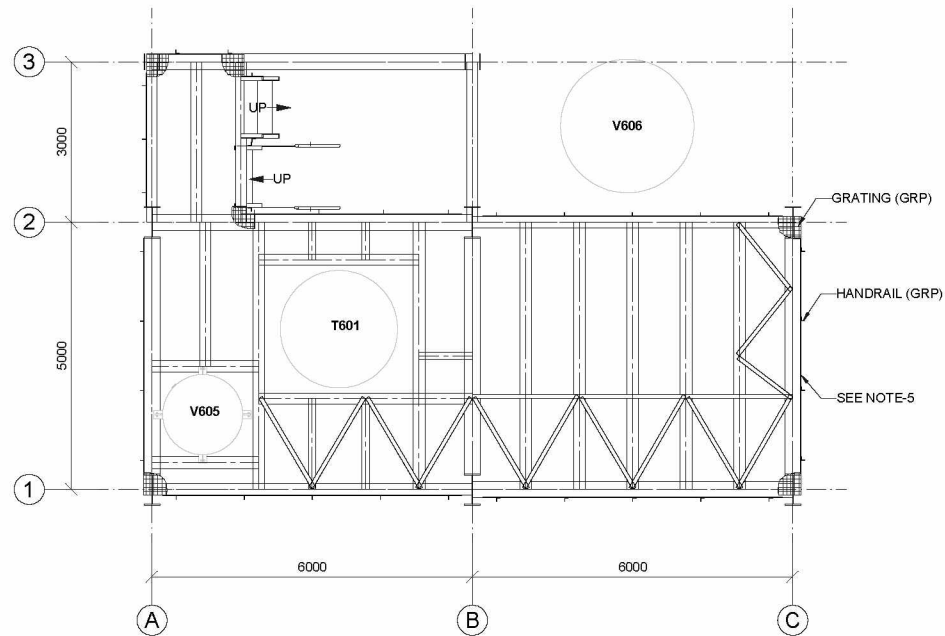
# 2. CO<sub>2</sub> Liquifaction

## PLAN AT EL+0.300 BOBP

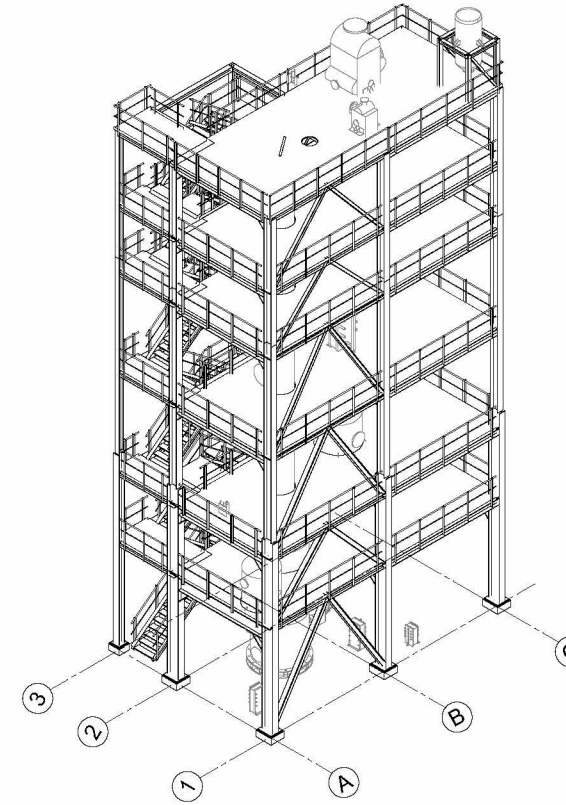
FOR SECTION A-A REFER DWG. NO. &AE 2001 N-ZB 1003 (EN)



## PLAN AT EL+5.000 TOS



## ISOMETRIC VIEW



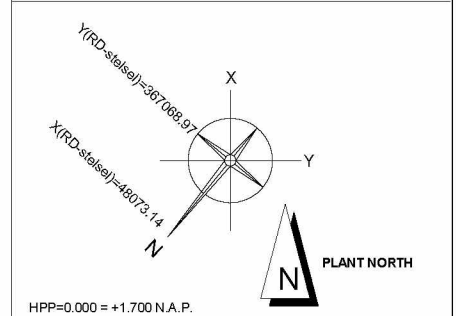
- NOTES:**
1. ALL DIMENSIONS ARE IN MM, LEVELS & CO-ORDINATES ARE IN METER.
  2. ALL ELEVATIONS ARE TOP OF STEEL UNLESS NOTED OTHERWISE.
  3. THIS IS A FEED DOCUMENT AND NO CONSTRUCTION SHALL BE MADE BASED ON THIS DRAWING.
  4. ALL LAYOUT, CO-ORDINATES AND DIMENSIONS ARE INDICATIVE AND SHALL BE CONFIRMED DURING DETAIL ENGINEERING.
  5. SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.

### REFERENCES

LINDE DOC. NO/ OWNER DOC. NO.	TITLE
&AE 2001 N-ZB 1002 (EN) / 16471-Y56-00013	STEEL STRUCTURE LAYOUT DRAWING STRUCTURE SK5101 LEVEL VIEWS PART-2
&AE 2001 N-ZB 1003 (EN) / 16471-Y56-00014	STEEL STRUCTURE LAYOUT DRAWING STRUCTURE SK5101 ELEVATIONS
0542FA4650 2001 N-CS 1002 (EN) / 16471-Y16-00009	STRUCTURAL PRE-CALCULATION FOR EQUIPMENT STRUCTURE SK 5101
&AE 2001 C-ZA 1001 (EN) / 16471-Y56-00007	GENERAL ARRANGEMENT DRAWING FOUNDATION / PILING CO2 LIQUIFICATION
&AE 0000 N-SP 1001 (EN) / 16471-Y85-00001	STEEL STRUCTURE AND CIVIL DESIGN BASIS & GENERAL DESCRIPTION

### LEGENDS

- TOS TOP OF STEEL
- BOBP BOTTOM OF BASE PLATE
- HPP HIGH PAVING POINT
- N.A.P NORMAAL AMSTERDAMS PEIL
- ◻ MOMENT CONNECTION



REV	DATE	STATUS	DESIGNER	CHECKED	APPROVED	REVISION
1.0	18 11 2022	2E				ISSUED FOR FEED

Carbon Capture Storage Plant, Sluisdijk

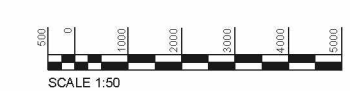
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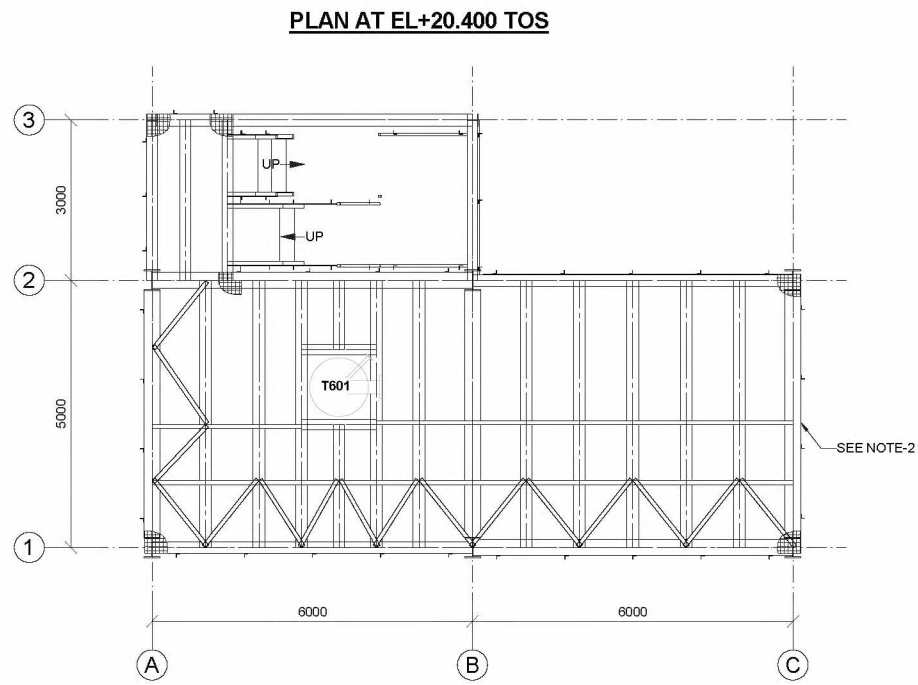
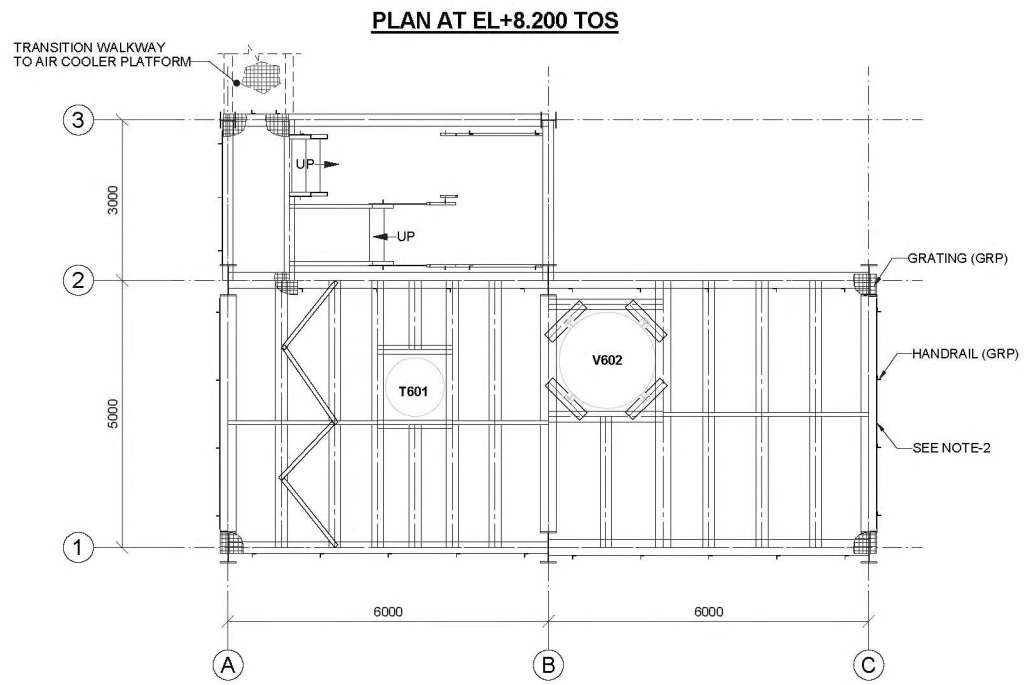
CLIENT PROJECT NO: 37102018 CLIENT PROJECT NO: 10071  
CLIENT PROJECT CODE: C04088 CLIENT PROJECT CODE: CACTUS

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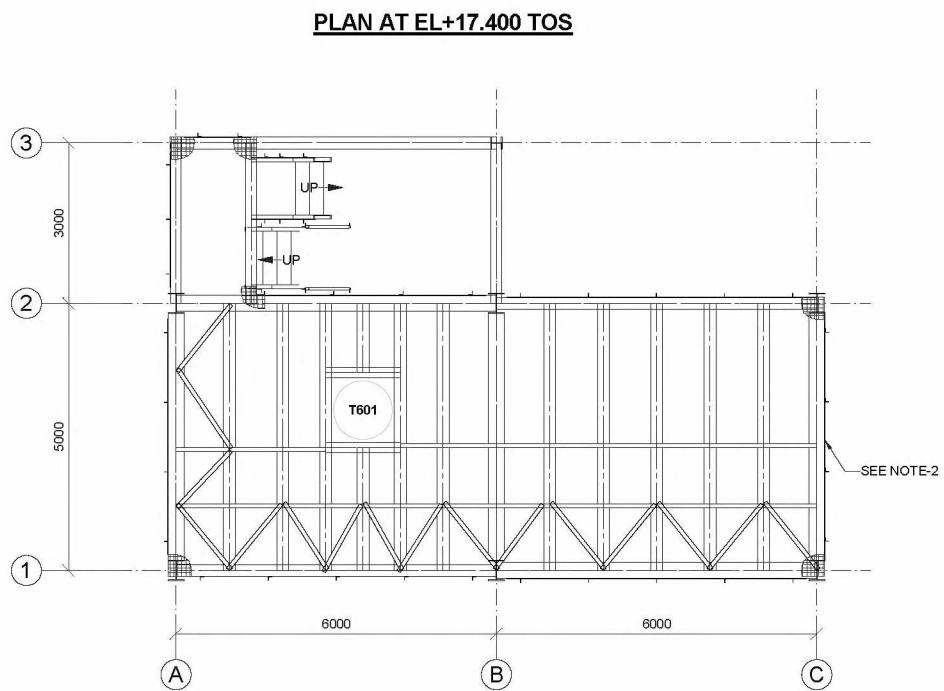
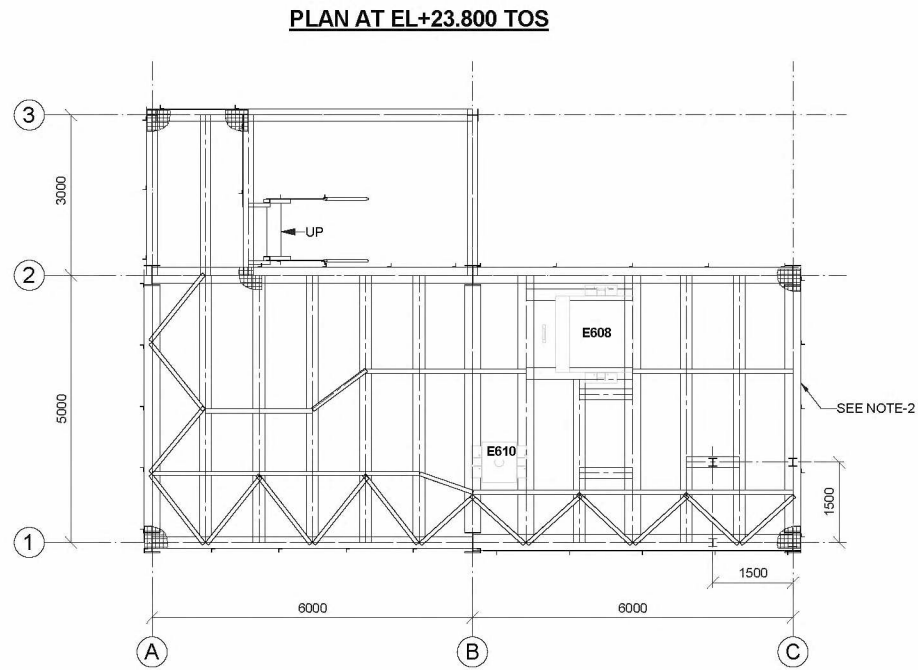
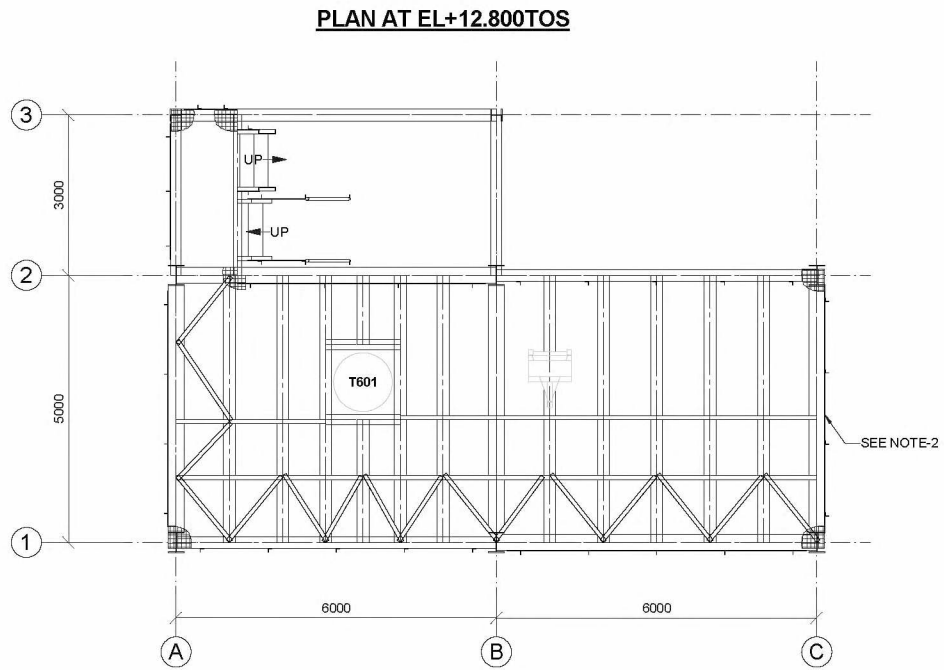
TITLE: STEEL STRUCTURE LAYOUT DRAWING  
STRUCTURE SK5101  
ISOMETRIC VIEW & LEVEL VIEWS PART-1

SCALE: 1:100 SHEET: 1 OF 1  
DWG NO: &AE 2001 N-ZB 1001 (EN)  
TRK NO: 16471-Y56-00004

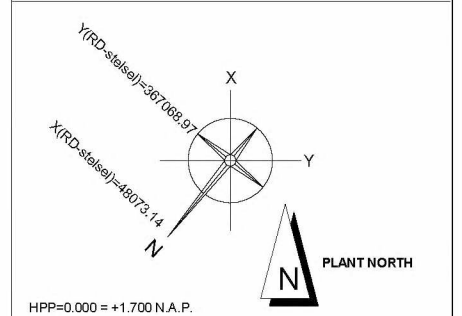
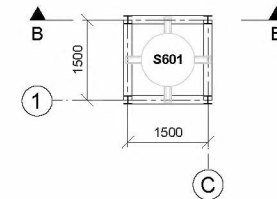




**NOTES:**  
 1. FOR GENERAL NOTES, LEGENDS AND REFERENCE DRAWINGS REFER DRAWING NO. &AE 2001 N-ZB 1001 (EN).  
 2. SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.

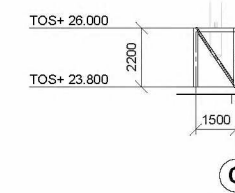
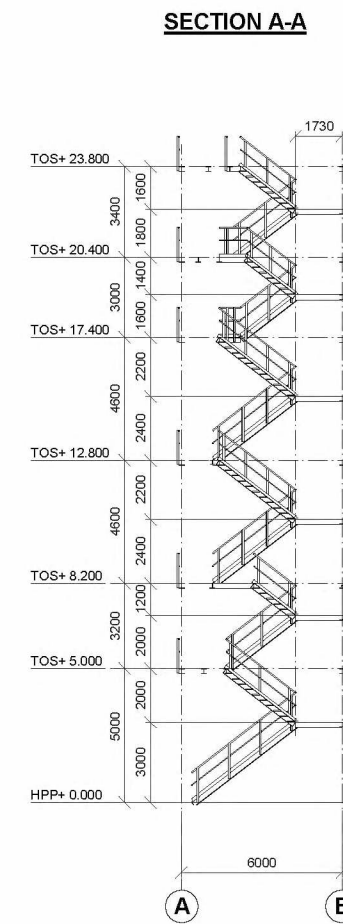
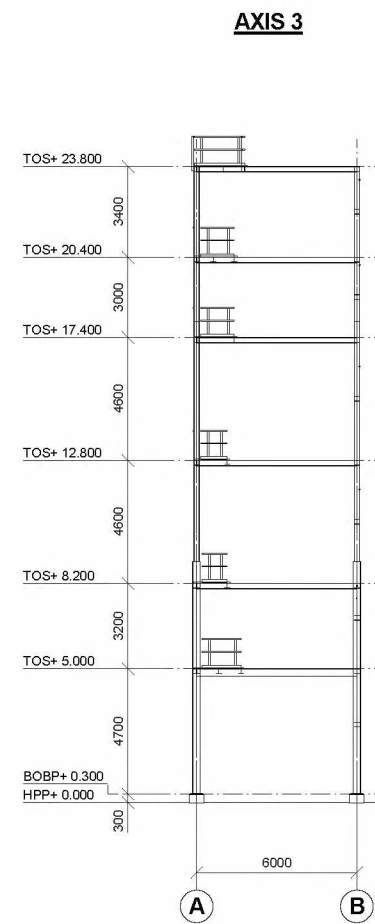
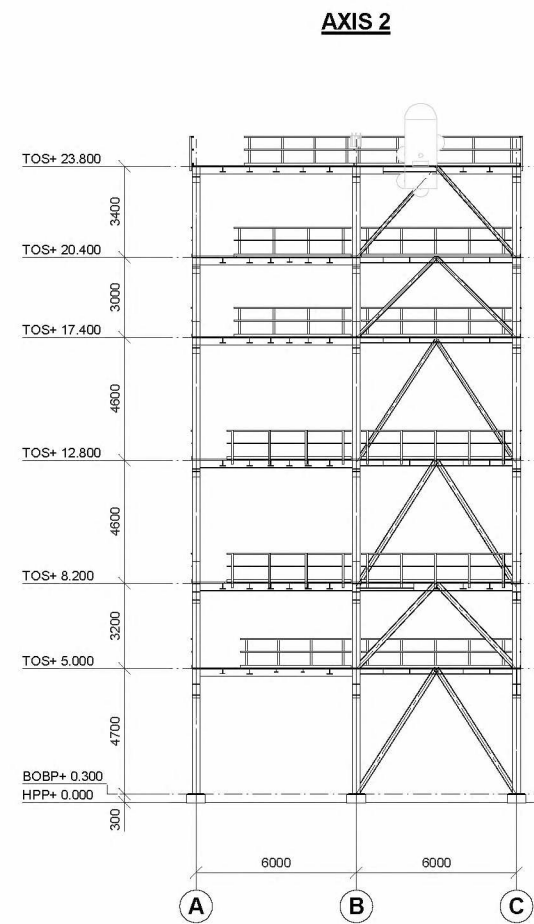
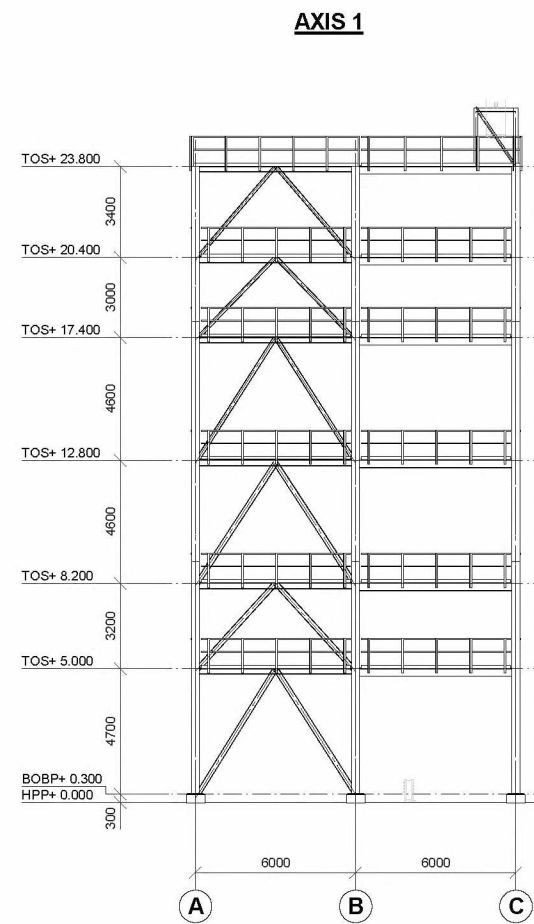


**PLAN AT EL+26.000 TOS**  
 FOR SECTION B-B REFER DWG.NO. &AE 2001 N-ZB 1003 (EN)

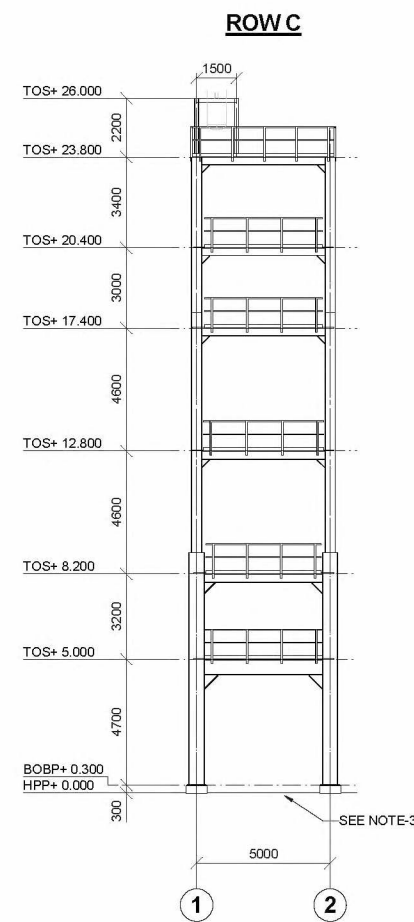
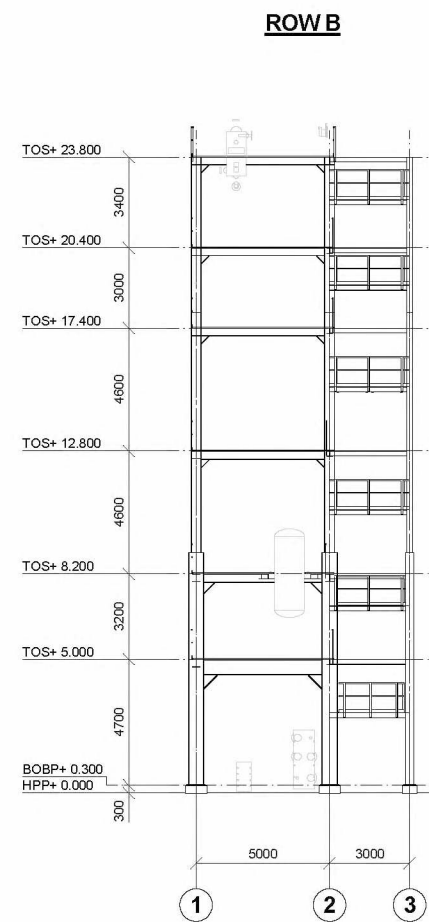
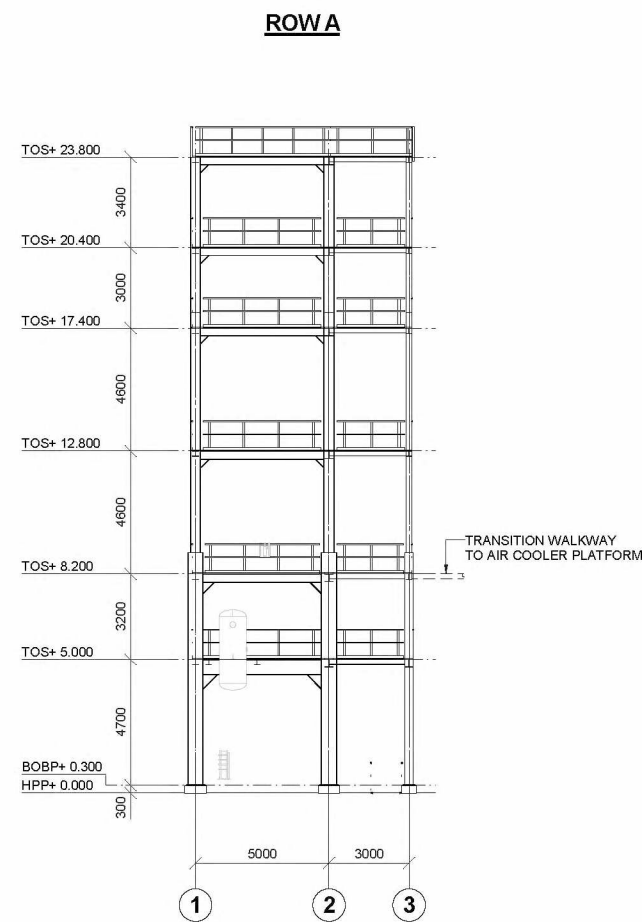


1.0	18.11.2022	2E	2E	ISSUED FOR FEED
DATE	STATUS	DESIGN	REVISIONS	APPROVED
TEAM DESCRIPTION				
Carbon Capture Storage Plant, Sluisdijk				
LINE PROJECT NO.	37102018	CLIENT PROJECT NO.	18971	
LINE PROJECT CODE	04088	CLIENT PROJECT CODE	CACTUS	
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TITLE: STEEL STRUCTURE LAYOUT DRAWING STRUCTURE SK5101 LEVEL VIEWS PART-2				
SCALE	1:100	REV	AD	DATE
SCALE	1:100	REV	AD	DATE
DWG NO. &AE 2001 N-ZB 1002 (EN)				SHEET
TRK NO. 16471-Y26-00013				1 of 1





- NOTES:**
- FOR GENERAL NOTES, LEGENDS AND REFERENCE DRAWINGS REFER DRAWING NO. &AE 2001 N-ZB 1001 (EN).
  - RAILING HEIGHT IS 1.2 m IN FLOORS AND STAIR CASE ABOVE 13 m FROM GRADE.
  - SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.



HPP=0.000 = +1.700 N.A.P.

DATE	STATUS	DESIGN	ENGINEER	REVISOR	APPROVED	REVISION
18.11.2022	2E					ISSUED FOR FEED

Carbon Capture Storage Plant, Sluiskil

**Linde**

CLIENT PROJECT NO: 37104218  
CLIENT PROJECT NO: 10571  
CLIENT PROJECT CODE: C0488  
CLIENT PROJECT CODE: CACTUS

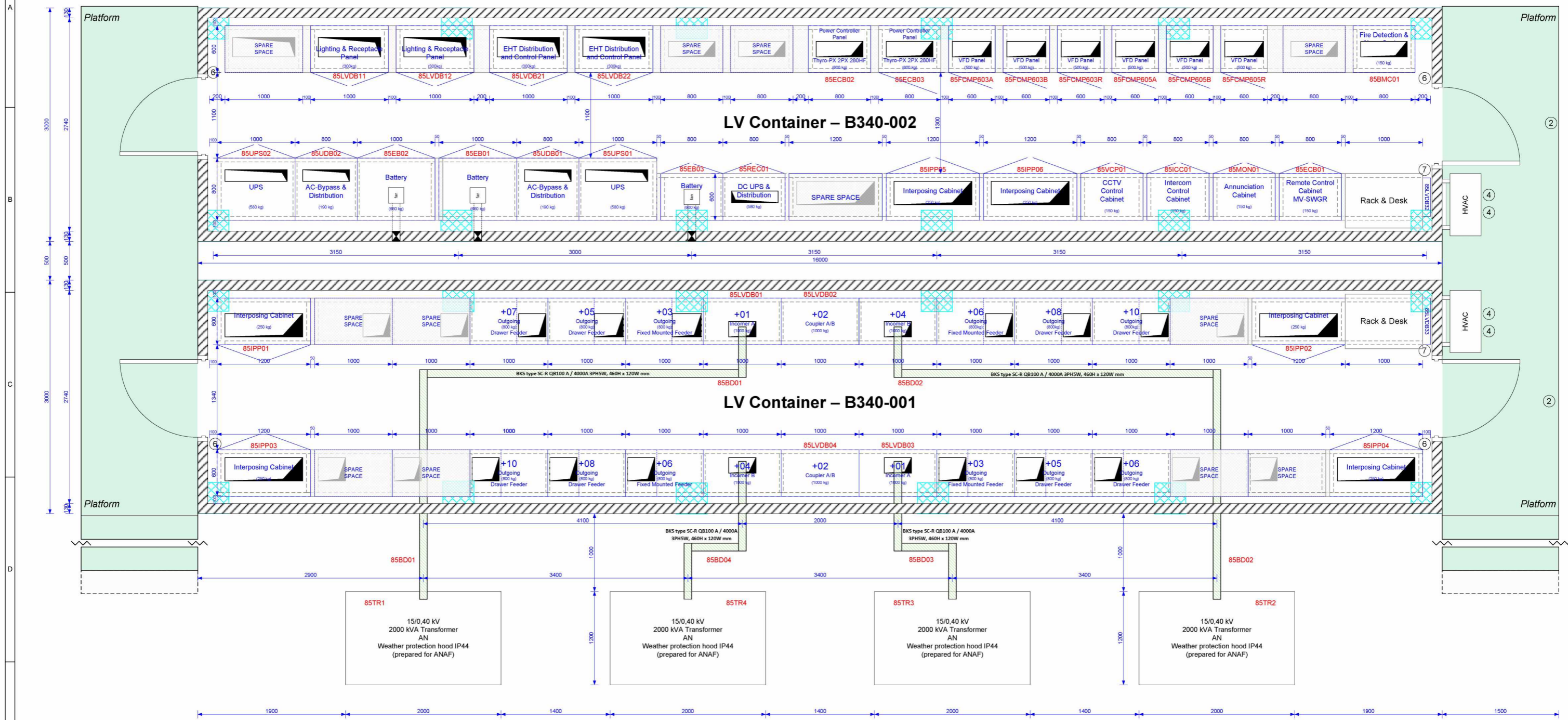
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**STEEL STRUCTURE LAYOUT DRAWING  
STRUCTURE SK5101  
ELEVATIONS**

SCALE: 1:100  
SHEET: 1 OF 1



# 3. LV onderstations



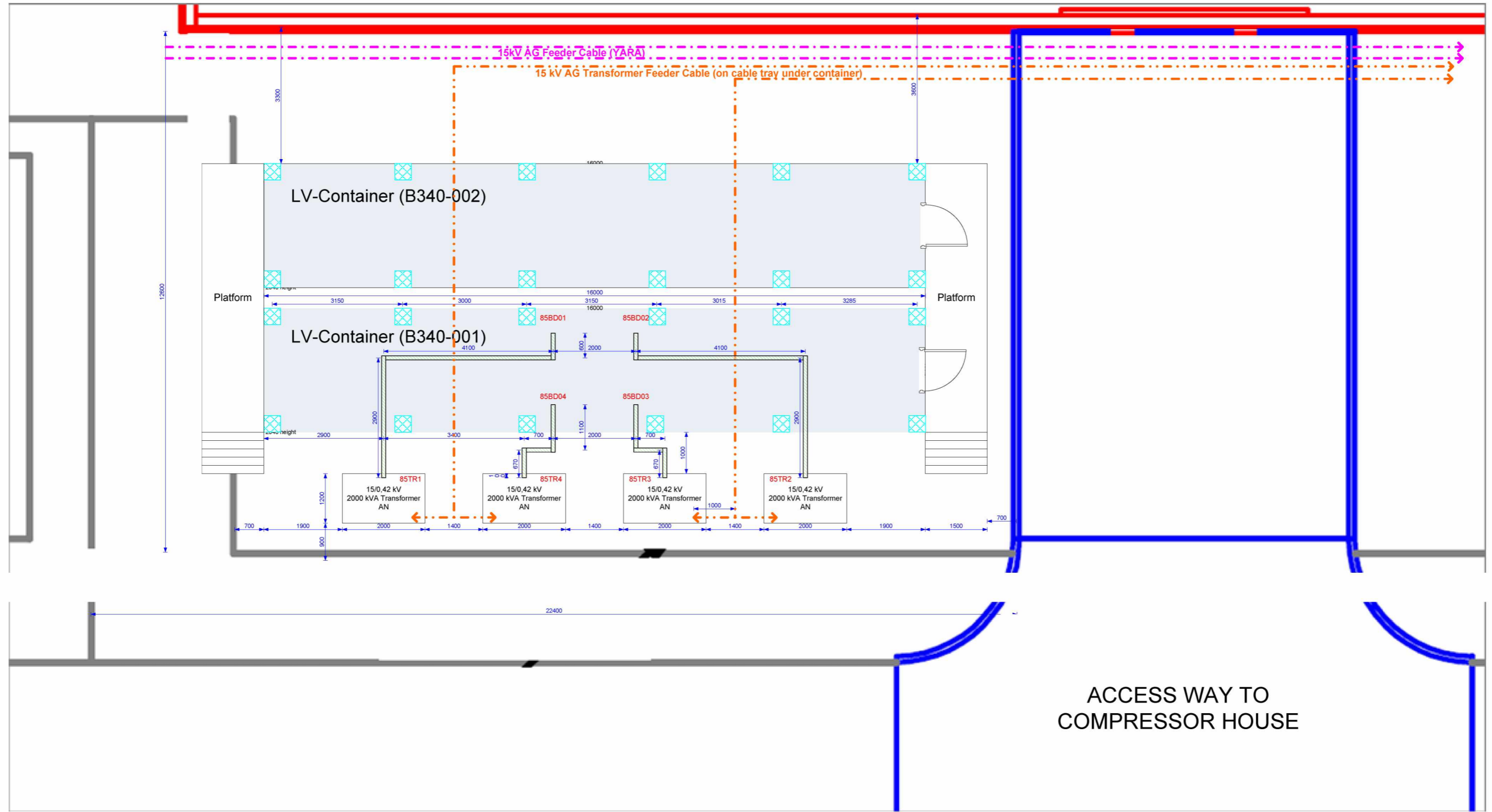
For container details see vendor drawings, for guard rail details see steel structure drawings.

- Legend:**
- grounding connection to external grounding grid
  - socket 230V / light switch
  - lighting fixture 1x36W
  - lighting fixture 2x36W
  - emergency lighting fixture 2x36W battery buffered
  - emergency exit light battery buffered
  - telephone socket
  - floor opening / wall opening
  - Basement Channel / Baseframe Construction
- Notes:**
- ① floor shall be perforated for natural ventilation of transformer (if applicable)
  - ② handrail shall be removeable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removeable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher
  - ⑦ Emergency hand lamp, battery buffered with wall holder

2.0	16.09.2022	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	Issued for use
1.0	15.10.2021	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	Issued for use
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION	
PLANT DESCRIPTION								
<b>Carbon Capture Storage Plant, Sluiskil</b>								
LINDE PROJECT NO. <b>3710 A3T8</b>				CLIENT PROJECT NO. <b>16471</b>				
LINDE PROJECT CODE <b>Sluiskil</b>				CLIENT PROJECT CODE <b>CACTUS</b>				
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TITLE								
<b>General Layout Plan Containerized Substation LV Container B340-001 &amp; B340-002</b>								
SCALE	SIZE	FILE NAME	DOC. NO.	LINDE: &AE-0000-E-ZA 4EM.0701 (EN)	SHEET SHEETS			
1:25	A1	&AE 0000 E-ZA 4EM 0701 (EN) 1647		CLIENT: 16471-E58-00001	REV. 01	2	OF	3



# COMPRESSOR HOUSE



ACCESS WAY TO  
COMPRESSOR HOUSE

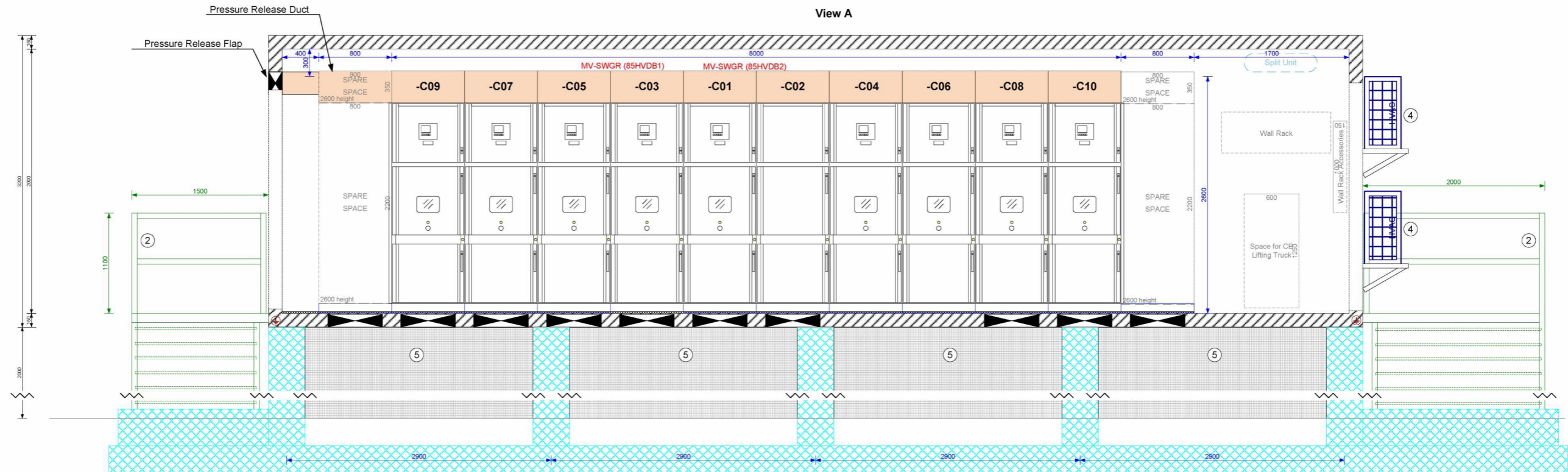
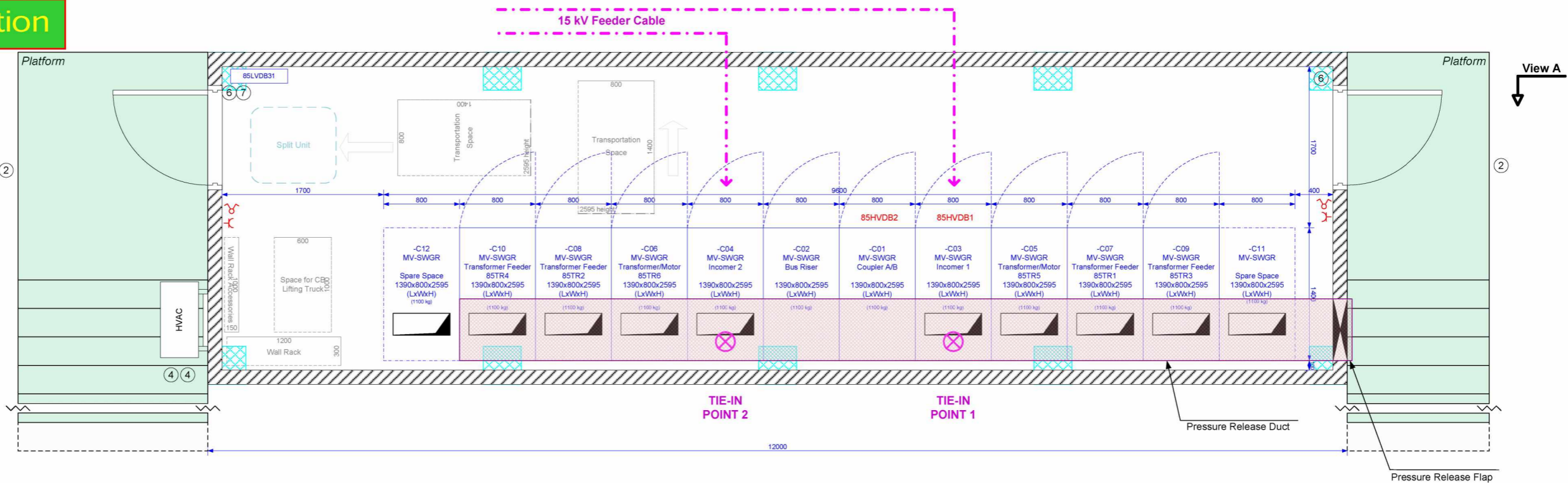
For container details see vendor drawings, for guard rail details see steel structure drawings.

- Legend:**
- grounding connection to external grounding grid
  - socket 230V / light switch
  - lighting fixture 1x36W
  - lighting fixture 2x36W
  - emergency lighting fixture 2x36W battery buffered
  - emergency exit light battery buffered
  - telephone socket
  - floor opening / wall opening
  - Basement Channel / Baseframe Construction

- Notes:**
- 1 floor shall be perforated for natural ventilation of transformer (if applicable)
  - 2 handrail shall be removable and one side shall be forklift accessible
  - 3 door opening depends on forklift accessibility
  - 4 HVAC units shall be redundant and removable for transportation (if necessary)
  - 5 Protection Cover for „Cable Cellar“
  - 6 Wall mounted Fire Extinguisher
  - 7 Emergency hand lamp, battery buffered with wall holder

2.0	16.09.2022						Issued for use
1.0	15.10.2021						Issued for use
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
PLANT DESCRIPTION							
<b>Carbon Capture Storage Plant, Sluiskil</b>							
LINDE PROJECT NO. <b>3710 A3T8</b>		A1/1:50		CLIENT PROJECT NO. <b>16471</b>			
LINDE PROJECT CODE <b>Sluiskil</b>		CLIENT PROJECT CODE <b>CACTUS</b>					
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TITLE							
<b>General Layout Plan Containerized Substation Overall Allocation LV-Containerized Substation</b>							
SCALE <b>1:25</b>	SIZE <b>A1</b>	FILE NAME BAE.0000.E-ZA.4EM.0701 (EN).ind	DOC. NO.	LINDE: <b>&amp;AE-0000-E-ZA 4EM.0701 (EN)</b>			SHEET SHEETS <b>3 OF 3</b>
				CLIENT: <b>16471-E58-00001</b>		REV. <b>01</b>	



# 4. HV onderstation






- For container details see vendor drawings, for guard rail details see steel structure drawings.
- Legend:**
- ⊕ grounding connection to external grounding grid
  - ⊕ socket 230V / light switch
  - ☹ lighting fixture 1x36W
  - ☹ lighting fixture 2x36W
  - ☹ emergency lighting fixture 2x36W battery buffered
  - ☹ emergency exit light battery buffered
  - ☹ telephone socket
  - ☹ floor opening / wall opening
  - ⊔ Basement Channel / Baseframe Construction
- Notes:**
- ① floor shall be perforated for natural ventilation of transformer (if applicable)
  - ② handrail shall be removable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher
  - ⑦ Emergency hand lamp, battery buffered with wall holder

2.0	16.09.2022						Issued for use
1.0	15.10.2021						Issued for use
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
PLANT DESCRIPTION							
<b>Carbon Capture Storage Plant, Sluiskil</b>							
LINDE PROJECT NO. <b>3710 A3T8</b>				CLIENT PROJECT NO. <b>16471</b>			
LINDE PROJECT CODE <b>Sluiskil</b>				CLIENT PROJECT CODE <b>CACTUS</b>			
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TITLE							
<b>General Layout Plan Containerized Substation MV Container B341</b>							
SCALE	SIZE	FILE NAME	DOC. NO.	LINDE:	&AE-0000-E-ZA 4EM.0701 (EN)		SHEET SHEETS
1:25	A1	BAE 0000 E-ZA 4EM 0701 (EN).iss		CLIENT:	16471-E58-00001	REV. 01	1 OF 3

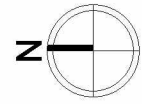


			
Plant Description <b>Carbon Capture Storage Plant, Sluiskil</b>			
Linde Project No. <b>3710 A3T8</b>		Client Project No. <b>16471</b>	
Linde Project Code <b>Sluiskil</b>		Client Project Code <b>CACTUS</b>	
Linde Doc. No. <b>&amp;AE-2000-J-ZA 4EM.0401 (EN)</b>		Client Doc. No. <b>16471- I58-00001</b>	Client Revision <b>00</b>

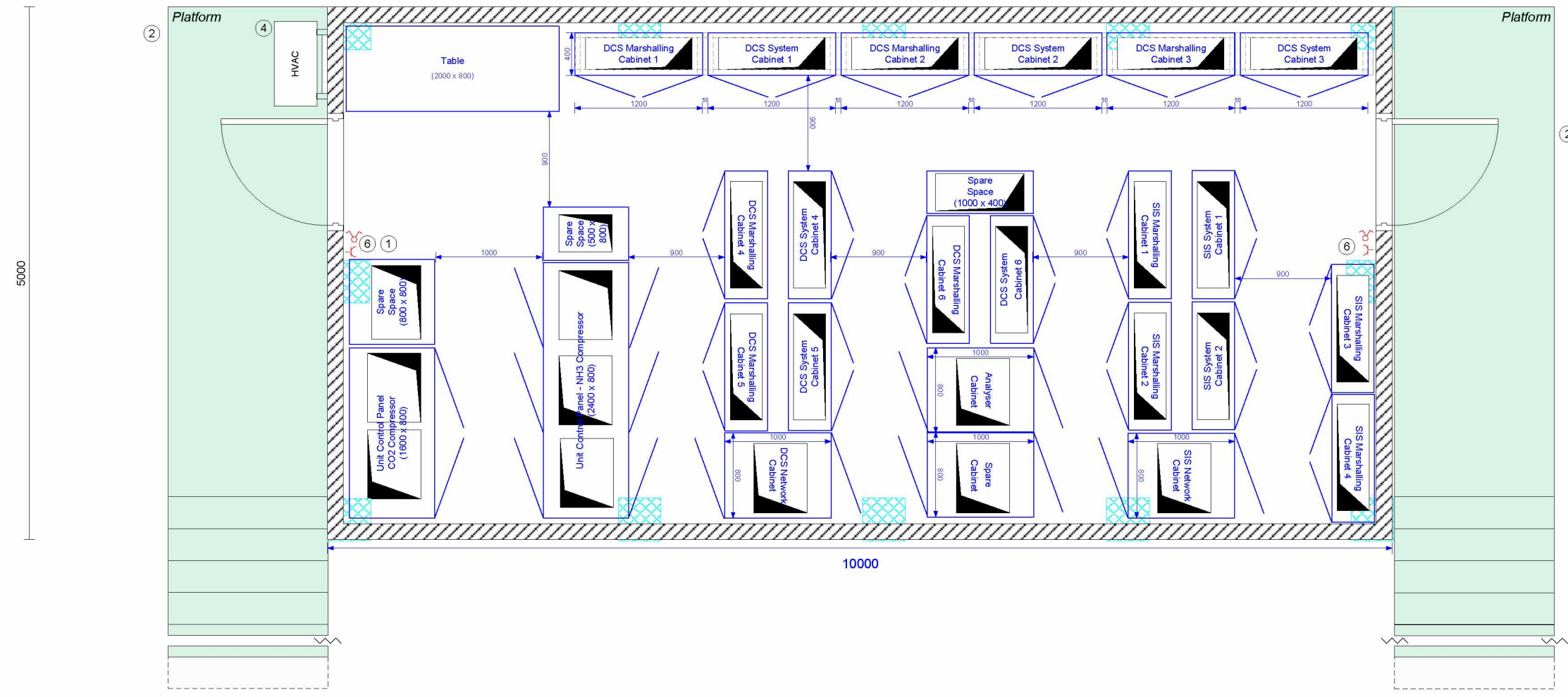
**General Layout Plan  
Containerized  
Local Instrument Room  
B342**

IFD	1.0	13.10.2022	 2E	 2E	 2E	-
<b>Status</b>	<b>Issue</b>	<b>Date</b>	<b>Prepared</b>	<b>Reviewed</b>	<b>Approved</b>	<b>Remarks</b>

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Top View



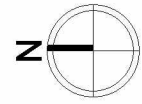
For container details see vendor drawings, for guard rail details see steel structure drawings.

- Legend:**
- grounding connection to external grounding grid
  - socket 230V / light switch
  - lighting fixture 1x36W
  - lighting fixture 2x36W
  - emergency lighting fixture 2x36W battery buffered
  - emergency exit light battery buffered
  - telephone socket
  - floor opening / wall opening
  - Basement Channel / Baseframe Construction

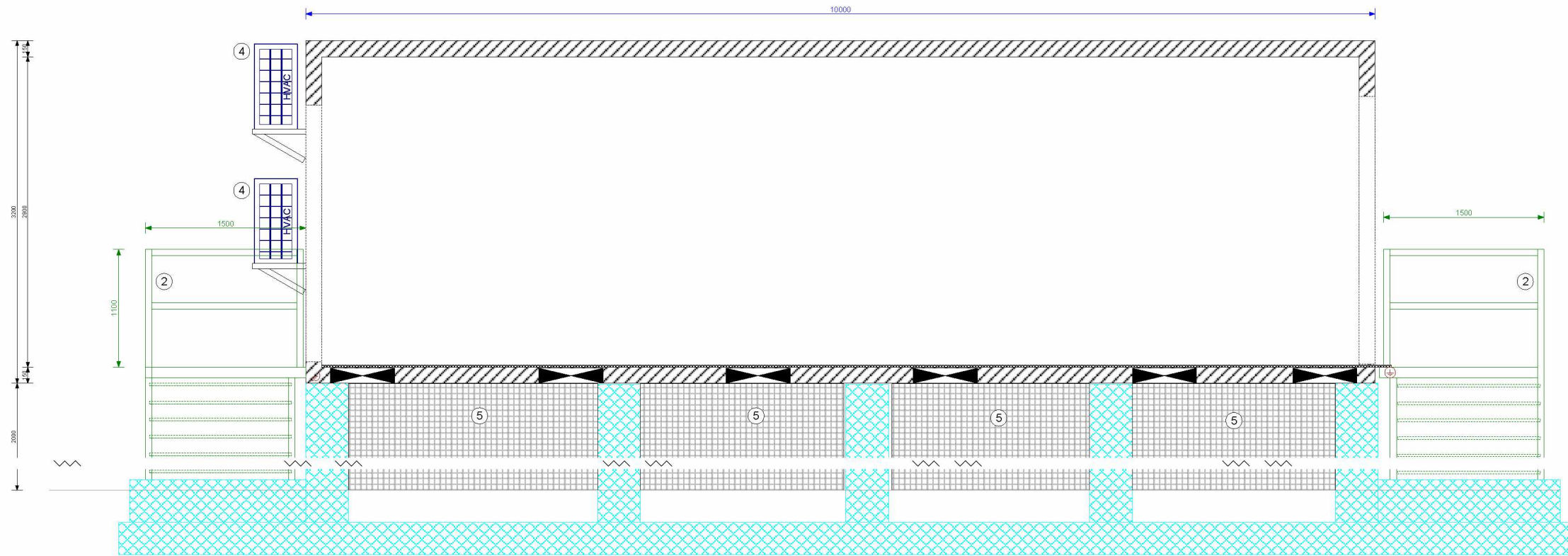
- Notes:**
- ① Emergency hand lamp, battery buffered with wall holder
  - ② handrail shall be removeable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removeable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher

1.0	13.10.2022	24E	24E	Doherr	24E	24E	Issued for design
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
PLANT DESCRIPTION							
<b>Carbon Capture Storage Plant, Sluiskil</b>							
LINDE PROJECT NO. <b>3710 A3T8</b>				CLIENT PROJECT NO. <b>16471</b>			
LINDE PROJECT CODE <b>Sluiskil</b>				CLIENT PROJECT CODE <b>CACTUS</b>			
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TITLE <b>General Layout Plan Containerized Local Instrument Room LIR B342 (Top View)</b>							
SCALE	SIZE	FILE NAME	DOC. NO.	LINDE: &AE-2000-J-ZA 4EM.0401 (EN)	SHEET SHEETS		
1:25	A1	&AE 2000-J-ZA 4EM 0401 (E)0 yss	CLIENT: 16471-158-00001	REV. 01	2	OF	3





### Side View



For container details see vendor drawings, for guard rail details see steel structure drawings.

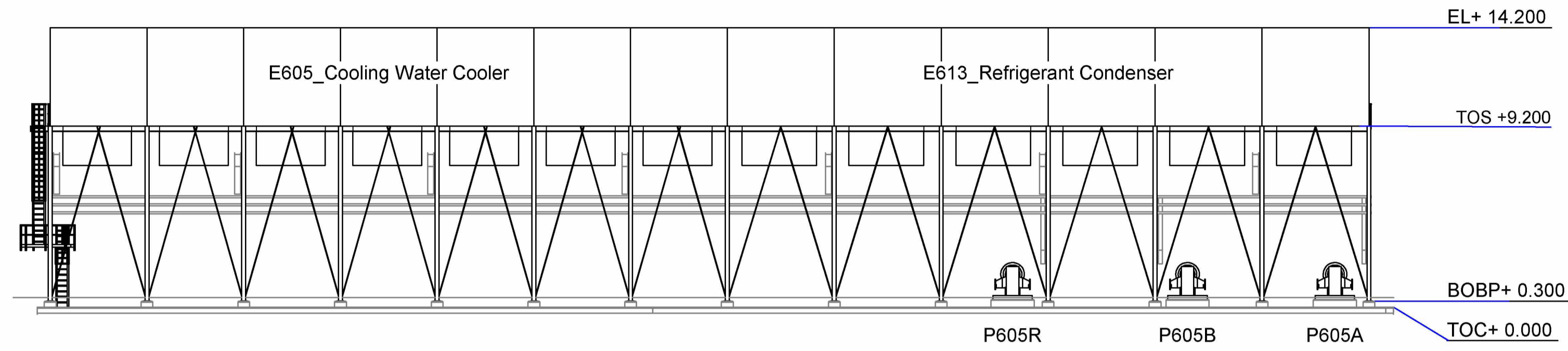
- Legend:**
- grounding connection to external grounding grid
  - socket 230V / light switch
  - lighting fixture 1x36W
  - lighting fixture 2x36W
  - emergency lighting fixture 2x36W battery buffered
  - emergency exit light battery buffered
  - telephone socket
  - floor opening / wall opening
  - Basement Channel / Baseframe Construction

- Notes:**
- ① Emergency hand lamp, battery buffered with wall holder
  - ② handrail shall be removeable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removeable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher

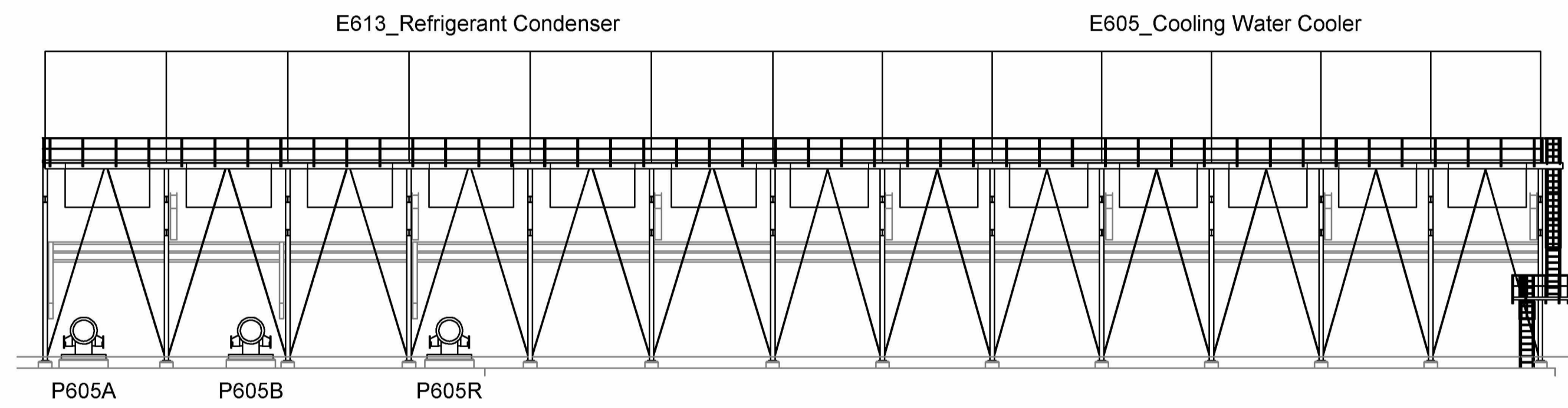
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION	
1.0	13.10.2022	DR	DR	DR	DR	DR	Issued for design	
PLANT DESCRIPTION								
<b>Carbon Capture Storage Plant, Sluiskil</b>								
LINDE PROJECT NO. <b>3710 A3T8</b>				CLIENT PROJECT NO. <b>16471</b>				
LINDE PROJECT CODE <b>Sluiskil</b>				CLIENT PROJECT CODE <b>CACTUS</b>				
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TITLE <b>General Layout Plan Containerized Local Instrument Room LIR B342 (Side View)</b>								
SCALE	SIZE	FILE NAME	LINDE: &AE-2000-J-ZA 4EM.0401 (EN)				SHEET	SHEETS
1:25	A1	&AE 2000-J-ZA 4EM 0401 (E)0 V08	DOC. NO.	CLIENT: 16471-158-00001			3	OF 3
							REV. 01	

6. Luchtkoelers

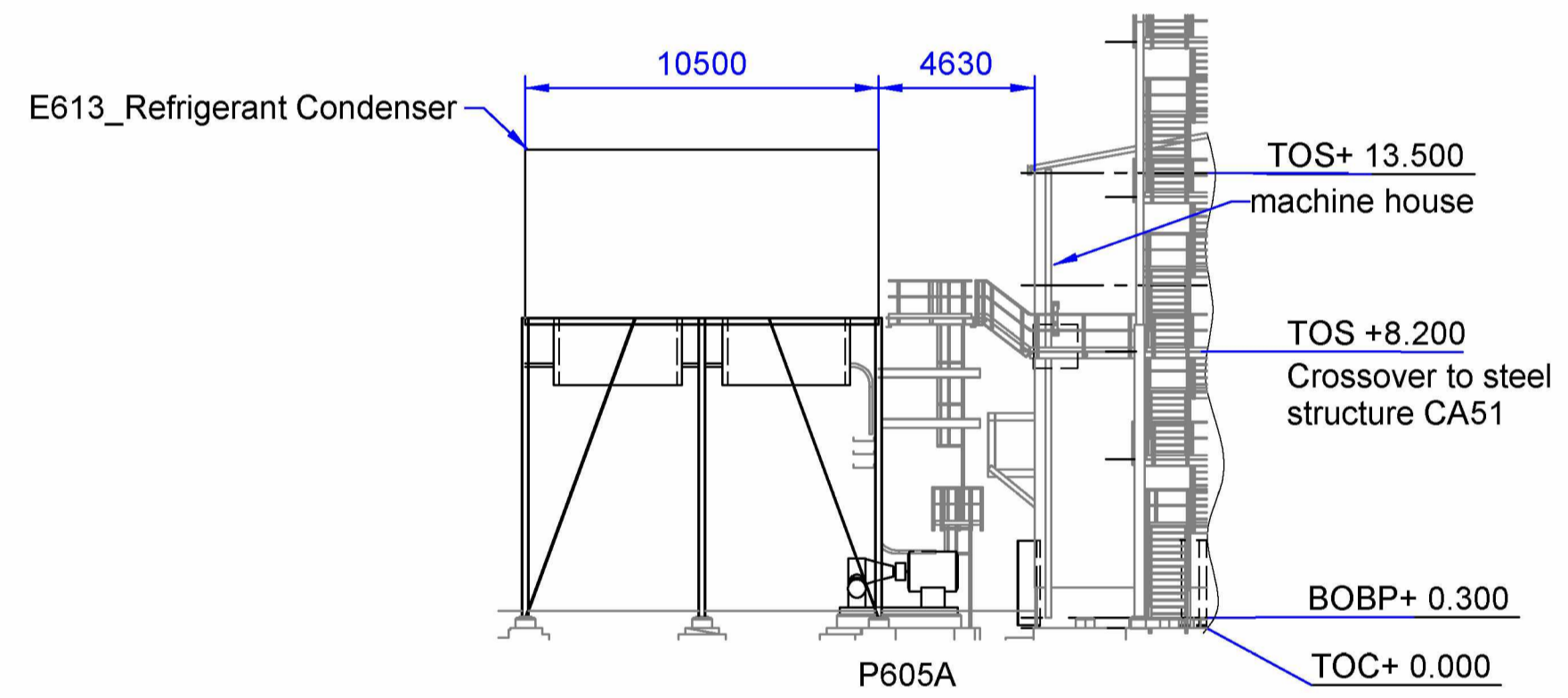
Looking South



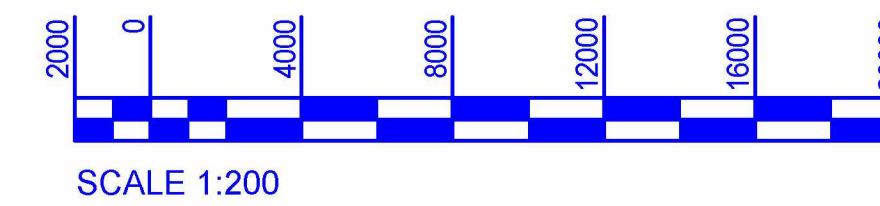
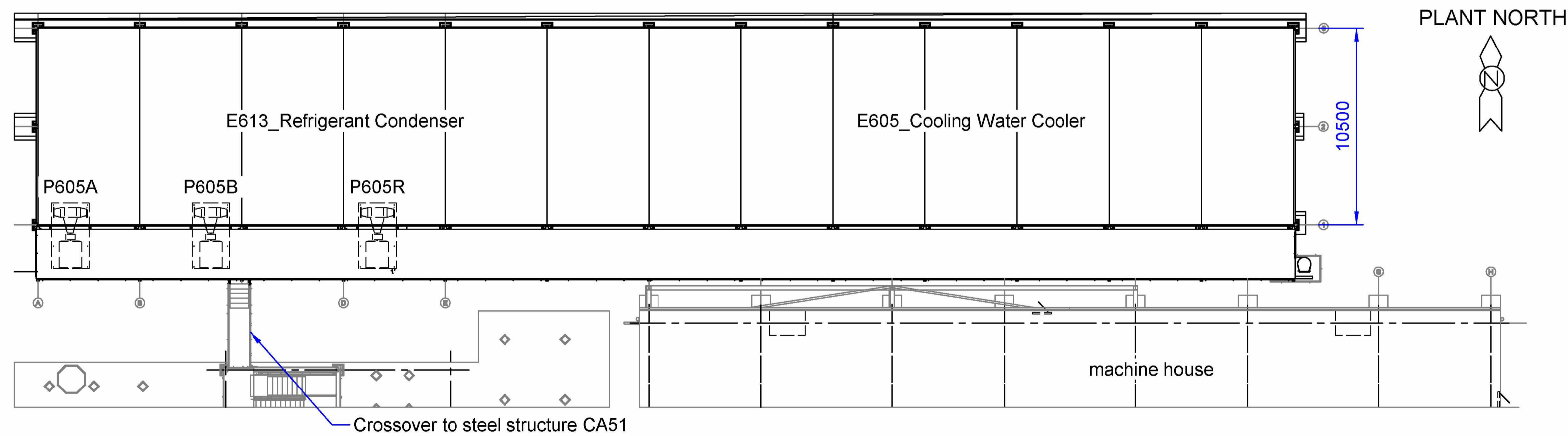
Looking North



Looking East



top view



0.1	01.08.2023						
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
PLANT DESCRIPTION							
Carbon Capture Storage Plant, Sluiskil							
LINDE PROJECT NO. 3710A3T8				CLIENT PROJECT NO. 18471			
LINDE PROJECT CODE Sluiskil				CLIENT PROJECT CODE CACTUS			
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TITLE							
Equipment Arrangement Drawing Cooling Water Unit							
SCALE	SIZE	LINDE DOC. NO. Cooling Water Unit				SHEET	SHEETS
1:200	A1	YARA DOC. NO.				REV 01	1 OF 1

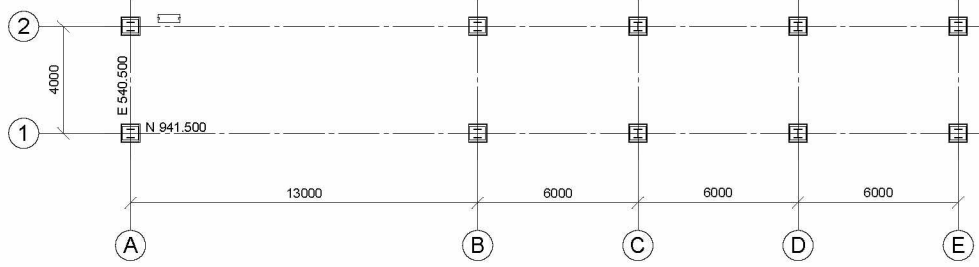


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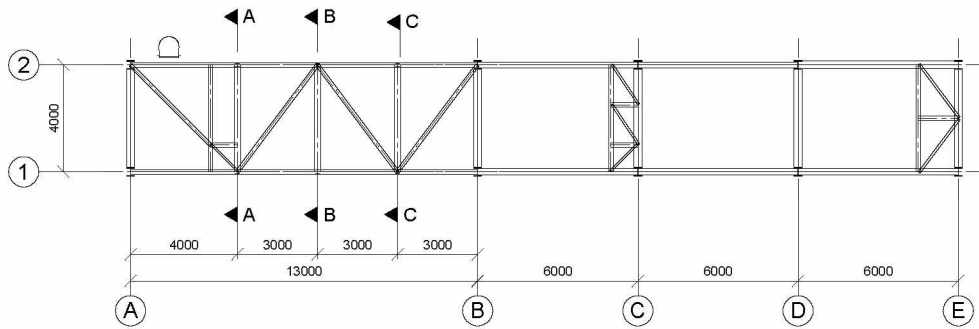
PLANT NORTH

**PLAN AT EL+0.300 BOBP**

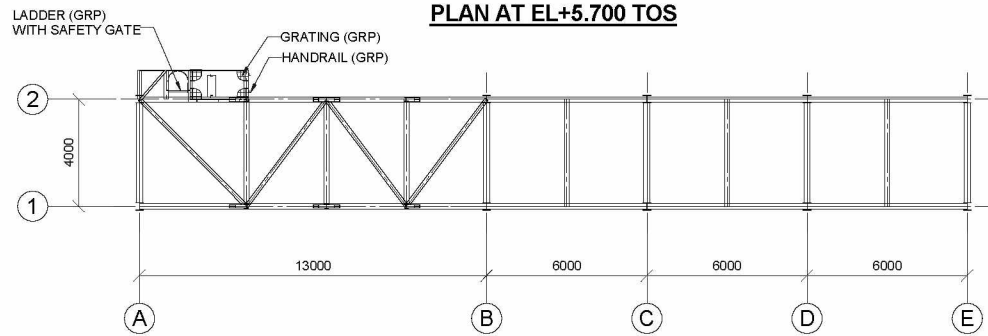


**PLAN AT EL+3.200 TOS**

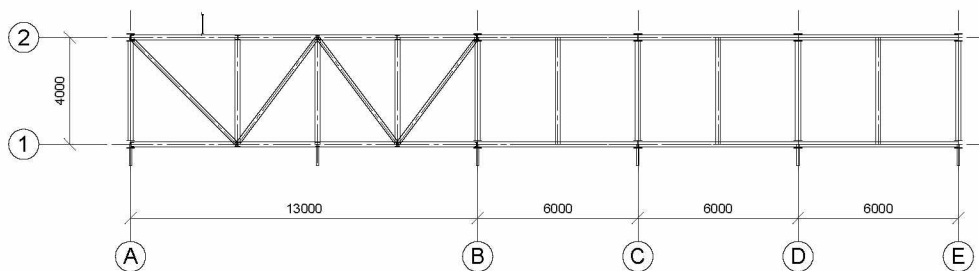
FOR SECTION A-A, B-B & C-C REFER DWG NO. &AE 2001 N-ZD 1002 (EN)



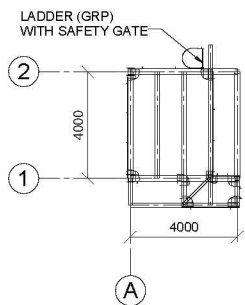
**PLAN AT EL+5.700 TOS**



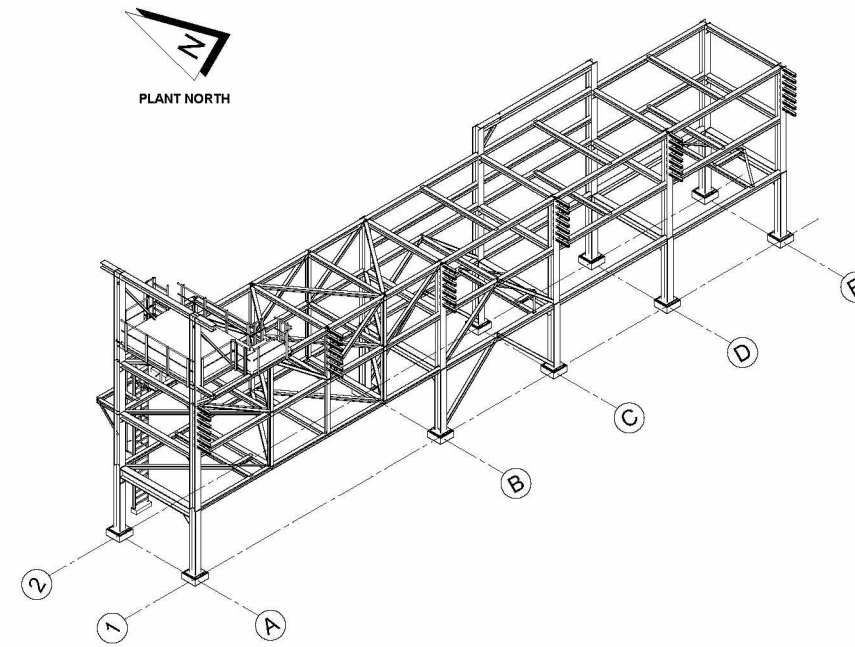
**PLAN AT EL+8.000 TOS**



**PLAN AT EL+8.900 TOS**



**ISOMETRIC VIEW**



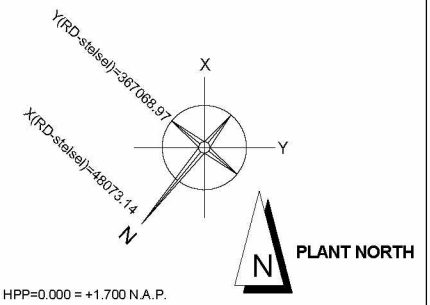
- NOTES:**
1. ALL DIMENSION ARE IN MM. LEVELS & CO-ORDINATES ARE IN METER.
  2. ALL ELEVATIONS ARE TOP OF STEEL UNLESS NOTED OTHERWISE.
  3. THIS IS A FEED DOCUMENT AND NO CONSTRUCTION SHALL BE MADE BASED ON THIS DRAWING.
  4. ALL LAYOUT, CO-ORDINATES AND DIMENSIONS ARE INDICATIVE AND SHALL BE CONFIRMED DURING DETAIL ENGINEERING.

**REFERENCES**

LINDE DOC. NO / OWNER DOC. NO.	TITLE
&AE 2001 N-ZD 1002 (EN) / 16471-Y56-00012	STEEL STRUCTURE LAYOUT DRAWING PIPERACK SR0501 ELEVATIONS
&AE 2001 C-ZA 1001 (EN) / 16471-Y56-00007	GENERAL ARRANGEMENT DRAWING FOUNDATION / PILING CO2 LIQUIFICATION
&AE 0000 N-SP 1001 (EN) / 16471-Y85-00001	STEEL STRUCTURE AND CIVIL DESIGN BASIS & GENERAL DESCRIPTION

**LEGENDS**

- TOS TOP OF STEEL
- BOBP BOTTOM OF BASE PLATE
- HPP HIGH PAVING POINT
- N.A.P NORMAAL AMSTERDAMS PEIL
- MOMENT CONNECTION



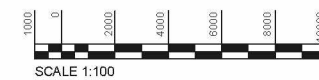
DATE	STATUS	DESIGNER	CHECKER	APPROVED	REVISION	DESCRIPTION
1.0	18-11-2022	YIP	SPR	SPR		ISSUED FOR FEED

Carbon Capture Storage Plant, Sluiskil

<b>Linde</b>	<b>UUT</b>
CLIENT PROJECT NO: 3710208	CLIENT PROJECT NO: 10071
CLIENT PROJECT CODE: C0088	CLIENT PROJECT CODE: CACTUS

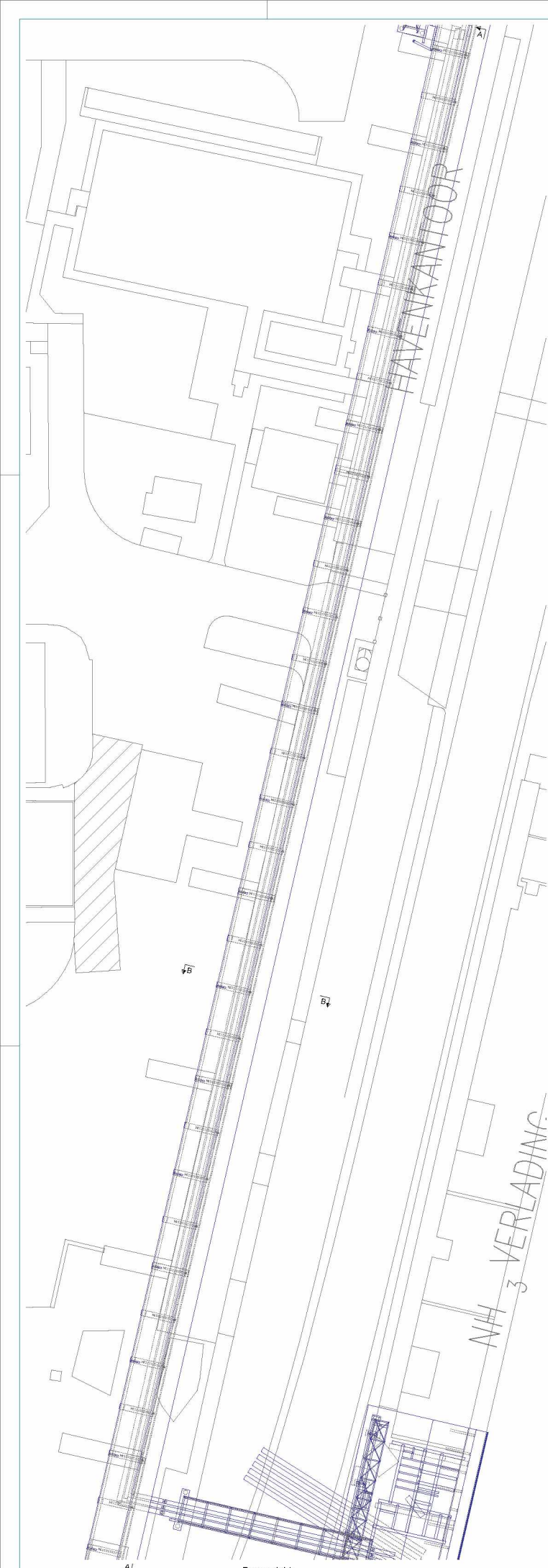
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TITLE: STEEL STRUCTURE LAYOUT DRAWING PIPERACK SR0501 ISOMETRIC VIEW & LEVEL VIEWS	SCALE: 1:100	DATE: 18-11-2022	DESIGNER: YIP	CHECKER: SPR	APPROVED: SPR	REVISION: 1.0	SHEET: 1	TOTAL SHEETS: 1
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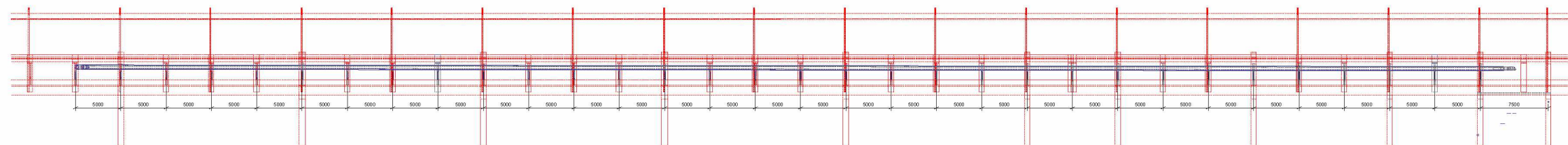




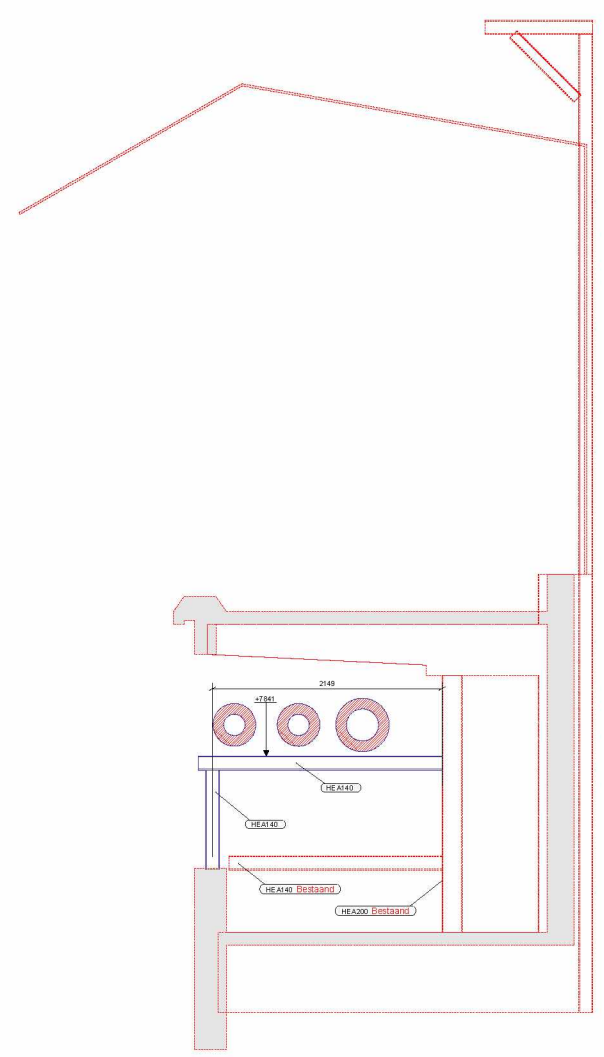




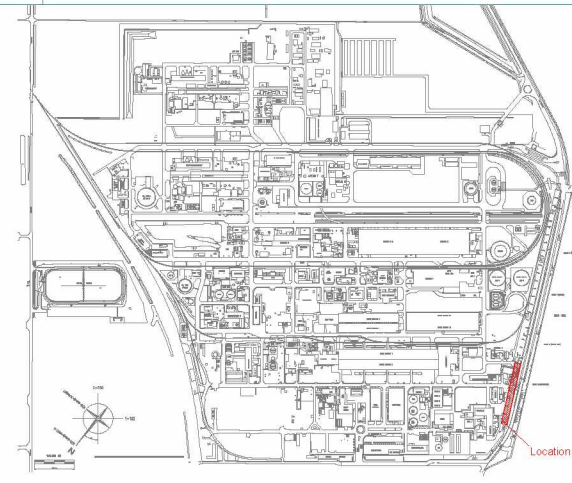
Bovenzicht  
SCHAAL 1:200



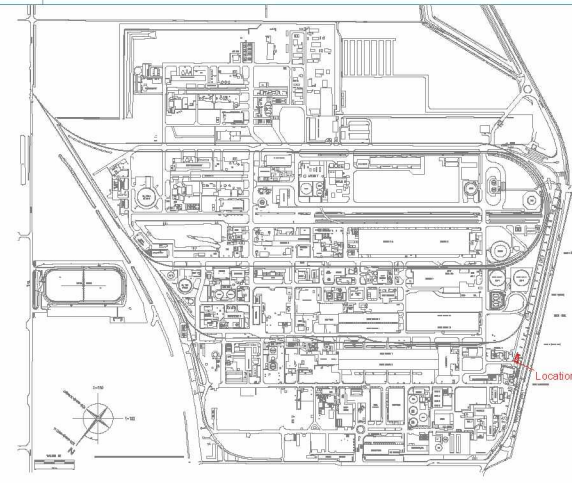
DRS A - A  
SCHAAL 1:200



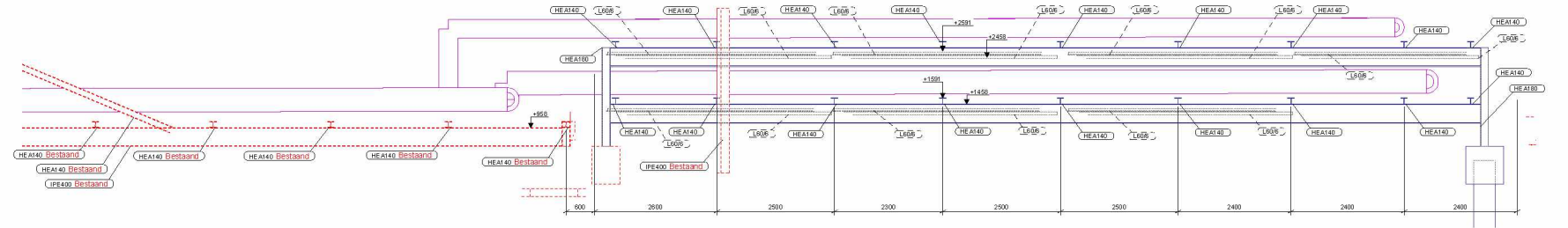
DRS B - B (PRINCIPE DOORSNEDE)  
SCHAAL 1:25



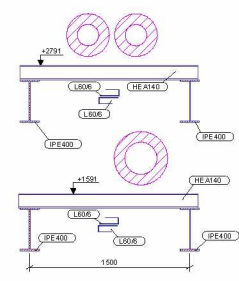
GENERAL STEEL			
<b>STEEL</b> Component steel: EN 10025-3 + S4 Structural steel: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4		<b>ADDITIONAL YARA SPECIFICATIONS</b> Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4	
<b>STEEL GRADES</b> Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4		<b>WELDING DIMENSIONS</b> Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4	
<b>EXECUTION CLASS Main steel</b> Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4		<b>EXECUTION CLASS Secondary steel</b> Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4 Steel reinforcement: EN 10025-3 + S4	
<b>REVISIONS</b> Rev. Drawn Check Appr. Date Description 1 2022 15.12.2022 Voor ontwerpvergunning		<b>LOGO'S</b> konstruktis industrial engineering YARA SLUISKIL PIPERACKS CCS PROJECT SUPPORTS KADE GALLERY ZONE 3 YARA Yara Technology and Projects	
<b>PROJECTINFORMATIE</b> 4922005 A0		<b>PROJECTINFORMATIE</b> 15.12.2022 11.25 1.200 This document shall not be reproduced, lent or otherwise disposed of, without YTP written approval No TO_301	



Bovenzicht  
SCHAAL 1:50



DRS A - A  
SCHAAL 1:50



DRS B - B (PRINCIPE DOORSNEDE)  
SCHAAL 1:25

GENERAL STEEL		ADDITIONAL YARA SPECIFICATIONS	
<b>STEEL</b>	<ul style="list-style-type: none"> <li>Construction steel: EN 10025-3 S275</li> <li>Structural steel: EN 10025-2 S275</li> <li>Welding steel: EN 10025-2 S275</li> <li>Construction steel: EN 10025-3 S355</li> <li>Structural steel: EN 10025-2 S355</li> <li>Welding steel: EN 10025-2 S355</li> <li>Construction steel: EN 10025-3 S460</li> <li>Structural steel: EN 10025-2 S460</li> <li>Welding steel: EN 10025-2 S460</li> </ul>	<ul style="list-style-type: none"> <li>Steel: EN 10025-3 S275</li> <li>Steel: EN 10025-2 S275</li> <li>Steel: EN 10025-2 S355</li> <li>Steel: EN 10025-3 S355</li> <li>Steel: EN 10025-2 S460</li> <li>Steel: EN 10025-3 S460</li> <li>Steel: EN 10025-2 S550</li> <li>Steel: EN 10025-3 S550</li> </ul>	
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>EN 10025-3 S275</li> <li>EN 10025-2 S275</li> <li>EN 10025-2 S355</li> <li>EN 10025-3 S355</li> <li>EN 10025-2 S460</li> <li>EN 10025-3 S460</li> <li>EN 10025-2 S550</li> <li>EN 10025-3 S550</li> </ul>	<b>BOLTS</b>	<ul style="list-style-type: none"> <li>EN 10025-3 S275</li> <li>EN 10025-2 S275</li> <li>EN 10025-2 S355</li> <li>EN 10025-3 S355</li> <li>EN 10025-2 S460</li> <li>EN 10025-3 S460</li> <li>EN 10025-2 S550</li> <li>EN 10025-3 S550</li> </ul>
<b>EXECUTION CLASS Main Steel</b>	EN 1090-1	<b>ANCHORS</b>	EN 1090-1
<b>EXECUTION CLASS Secondary steel</b>	EN 1090-2	<b>WELDING DIMENSIONS</b>	EN 10025-2
<b>REMARKS</b>	PREPARATION DEGREE: P2 FIRE RESISTANCE: R120 CLIMATE CLASS: C4 GROUING MORTAR: EN 12618 PRESERVATION: EN 1090-1		

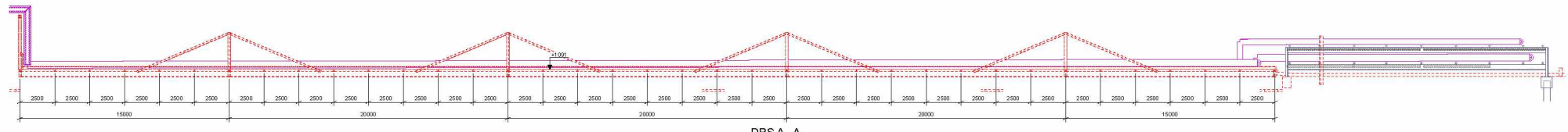
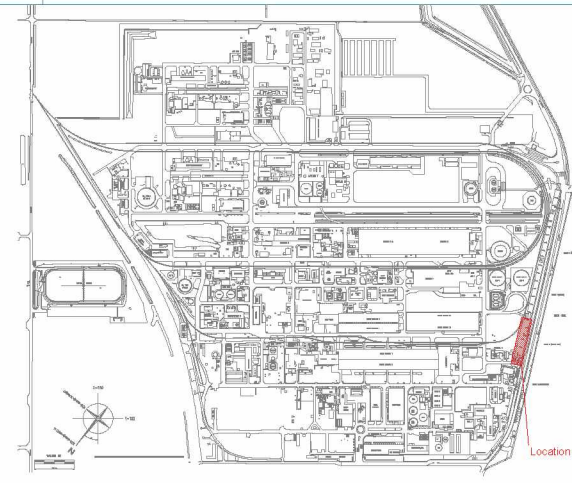
YARA SLUISKIL  
 PIPERACKS CCS PROJECT  
 UITBREIDING PIPERACK  
 ZONE 4

15-12-2022  
 1:25  
 2E  
 TO\_401

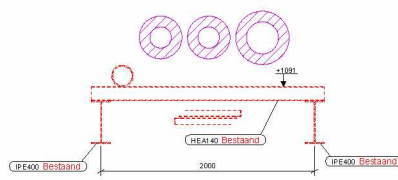




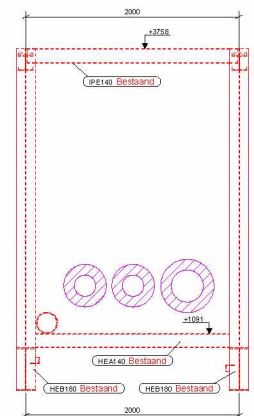
Bovenzicht  
SCHAAL 1:150



DRS A - A  
SCHAAL 1:150



DRS B - B (PRINCIPE DOORSNEDE)  
SCHAAL 1:25



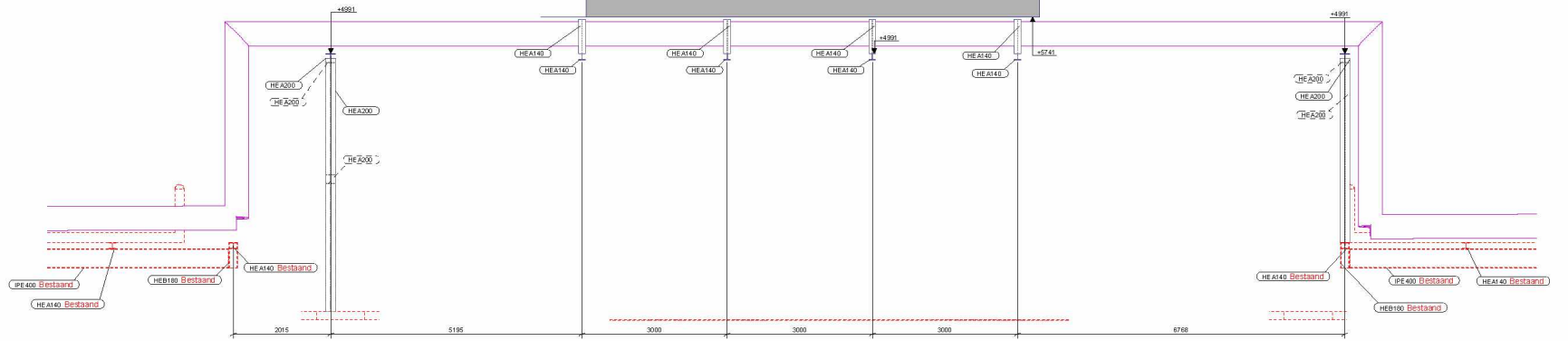
DRS C - C (PRINCIPE DOORSNEDE)  
SCHAAL 1:25

GENERAL STEEL					
<b>STEEL</b>	<ul style="list-style-type: none"> <li>Structural steel: EN 10025-2 S275</li> <li>Stainless steel: EN 10088-2 A4-2B</li> <li>Aluminum: EN 573-3 6060-T6</li> <li>Galvanized steel: EN 10346 S275GD</li> <li>Coil steel: EN 10130 S275</li> <li>Steel pipe: EN 10217-2 R40</li> <li>Steel plate: EN 10025-2 S275</li> <li>Steel reinforcement: EN 10080 A4-2B</li> <li>Steel mesh: EN 10210-2 R40</li> </ul>	<b>ADDITIONAL YARA SPECIFICATIONS</b> <ul style="list-style-type: none"> <li>EN 10025-2 S275</li> <li>EN 10088-2 A4-2B</li> <li>EN 573-3 6060-T6</li> <li>EN 10346 S275GD</li> <li>EN 10130 S275</li> <li>EN 10217-2 R40</li> <li>EN 10025-2 S275</li> <li>EN 10080 A4-2B</li> <li>EN 10210-2 R40</li> </ul>	<b>WELDING DIMENSIONS</b> <ul style="list-style-type: none"> <li>Welding: EN 10163</li> <li>Welding: EN 10163</li> <li>Welding: EN 10163</li> <li>Welding: EN 10163</li> </ul>		
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>Structural steel: S275</li> <li>Stainless steel: A4-2B</li> <li>Aluminum: 6060-T6</li> <li>Galvanized steel: S275GD</li> <li>Coil steel: S275</li> <li>Steel pipe: R40</li> <li>Steel plate: S275</li> <li>Steel reinforcement: A4-2B</li> <li>Steel mesh: R40</li> </ul>	<b>BOLTS</b> <ul style="list-style-type: none"> <li>Structural steel: A4-2B</li> <li>Stainless steel: A4-2B</li> <li>Aluminum: 6060-T6</li> <li>Galvanized steel: S275GD</li> <li>Coil steel: S275</li> <li>Steel pipe: R40</li> <li>Steel plate: S275</li> <li>Steel reinforcement: A4-2B</li> <li>Steel mesh: R40</li> </ul>	<b>FIRE RESISTANCE</b> <ul style="list-style-type: none"> <li>Structural steel: EN 13381-2 R15</li> <li>Stainless steel: EN 13381-2 R15</li> <li>Aluminum: EN 13381-2 R15</li> <li>Galvanized steel: EN 13381-2 R15</li> <li>Coil steel: EN 13381-2 R15</li> <li>Steel pipe: EN 13381-2 R15</li> <li>Steel plate: EN 13381-2 R15</li> <li>Steel reinforcement: EN 13381-2 R15</li> <li>Steel mesh: EN 13381-2 R15</li> </ul>	<b>CLIMATE CLASS</b> <ul style="list-style-type: none"> <li>Structural steel: EN 1090-2 C4</li> <li>Stainless steel: EN 1090-2 C4</li> <li>Aluminum: EN 1090-2 C4</li> <li>Galvanized steel: EN 1090-2 C4</li> <li>Coil steel: EN 1090-2 C4</li> <li>Steel pipe: EN 1090-2 C4</li> <li>Steel plate: EN 1090-2 C4</li> <li>Steel reinforcement: EN 1090-2 C4</li> <li>Steel mesh: EN 1090-2 C4</li> </ul>	
<b>EXECUTION CLASS Main steel</b>	EN 1090-2 C4	<b>ANCHORS</b>	EN 1090-2 C4	<b>FIRE RESISTANCE</b>	EN 13381-2 R15
<b>EXECUTION CLASS Secondary steel</b>	EN 1090-2 C4	<b>ANCHORS</b>	EN 1090-2 C4	<b>FIRE RESISTANCE</b>	EN 13381-2 R15
<b>EXECUTION CLASS Main steel</b>	EN 1090-2 C4	<b>ANCHORS</b>	EN 1090-2 C4	<b>FIRE RESISTANCE</b>	EN 13381-2 R15
<b>EXECUTION CLASS Secondary steel</b>	EN 1090-2 C4	<b>ANCHORS</b>	EN 1090-2 C4	<b>FIRE RESISTANCE</b>	EN 13381-2 R15

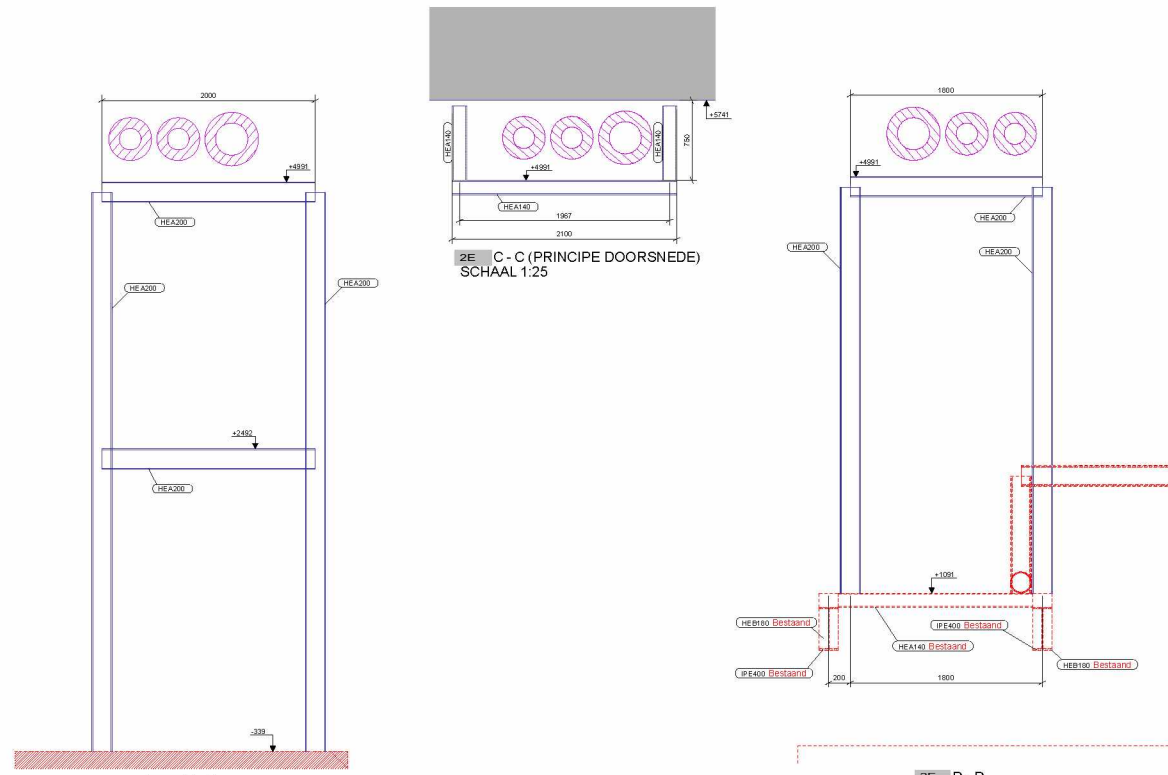
<b>konstruktis</b> Industrial engineering	<b>YARA SLUISKIL</b> PIPERACKS CCS PROJECT BESTAAND PIPERACK ZONE 5	
4922005 A0	15.12.2022 11:25 1:150 This document shall not be reproduced, lent or otherwise disposed of, without YTP written approval	TO_501



Bovenzicht  
SCHAAL 1:50



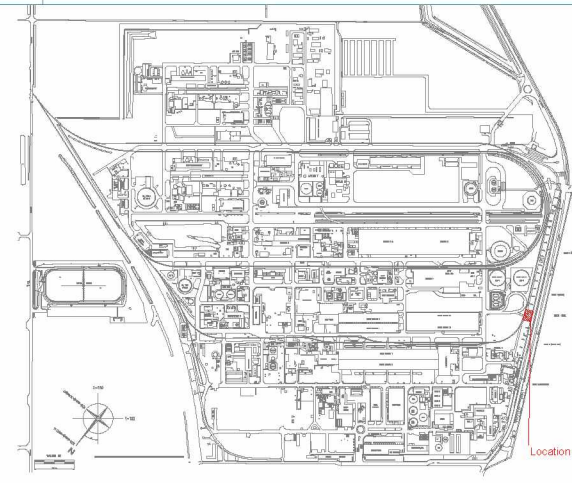
DRSA - A  
SCHAAL 1:50



2E B - B  
SCHAAL 1:25

2E C - C (PRINCIPALE DOORSNEDE)  
SCHAAL 1:25

2E D - D  
SCHAAL 1:25



GENERAL STEEL			
<b>STEEL</b>	<ul style="list-style-type: none"> <li>Component steel: S235JR + A/N</li> <li>Special steel: S235JR + A/N / S275JR + A/N / S355JR + A/N / S460NL + A/N</li> <li>Welding steel: S235JR + A/N / S275JR + A/N</li> <li>Construction steel: S235JR + A/N</li> <li>Anchor steel: S235JR + A/N / S275JR + A/N / S355JR + A/N</li> <li>Structural steel: S235JR + A/N / S275JR + A/N / S355JR + A/N</li> <li>Formwork steel: S235JR + A/N / S275JR + A/N / S355JR + A/N</li> </ul>	<ul style="list-style-type: none"> <li>Additional YARA specifications: S235JR + A/N</li> <li>Additional YARA specifications: S275JR + A/N</li> <li>Additional YARA specifications: S355JR + A/N</li> <li>Additional YARA specifications: S460NL + A/N</li> </ul>	
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>S235JR + A/N</li> <li>S275JR + A/N</li> <li>S355JR + A/N</li> <li>S460NL + A/N</li> </ul>	<b>BOLTS</b>	<ul style="list-style-type: none"> <li>A4-70</li> <li>A4-20</li> <li>A4-10</li> </ul>
<b>EXECUTION CLASS Main steel</b>	EC2	<b>ANCHORS</b>	<ul style="list-style-type: none"> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> </ul>
<b>EXECUTION CLASS Secondary steel</b>	EC2	<b>PRESERVATION</b>	<ul style="list-style-type: none"> <li>PREPARATION DEGREE P2</li> <li>PREPARATION DEGREE P2</li> </ul>
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>S235JR + A/N</li> <li>S275JR + A/N</li> <li>S355JR + A/N</li> <li>S460NL + A/N</li> </ul>	<b>WELDING DIMENSIONS</b>	<ul style="list-style-type: none"> <li>WELDING DIMENSIONS</li> <li>WELDING DIMENSIONS</li> <li>WELDING DIMENSIONS</li> </ul>
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>S235JR + A/N</li> <li>S275JR + A/N</li> <li>S355JR + A/N</li> <li>S460NL + A/N</li> </ul>	<b>ANCHORS</b>	<ul style="list-style-type: none"> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> </ul>
<b>EXECUTION CLASS Main steel</b>	EC2	<b>ANCHORS</b>	<ul style="list-style-type: none"> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> <li>YARA ANCHORS</li> </ul>
<b>EXECUTION CLASS Secondary steel</b>	EC2	<b>PRESERVATION</b>	<ul style="list-style-type: none"> <li>PREPARATION DEGREE P2</li> <li>PREPARATION DEGREE P2</li> </ul>

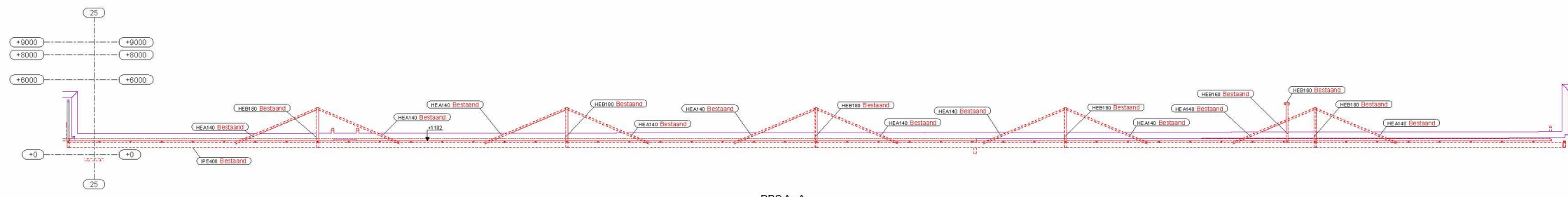
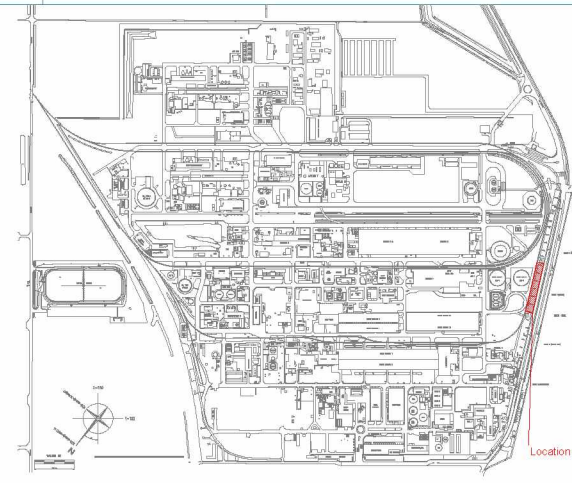
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<p>15.12.2022</p> <p>15.12.2022</p> <p>15.12.2022</p>	<p>15.12.2022</p> <p>15.12.2022</p> <p>15.12.2022</p>	<p>15.12.2022</p> <p>15.12.2022</p> <p>15.12.2022</p>	<p>15.12.2022</p> <p>15.12.2022</p> <p>15.12.2022</p>

**konstruktiv** industrial engineering  
**YARA SLUISKIL**  
 HANGERS PIPERACK TVP TOREN N  
 ZONE 6  
 YARA Technology and Projects  
 4922005  
 15.12.2022 11:25 1:50 2E  
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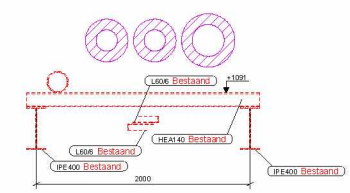




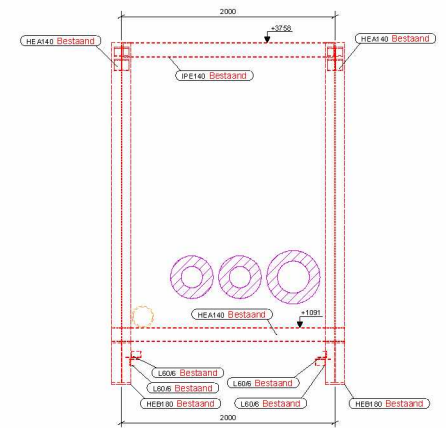
Bovenzicht  
SCHAAL 1:150



DRS A - A  
SCHAAL 1:150



DRS B - B (PRINCIPALE DOORSNEDE)  
SCHAAL 1:25



DRS C - C (PRINCIPALE DOORSNEDE)  
SCHAAL 1:25

GENERAL STEEL			
<b>STEEL</b> Component spec: EN 10025-1 + A1 Delivery spec: EN 10025-1 + A1 / EN 10025-2 + A1 Corrosion spec: EN 10025-1 + A1 Execution spec: EN 10025-1 + A1 / EN 10025-2 + A1 Surface treatment: EN 10025-1 + A1 / EN 10025-2 + A1 Finish: EN 10025-1 + A1 / EN 10025-2 + A1		<b>ADDITIONAL YARA SPECIFICATIONS</b> Delivery: EN 10025-1 + A1 Corrosion: EN 10025-1 + A1 Execution: EN 10025-1 + A1 / EN 10025-2 + A1 Surface treatment: EN 10025-1 + A1 / EN 10025-2 + A1 Finish: EN 10025-1 + A1 / EN 10025-2 + A1	
<b>STEEL GRADES</b> S235JR S275JR S355JR	<b>BOLTS</b> A4-70 A4-80 A4-100	<b>WELDING DIMENSIONS</b> EN 10025-1 + A1 EN 10025-2 + A1	
<b>EXECUTION CLASS Main steel</b> E32	<b>ANCHORS</b> EN 10025-1 + A1 / EN 10025-2 + A1	<b>FIRE RESISTANCE</b> R15	<b>CLIMATE CLASS</b> C1
<b>EXECUTION CLASS Secondary steel</b> E22	<b>PRESERVATION</b> EN 10025-1 + A1 / EN 10025-2 + A1	<b>ROUTING MORTAR</b> EN 10025-1 + A1 / EN 10025-2 + A1	<b>REMARKS</b> -
<b>PREPARATION DEGREE</b> P2			
<b>REVISIONS</b> Rev. Drawn Check Appr. Date Description			
<b>konstruktis</b> industrial engineering		<b>YARA SLUISKIL</b> PORTALEN CCS PROJECT ZONE 7	
<b>PROJECT NO</b> 4922005		<b>DATE</b> 15-12-2022	
<b>SCALE</b> A0		<b>THIS DOCUMENT SHALL NOT BE REPRODUCED, LENT OR OTHERWISE DISPOSED OF, WITHOUT YTP WRITTEN APPROVAL</b>	



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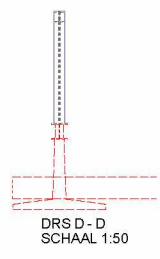
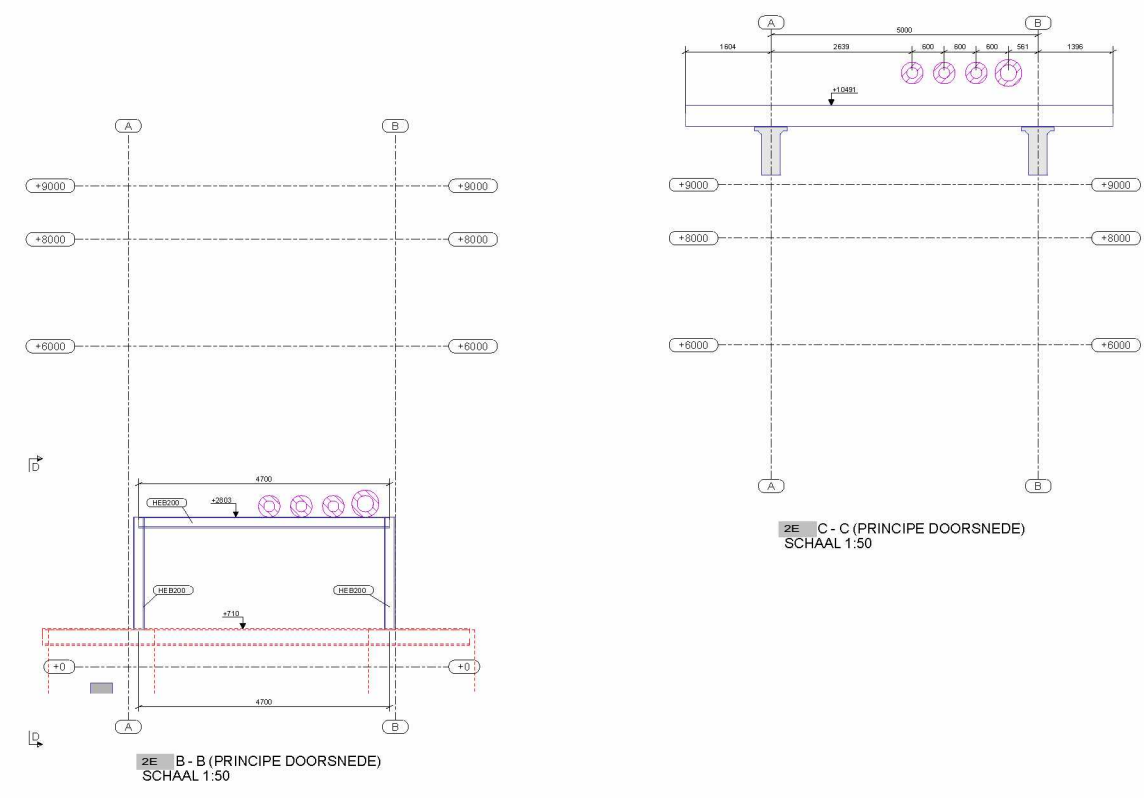
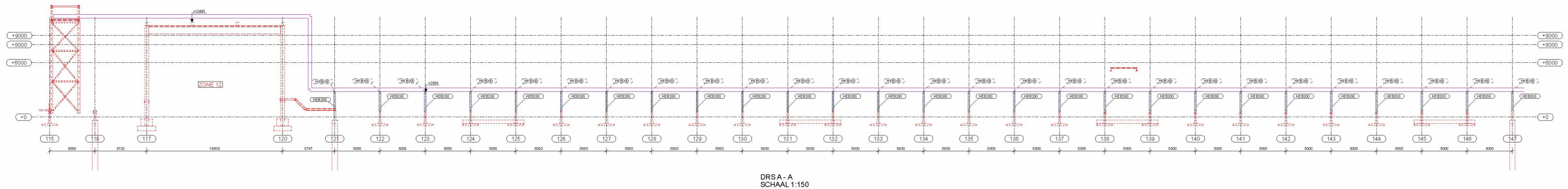
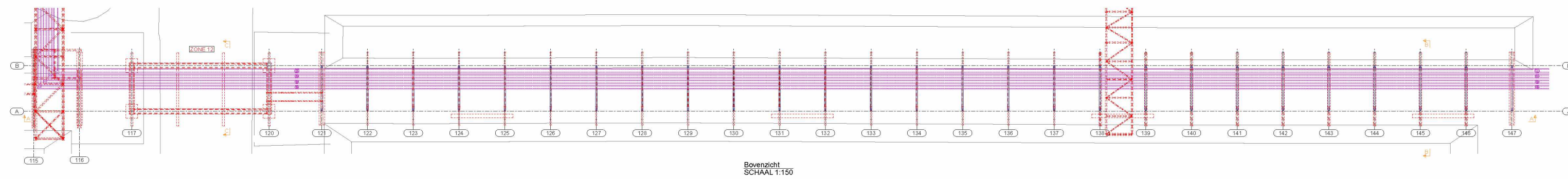
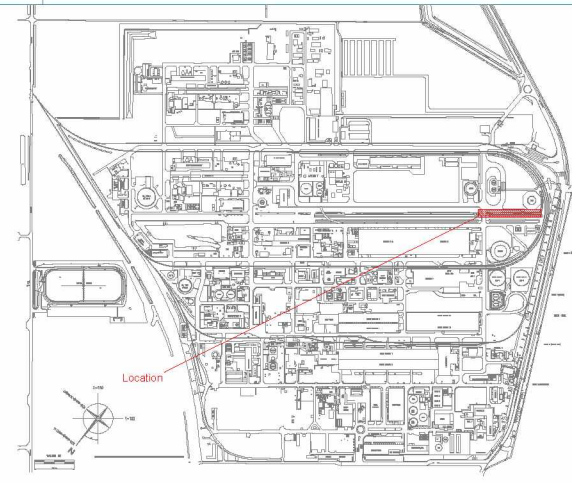










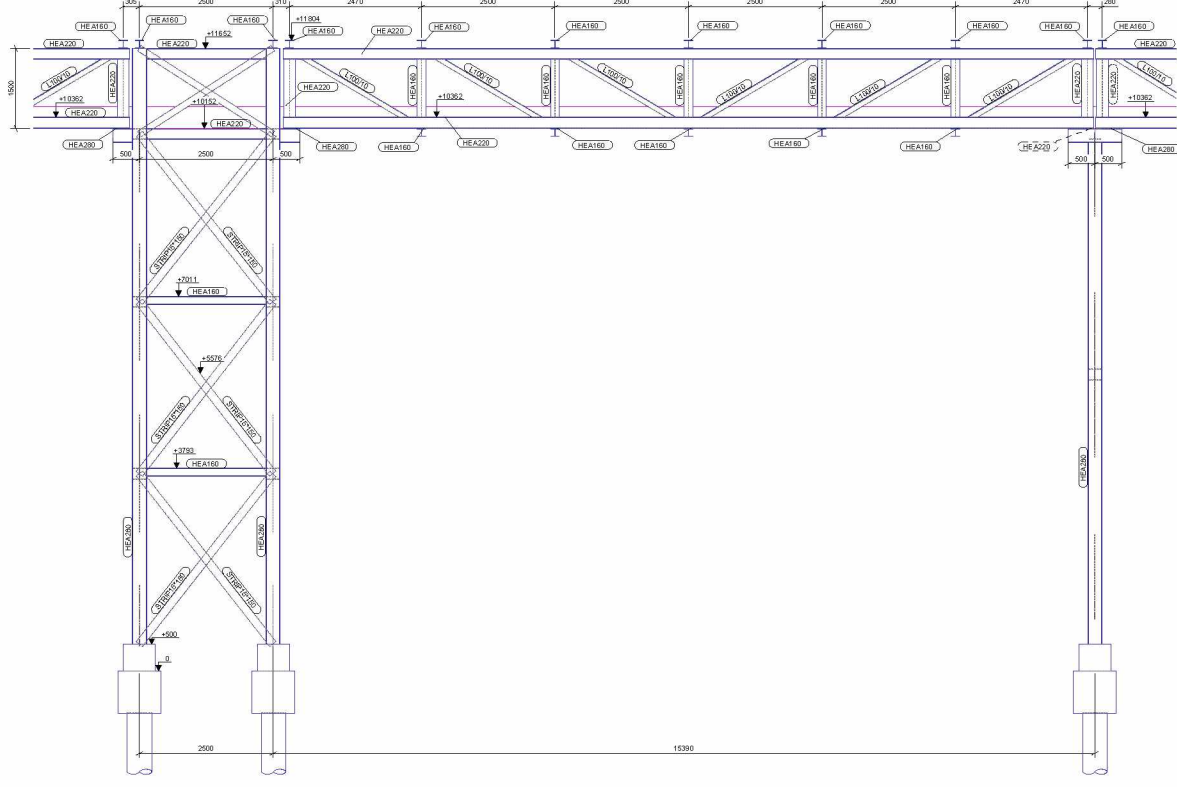
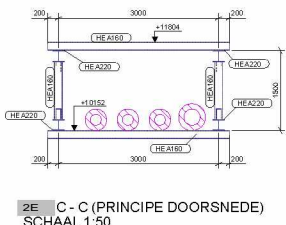
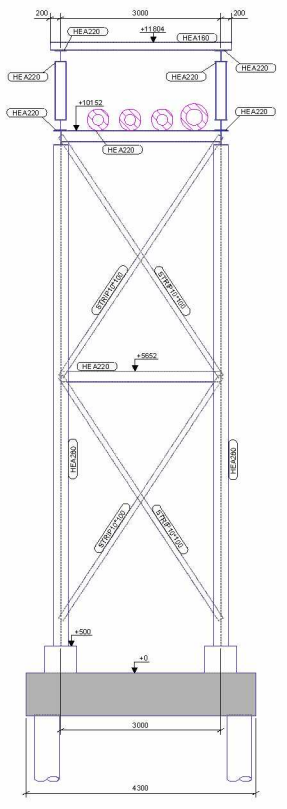
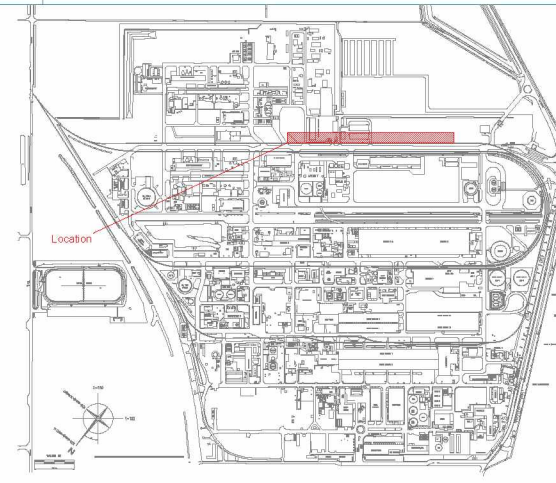
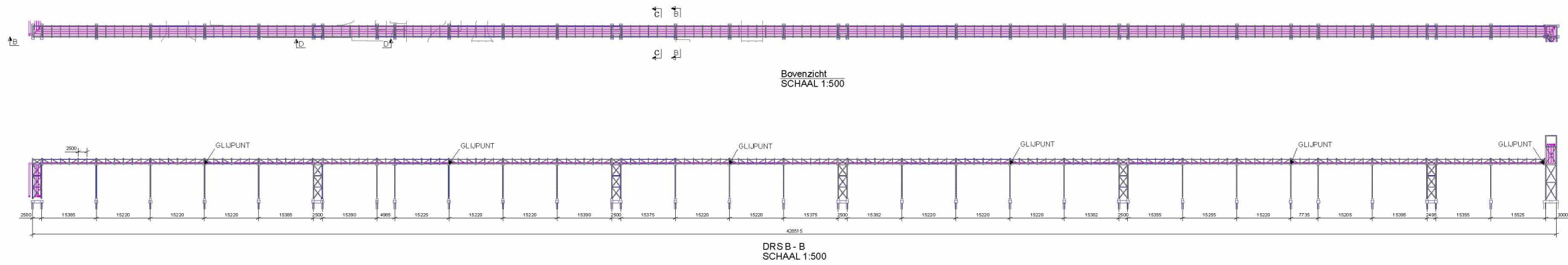


GENERAL STEEL			
STEEL	<ul style="list-style-type: none"> <li>Construction steel: EN 10025-3 + A4</li> <li>Structural steel: EN 10025-2 + A4</li> <li>Welding steel: EN 10025-2 + A4 / EN 10025-3 + A4</li> <li>Construction steel: EN 10025-2 + A4</li> <li>Construction steel: EN 10025-2 + A4 / EN 10025-3 + A4</li> <li>Construction steel: EN 10025-2 + A4 / EN 10025-3 + A4</li> <li>Construction steel: EN 10025-2 + A4 / EN 10025-3 + A4</li> </ul>	<ul style="list-style-type: none"> <li>Additional YARA specifications: EN 10025-2 + A4</li> <li>Additional YARA specifications: EN 10025-3 + A4</li> <li>Additional YARA specifications: EN 10025-2 + A4</li> <li>Additional YARA specifications: EN 10025-3 + A4</li> <li>Additional YARA specifications: EN 10025-2 + A4</li> <li>Additional YARA specifications: EN 10025-3 + A4</li> </ul>	
STEEL GRADES	<ul style="list-style-type: none"> <li>Construction steel: S275JR + A4</li> <li>Structural steel: S275JR + A4</li> <li>Welding steel: S275JR + A4</li> <li>Construction steel: S275JR + A4</li> <li>Construction steel: S275JR + A4</li> <li>Construction steel: S275JR + A4</li> <li>Construction steel: S275JR + A4</li> </ul>	<ul style="list-style-type: none"> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> </ul>	<ul style="list-style-type: none"> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> <li>WELDING DIMENSIONS: A4-70</li> </ul>
EXECUTION CLASS Main steel	EN 1090-1	ANCHORS	EN 1090-2
EXECUTION CLASS Secondary steel	EN 1090-1	PRESERVATION	EN 1090-2
PREPARATION DEGREE	P2	PREPARATION DEGREE	P2
Rev.	Drawn	Check	Appr.
15.12.2022			
Project name: YARA SLUISKIL			
Project description: PIPERACKS CCS PROJECT SUPPORTS OF BEST BETON SLEEPERS ZONE 11			
Project location: YARA			
Project number: 4922005			
Project date: 15.12.2022			
Project scale: 1:150			
Project sheet: 2E			
Project title: TO_1101			



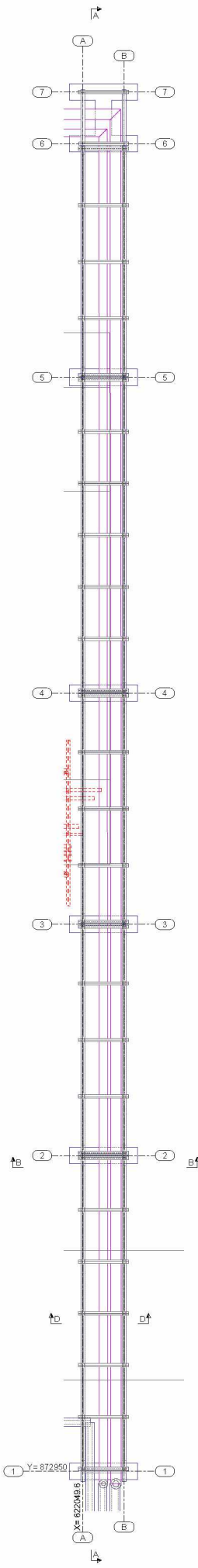




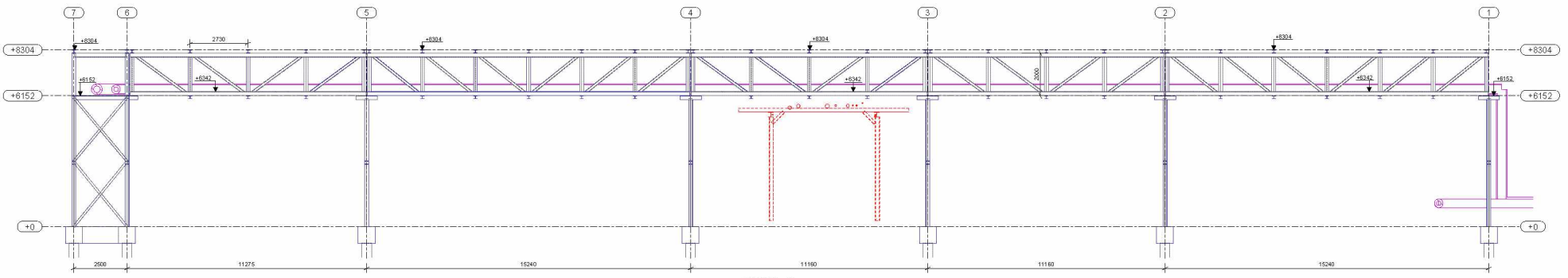


GENERAL STEEL			
<b>STEEL</b> Component: EN 10025-2 + A43 Delivery: EN 10025-2 + A43 Welding: EN 10025-2 + A43 / EN 10025-2 + A43 Corrosion: EN 10025-2 + A43 / EN 10025-2 + A43 Execution: EN 10025-2 + A43 / EN 10025-2 + A43 Form: EN 10025-2 + A43 / EN 10025-2 + A43		<b>ADDITIONAL YARA SPECIFICATIONS</b> Steel: EN 10025-2 + A43 Welding: EN 10025-2 + A43 Corrosion: EN 10025-2 + A43 Execution: EN 10025-2 + A43 Form: EN 10025-2 + A43	
<b>STEEL GRADES</b> S235JR: S235JR + A43 S275JR: S275JR + A43 S355JR: S355JR + A43 S460M: S460M + A43 S460N: S460N + A43		<b>BOLTS</b> A4-70: A4-70 A4-80: A4-80 A4-100: A4-100 A4-120: A4-120	
<b>EXECUTION CLASS Main Steel</b> E27		<b>WELDING DIMENSIONS</b> EN 10025-2 + A43 EN 10025-2 + A43 EN 10025-2 + A43	
<b>EXECUTION CLASS Secondary steel</b> E27		<b>FIRE RESISTANCE</b> R15 <b>CLIMATE CLASS</b> C1	
<b>PREPARATION DEGREE</b> P2		<b>REMARKS</b> -	
<b>REVISIONS</b> Rev. Drawn: 5.12.2022 Check: - Appr: - Date: - Description: Voor omgevingsvergunning			
<b>Projecting company:</b> konstruktis Industrial engineering		<b>Client:</b> YARA SLUISKIL <b>Project:</b> PIPERACKS CCS PROJECT <b>Zone:</b> NIEUW PIPERACK ZONE 15	
<b>Projecting engineer:</b> 4922005		<b>Date:</b> 15.12.2022 <b>Scale:</b> 1:500 <b>Sheet:</b> 2E <b>Drawn by:</b> A0 <b>Checked by:</b> TO_1501	

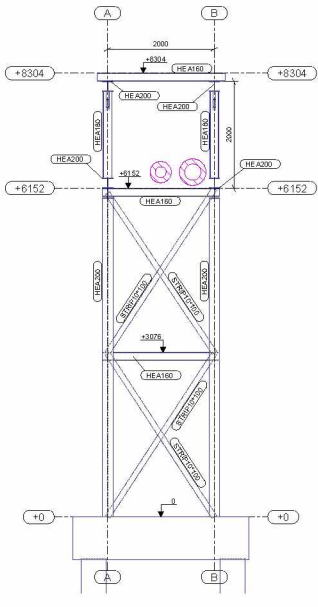




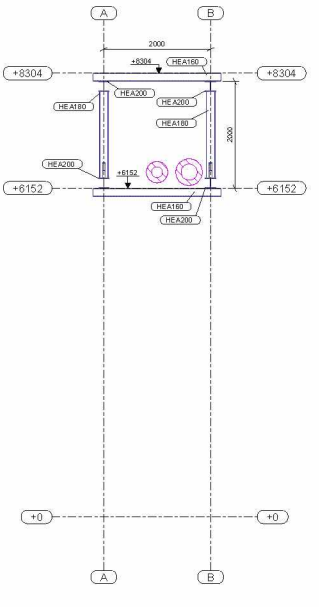
Bovenzicht  
SCHAAL 1:100



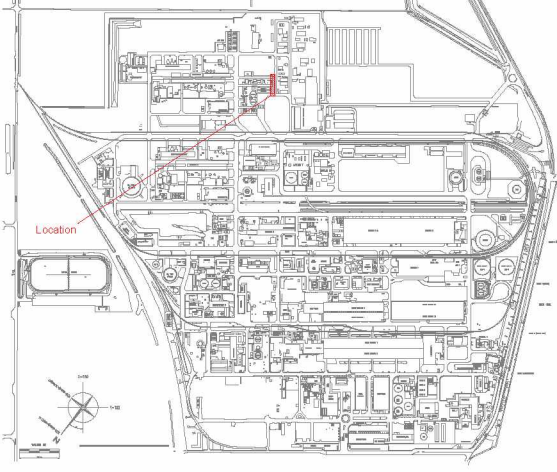
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SCHAAL 1:100



B-B  
SCHAAL 1:50

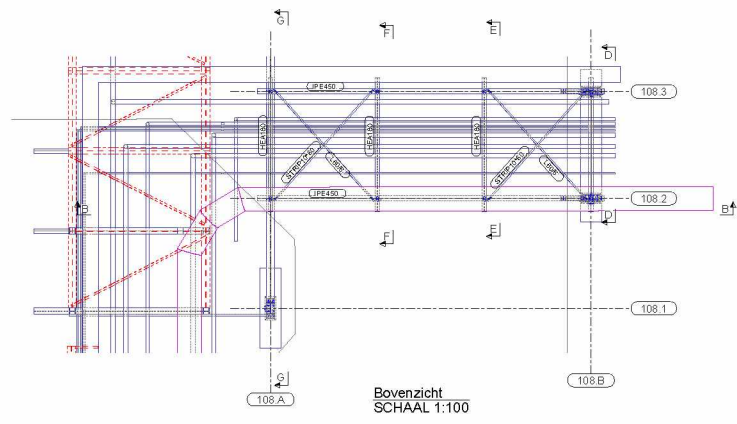


D-D  
SCHAAL 1:50

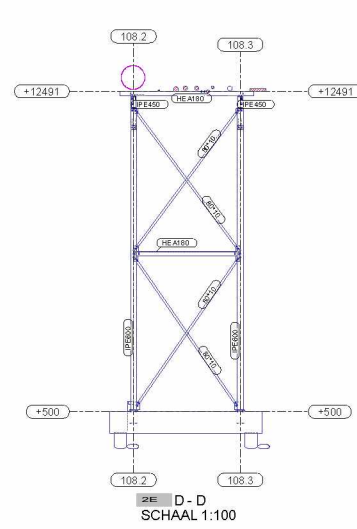


GENERAL STEEL			
<b>STEEL</b>	<ul style="list-style-type: none"> <li>Component steel: EN 10025-1 + A47</li> <li>Special steel: EN 10025-1 + A47</li> <li>Welding steel: EN 10025-1 + A47</li> <li>Corrosion steel: EN 10025-1 + A47</li> <li>Structural steel: EN 10025-1 + A47</li> <li>Form steel: EN 10025-1 + A47</li> </ul>	<b>ADDITIONAL YARA SPECIFICATIONS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>	
<b>STEEL GRADES</b>	<ul style="list-style-type: none"> <li>S235JR</li> <li>S275JR</li> <li>S355JR</li> <li>S460NL</li> <li>S460ML</li> <li>S460M</li> <li>S460L</li> <li>S460M</li> <li>S460L</li> <li>S460M</li> <li>S460L</li> </ul>	<b>BOLTS</b> <ul style="list-style-type: none"> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> <li>A4-70</li> </ul>	<b>WELDING DIMENSIONS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>
<b>EXECUTION CLASS Main steel</b>	<ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>	<b>ANCHORS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>	<b>FIRE RESISTANCE</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>
<b>EXECUTION CLASS Secondary steel</b>	<ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>	<b>PRESERVATION</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>	<b>CLIMATE CLASS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-1 + A47</li> </ul>

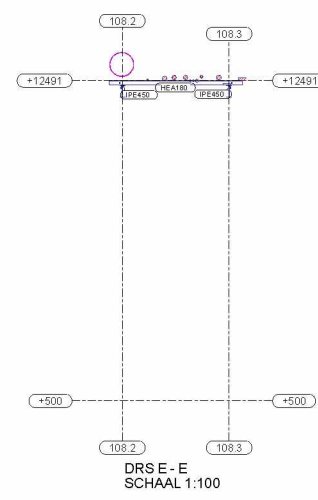
2E 15.12.2022 Voor omgevingsvergunning  
 YARA SLUISKIL  
 PIPERACKS CCS PROJECT  
 NIEUW PIPERACK  
 ZONE 16  
 Yara Technology and Projects  
 TO\_1601



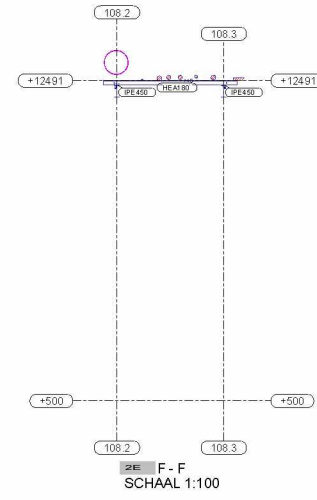
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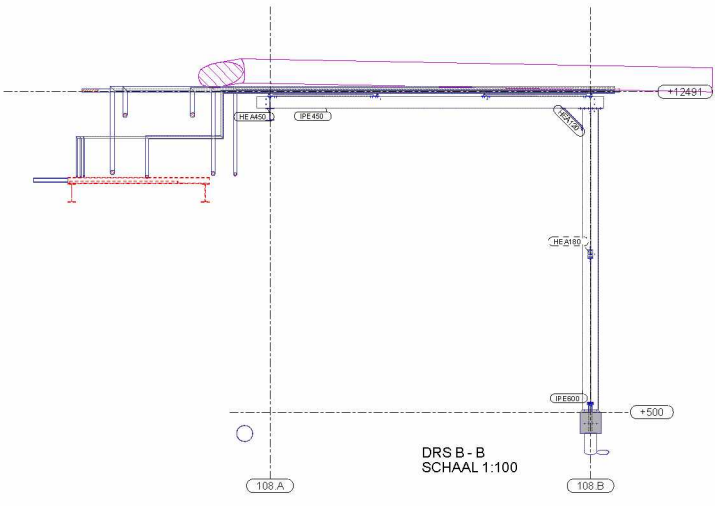
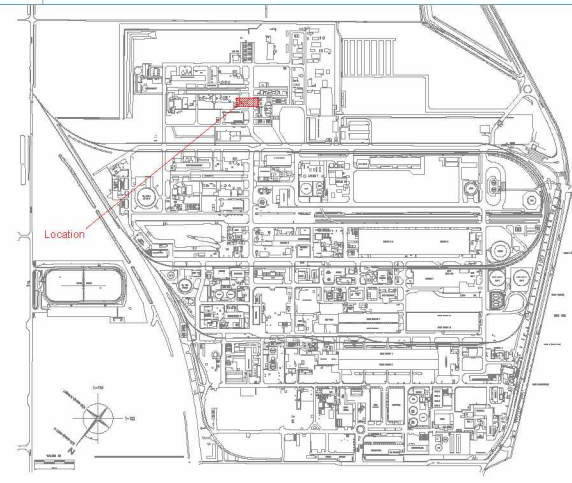
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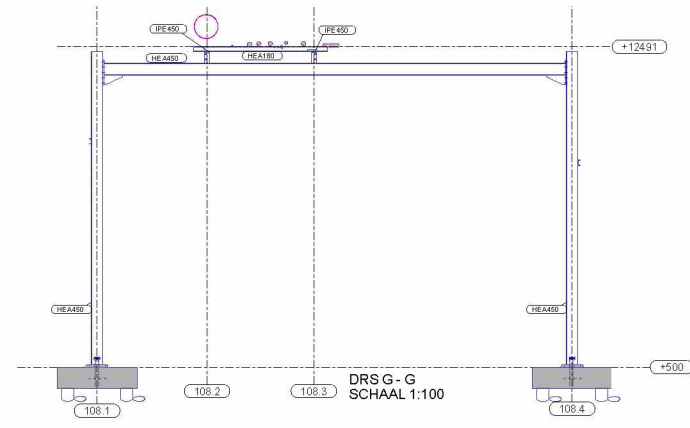
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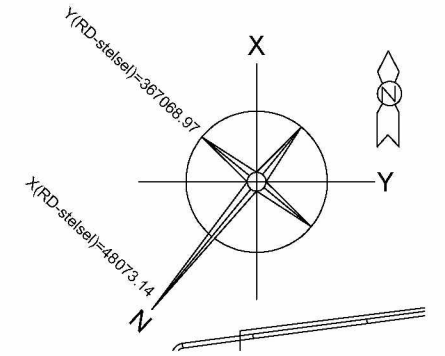
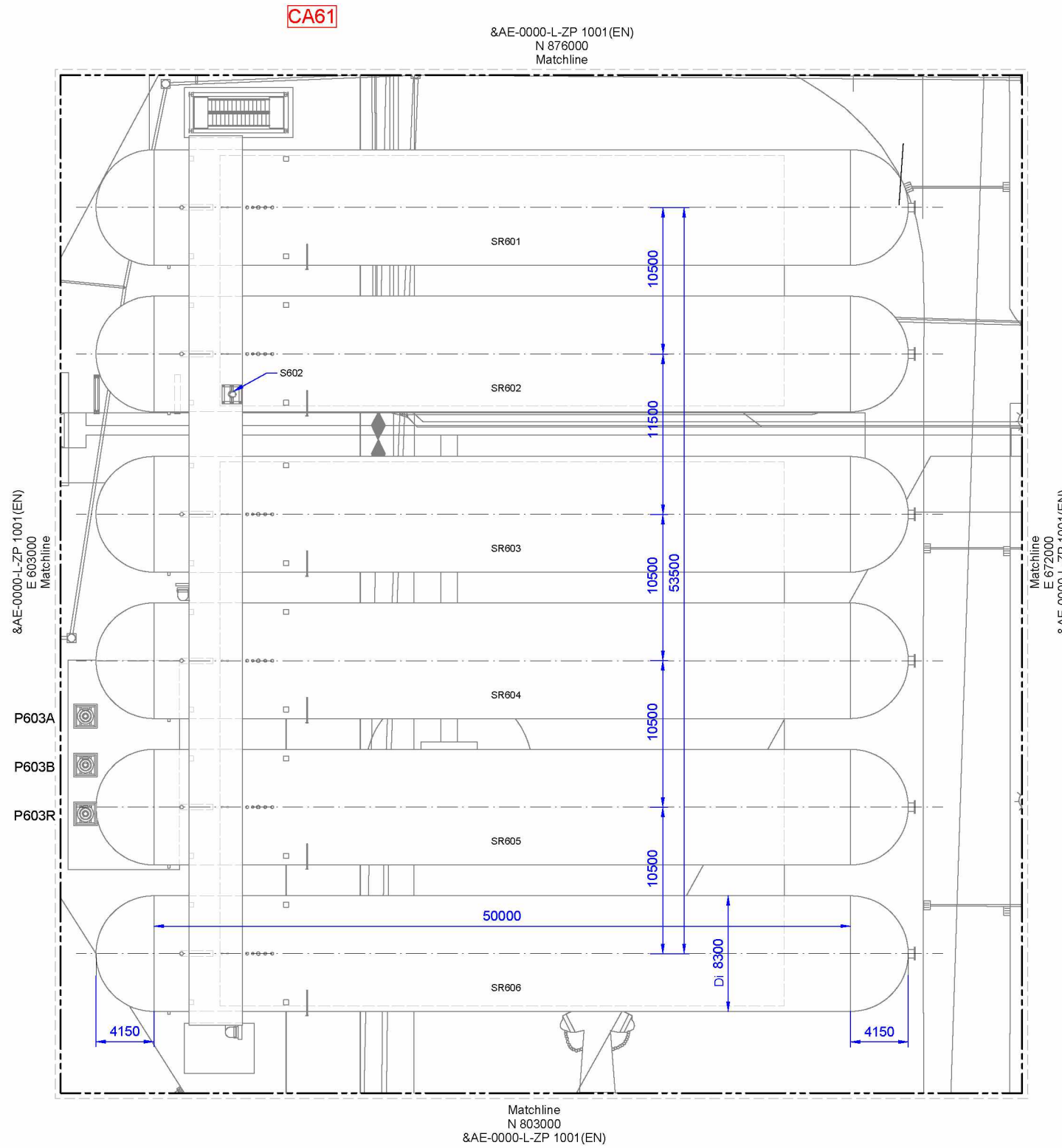
GENERAL STEEL			
<b>STEEL</b> Component steel: EN 10025-3 + S460 Structural steel: EN 10025-2 + S460 Cold-chamber steel: EN 10025-2 + S460 Cold-chamber steel: EN 10025-2 + S460 Cold-chamber steel: EN 10025-2 + S460 Cold-chamber steel: EN 10025-2 + S460 Cold-chamber steel: EN 10025-2 + S460		<b>ADDITIONAL YARA SPECIFICATIONS</b> Steel for the YARA plant: EN 10025-2 + S460 Steel for the YARA plant: EN 10025-2 + S460 Steel for the YARA plant: EN 10025-2 + S460 Steel for the YARA plant: EN 10025-2 + S460 Steel for the YARA plant: EN 10025-2 + S460 Steel for the YARA plant: EN 10025-2 + S460	
<b>STEEL GRADES</b> S460 + N + S460 S460 + N + S460 S460 + N + S460 S460 + N + S460 S460 + N + S460 S460 + N + S460	<b>BOLTS</b> A4-70 A4-70 A4-70 A4-70 A4-70 A4-70	<b>WELDING DIMENSIONS</b> EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460	<b>FIRE RESISTANCE</b> R15 R15 R15 R15 R15 R15
<b>EXECUTION CLASS Main steel</b> E02 E02 E02 E02 E02 E02	<b>ANCHORS</b> A4-70 A4-70 A4-70 A4-70 A4-70 A4-70	<b>PRESERVATION</b> EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460	<b>CLIMATE CLASS</b> C1 C1 C1 C1 C1 C1
<b>EXECUTION CLASS Secondary steel</b> E02 E02 E02 E02 E02 E02	<b>PREPARATION DEGREE</b> P2 P2 P2 P2 P2 P2	<b>REMARKS</b> EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460 EN 10025-2 + S460	
<b>Rev.</b> 2E 2E 2E 2E 2E 2E	<b>Drawn</b> 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022	<b>Check</b> 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022	<b>Appr.</b> 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022 15.12.2022
<b>Project name</b> YARA SLUISKIL PIPERACKS CCS PROJECT NEW PIPERACK ZONE 17	<b>Client</b> YARA Yara Technology and Projects	<b>Project No.</b> 15.12.2022 - IT 100 4922005	<b>Rev. No.</b> 2E TO_1701



# 8. CO<sub>2</sub> opslagtanks

**top view**

Looking Plan  
SCALE: 1:200

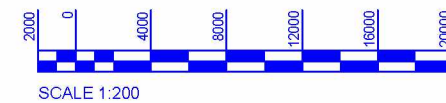


Construction Areas	
CA00	Area not in LEED scope
CA02	CO <sub>2</sub> Compression / Refrigeration (Machine House)
CA03	Field Installation
CA05	Pipe Rack
CA41	Drying Unit
CA51	Rectification Unit
CA61	Tank Farm Unit
CA63	Ship Loading Unit
CA91	Cooling Water Unit

Equipments Tank Area	
P603 A/B/R	CO <sub>2</sub> Loading Pump
S602	Silencer Storage
SR601	CO <sub>2</sub> Storage Tank
SR602	CO <sub>2</sub> Storage Tank
SR603	CO <sub>2</sub> Storage Tank
SR604	CO <sub>2</sub> Storage Tank
SR605	CO <sub>2</sub> Storage Tank
SR606	CO <sub>2</sub> Storage Tank

**Notes:**

- Reference Drawing &AE-0000-L-ZP 1010(EN)  
"Equipment Arrangement Drawing Tank Farm Sections"



2.0	06.09.2022						
1.0	22.07.2022						First Draft
ISSUE	DATE	STATUS	DIVISION	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
PLANT DESCRIPTION							
<b>Carbon Capture Storage Plant, Sluiskil</b>							
LINDE PROJECT NO. 3710A3T8				CLIENT PROJECT NO. 18471			
LINDE PROJECT CODE Suiskil				CLIENT PROJECT CODE CACTUS			
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TITLE <b>Equipment Arrangement Drawing Tank Farm Top View</b>							
SCALE 1:200	SIZE A1	LINDE DOC NO. &AE-0000-L-ZP 1009(EN)				SHEET 1 OF 1	
						REV 01	1