

GENERAL NOTE

1. DESIGN CODES AND OTHER DOCUMENTS AND REFERENCES USED AS A BASIS FOR THE PREPARATION THE STRUCTURAL PART OF THE PROJECT:

LIST OF DESIGN CODES

	Document Number	Name	Note
1	DS/EN 1991-1-1 DK NA	General actions. Densities, self-weight, imposed loads for buildings	
2	DS/EN 1991-1-3 DK NA	General actions.Snow loads	
3	DS/EN 1991-1-4 DK NA	General actions.Wind actions	
4	DS/EN 1993-1-3 DK NA:2019 Part 1-3	General rules. Supplementary rules for cold-formed members and sheeting	

The Danish Building Regulation Standarts

2. APPROVE.

Loads, actions and combinations of actions have been calculated in accordance with DS/EN 1991-1-1 DK NA Eurocode 1 "Actions on structures - 1-1. Part 1.1. General actions. Densities, self-weight, imposed loads for buildings ".

2.1 PERMANENT LOADS

The dead weights of load-bearing structures are generated automatically, taking into account the given geometric characteristics of the cross-sections of the designed structures.

In addition to the values given in the table, the following characteristic values of permanent loads have been adopted:

- external surface of the column G = 0.51 kPa;
- internal surface of the column G = 0.3 kPa;
- roof upper flange G = 0.56 kPa;
- roof lower flange G = 0.3 kPa;
- photovoltaic solar collectors on roof top between D-E/1-9 axes = 0.2 kPa;
- mezzanine ceiling upper flange G = 0.7 kPa;
- mezzanine ceiling lower flange G = 0.33 kPa.

Constant loads on technological equipment (intrinsic weight of technological equipment) should be taken according to the data received from designers preparing other parts of the project.

For permanent impacts partial reliability factor $\gamma_{Gj,sup} = 1,35$

2.2 LIVE LOADS

For the buildings of utilization category A, the following typical values of variable loads have been adopted. - roof: q = 0.6 kPa; - mezzanine q = 1.5 kPa.

For the live loads, the partial safety factor $\gamma_Q = 1.5$

2.3. SNOW LOADS

For the calculation of snow loads, the snow load (Sk = 1.6 kPa) was assumed.

The partial safety factor $\gamma_Q = 1.5$ for snow loads

The characteristic value of the snow load on the horizontal projection of the roof is given by the formula: $s = \mu \times C_e \times C_t \times S_k$; where:

Sk is the characteristic value of the weight of snow cover per 1 m² of horizontal ground surface; μ is the shape factor of the snow load on the roof;

Ce - exposure coefficient;

Ct - thermal coefficient, depending on the energy losses through the roof or other thermal influences.

The design of the roofs of buildings took into account the increase and uneven distribution of snow load due to building overhangs, roof extensions, utility shafts and parapets.

In this case, the characteristic value of the snow load on the horizontal projection of the roof

$$s = \mu \times C_e \times C_t \times S_k = 1.0 \times 1.0 \times 1.0 \times 1.6 = 1.6 \text{ kPa.}$$

0	2023/06	For construction permit (competition) and construction
Issue	Issue date	Issue status and name of change (reason) (if applicable)

Qualif. doc. No.	Name of the project: THE SWEET CUPCAKE LOFT RESIDENTIAL (SINGLE APARTMENT) BUILDING BAUNHØJVEJ 4 6840 OKSBØL CONSTRUCTION PROJECT		
39 232	PV	Building number and name, title of the document: 01. RESIDENTIAL BUILDING GENERAL NOTES (BEGIN) M 1 : 1	Issue
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EN	Customer (builder): E. D.	Sheet	Total
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2.4 WIND LOADS

The wind speed ($V_{ref,0} = 32 \text{ m/s}$) is assumed for the calculation of wind loads. The coefficient $C(z)$ for the change in wind pressure with altitude has been adopted for terrain type B.

Wind forcing partial reliability coefficient $\gamma/Q = 1.5$

The average characteristic value of the wind pressure component on the external surfaces of the structure is calculated as follows formula:

$w/m_e = q_{ref} \times C(z) \times C/e$; where:

q_{ref} is the reference wind pressure;

$C(z)$ is the coefficient for the variation of wind pressure with height;

C/e is the aerodynamic coefficient of the external pressure.

The reference wind pressure is determined using the formula:

$q_{ref} = (p/2) \times V_{ref}^2$; where:

V_{ref} is the reference wind speed;

p is the air density.

The reference wind speed is given by the formula:

$V_{ref} = C/DIR - C/TEM - C/ALT - V_{ref,0}$; where:

C/DIR is the direction coefficient;

C/TEM is the coefficient of the period (season);

C/ALT - altitude coefficient;

$V_{ref,0}$ is the basic reference value for wind speed.

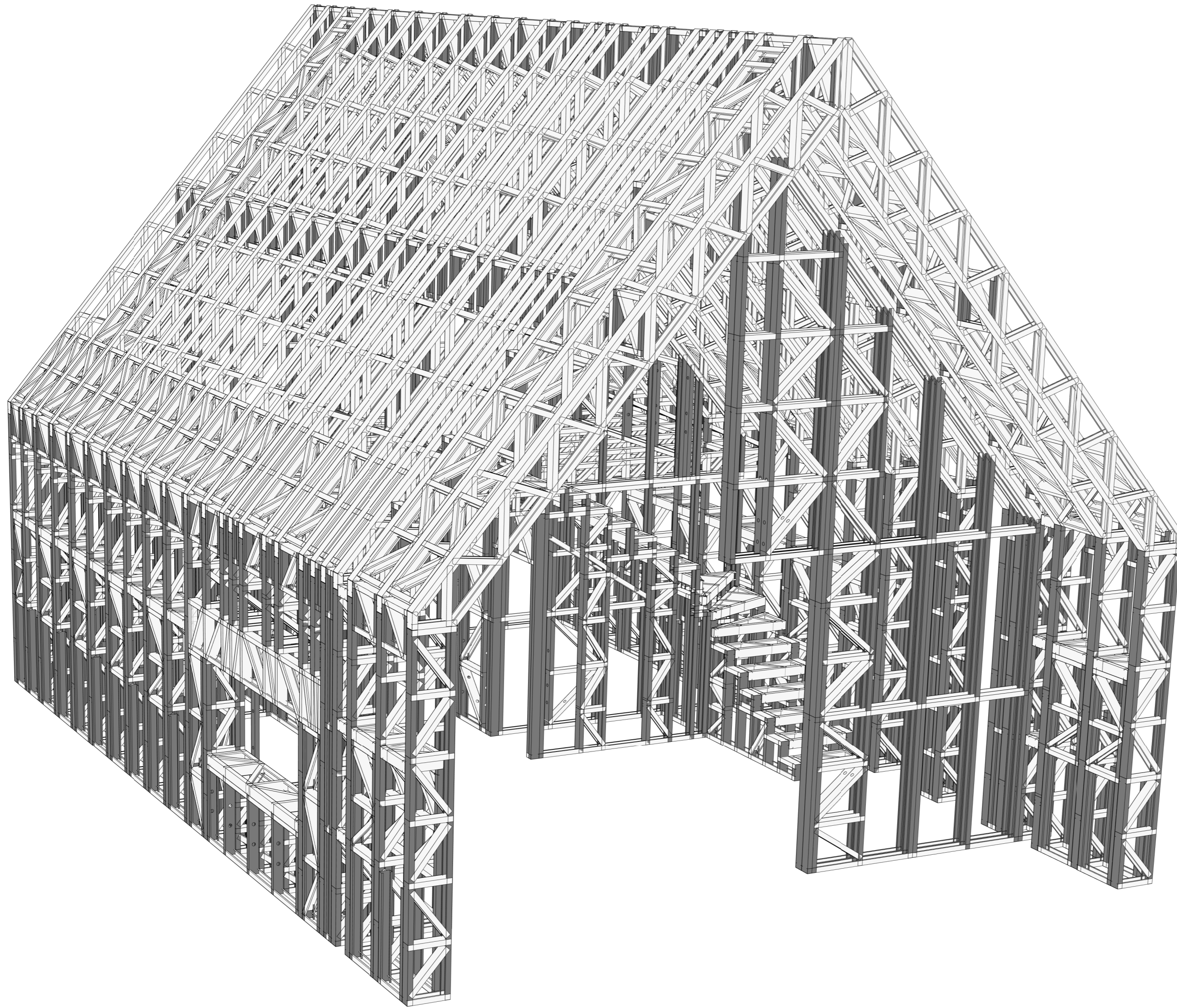
In the present case, the reference wind pressure is:

$q_{ref} = (1.25/2) \times 32^2 = 640 \text{ N/m}^2 = 0.64 \text{ kPa}$.

3. MOUNTING INSTRUCTIONS

1. Column connection to foundations perform by anchor M12 bolts.
2. Roof trusses to columns connection perform by M12 bolts.
3. Roof trusses to roof trusses connection perform by 1 M12 bolt and $\varnothing 6.0$ screws.
4. Floor trusses to columns connection perform by 1 M12 bolt and $\varnothing 6.0$ screws.
5. Vertical braces to columns connection perform by $\varnothing 6.0$ screws.
6. Horizontal braces to truss connection perform by $\varnothing 6.0$ screws.
7. Walls to foundation connection perform by anchor M12 bolts.
8. Wall to wall connections perform by $\varnothing 6.0$ screws.
9. Stairs elements connections perform by $\varnothing 6.0$ screws.

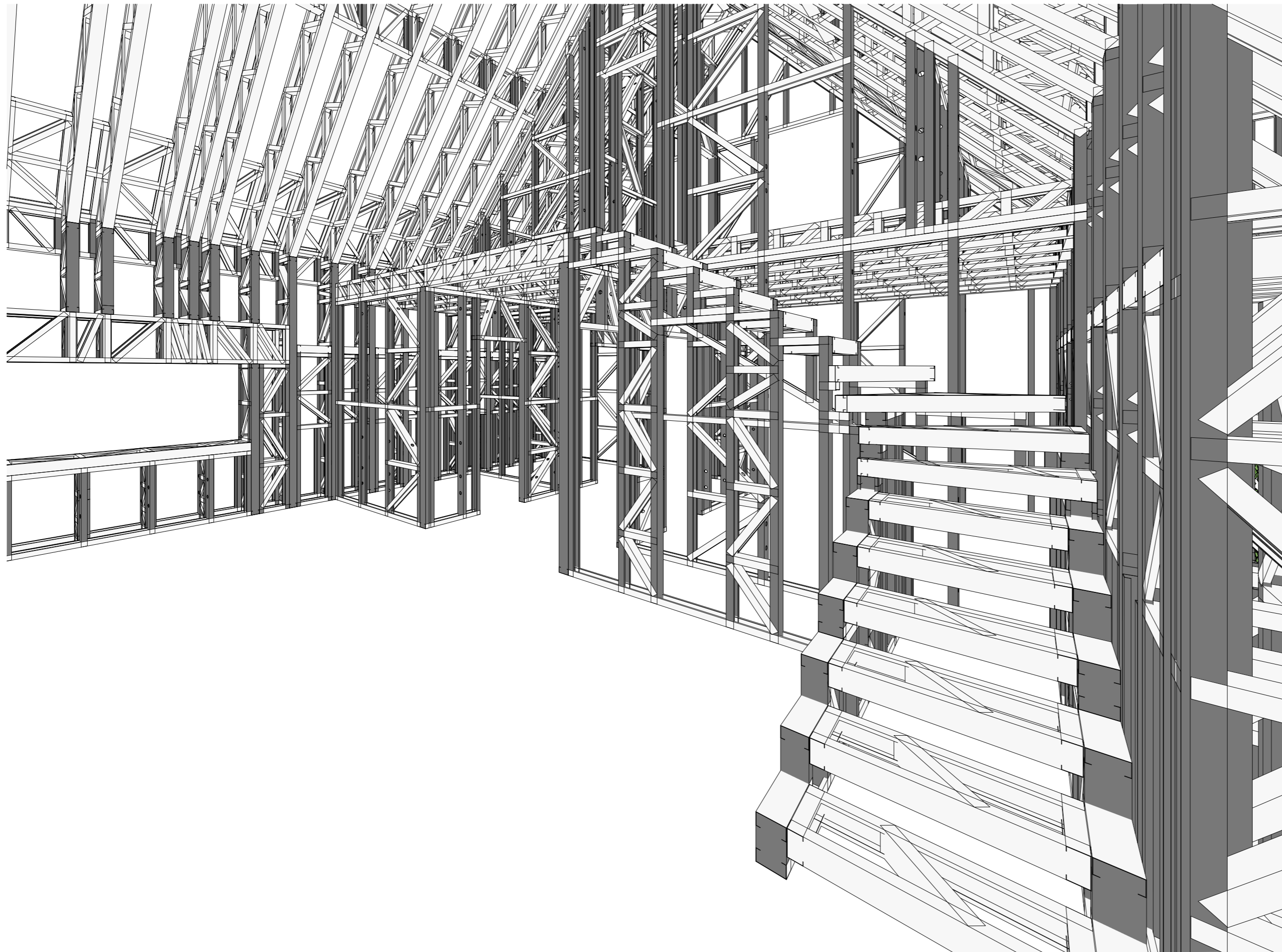
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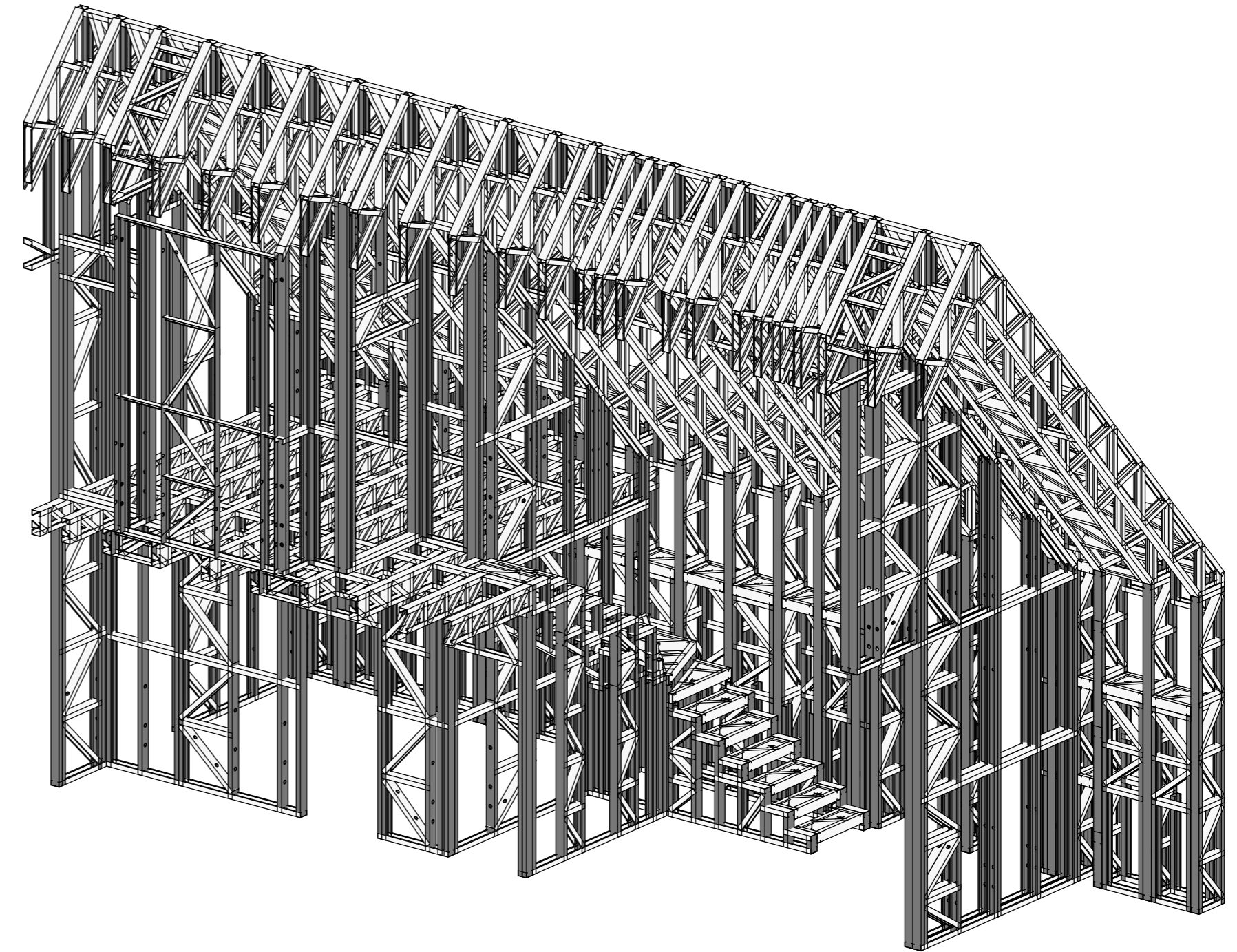
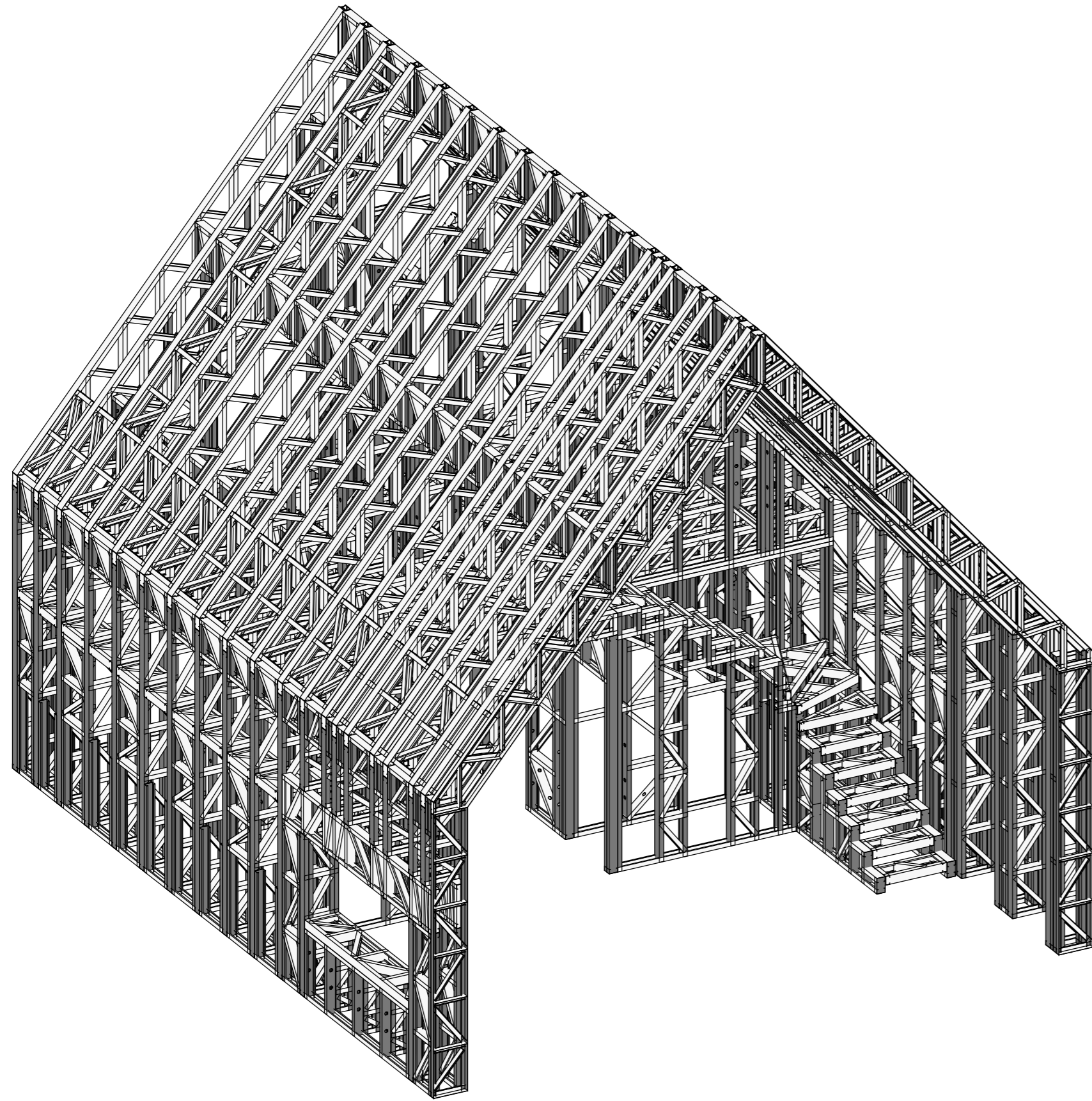
3D Main View

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1 3D Stair View

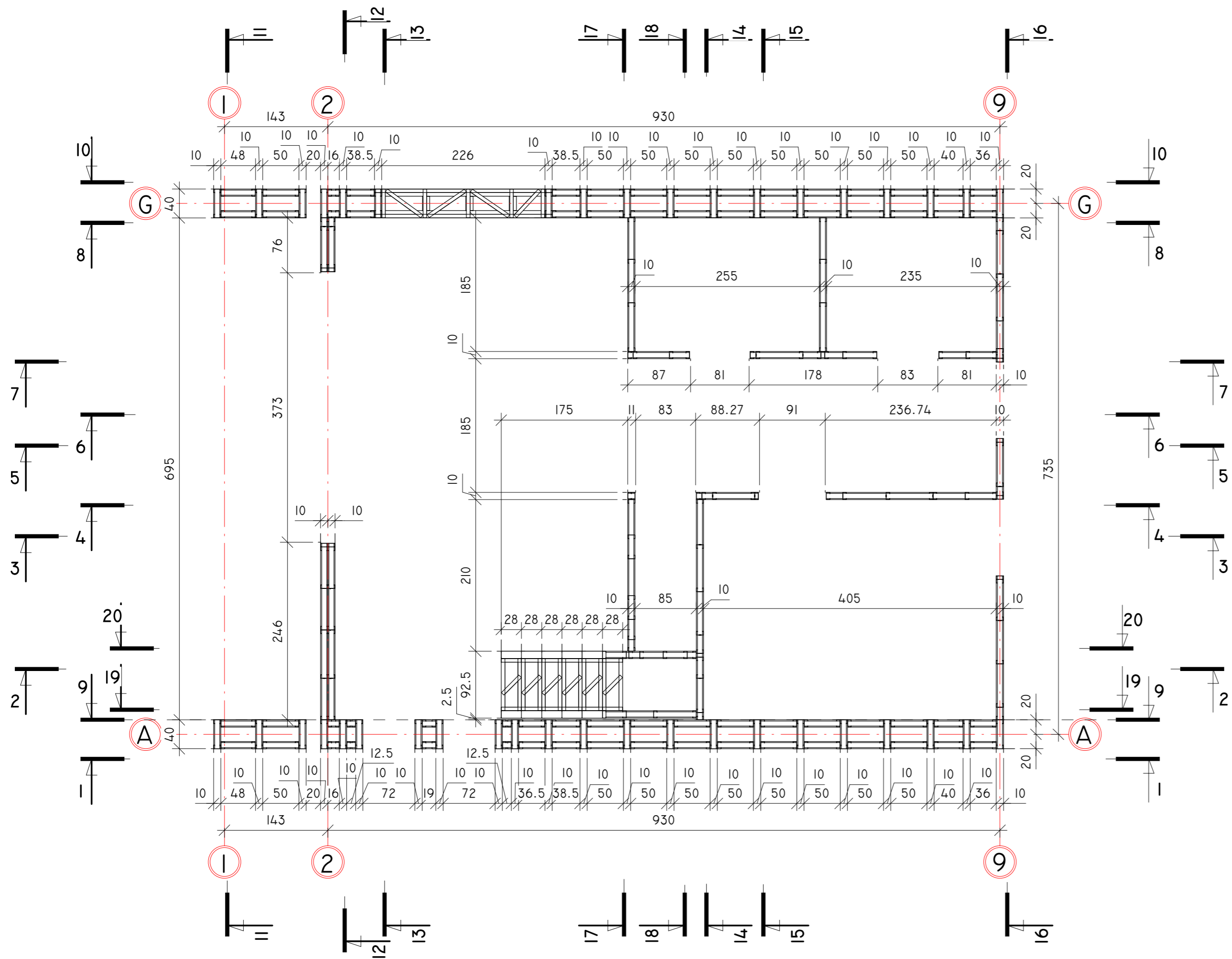
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1 3D Projection 1

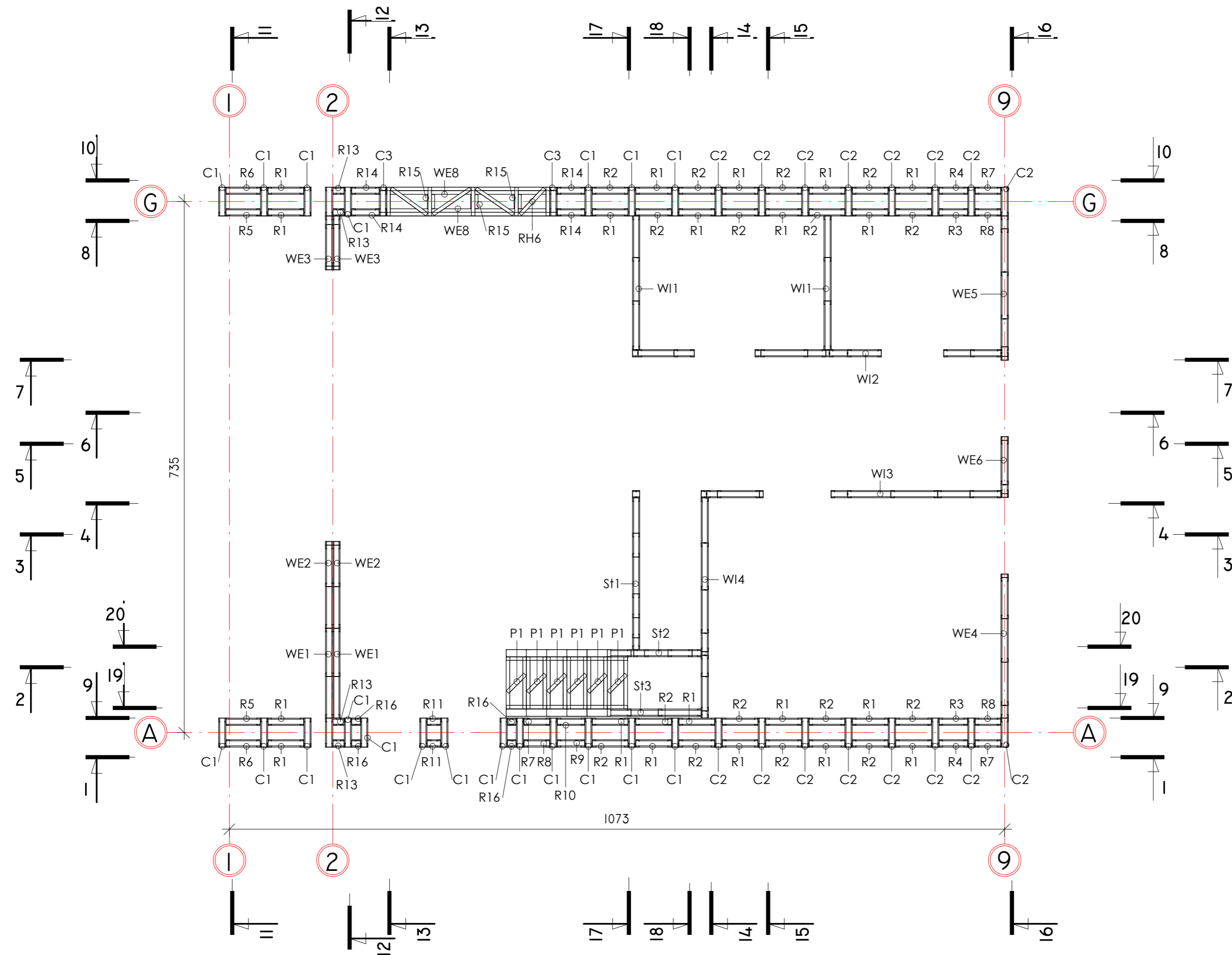
2 3D Projection 2

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39 233	PDV SK	RESIDENTIAL (SINGLE APARTMENT) BUILDING BALNHØJVEJ 4 6840 OKSBØL	
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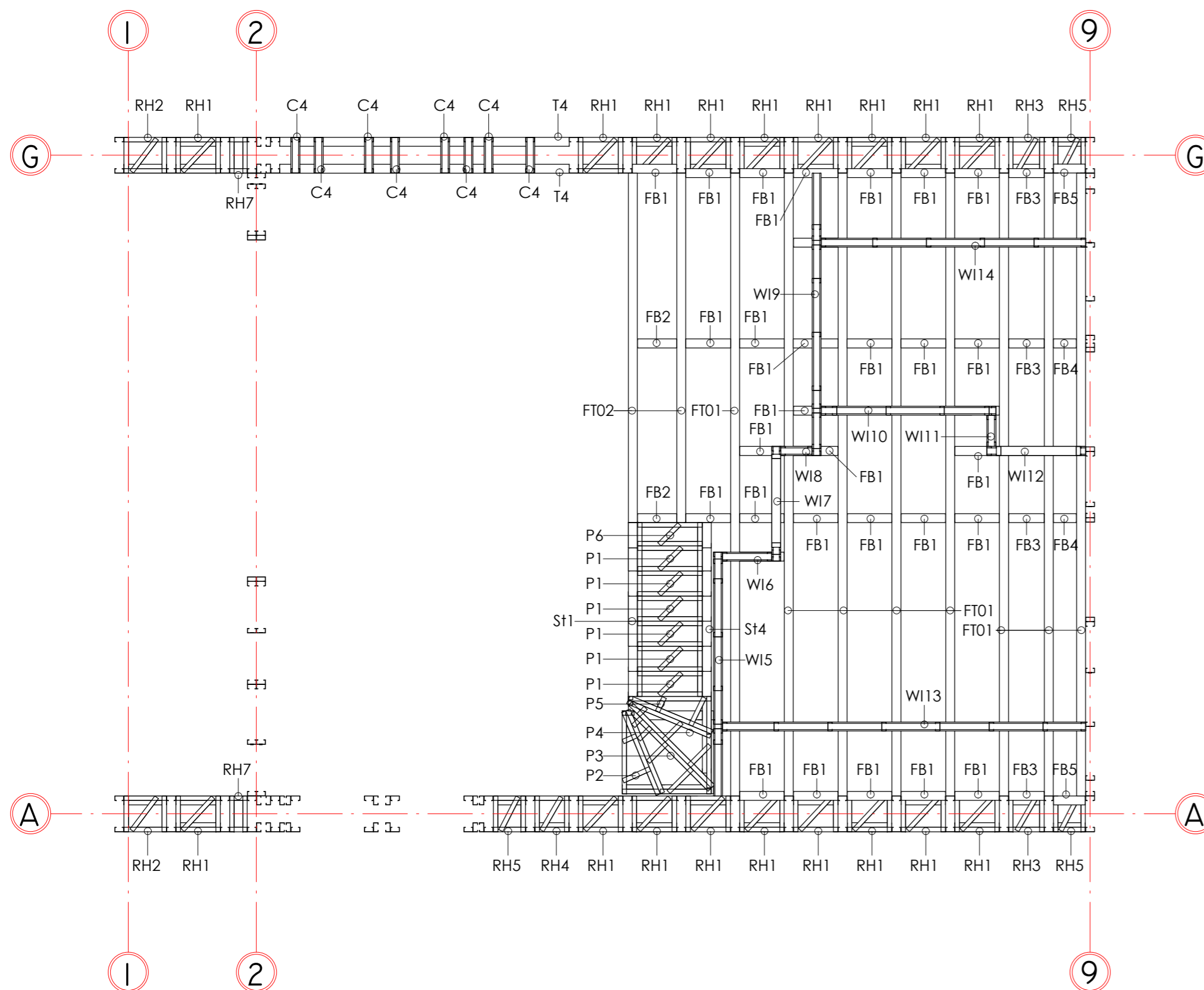
1 Dimension plan at el.-0.020
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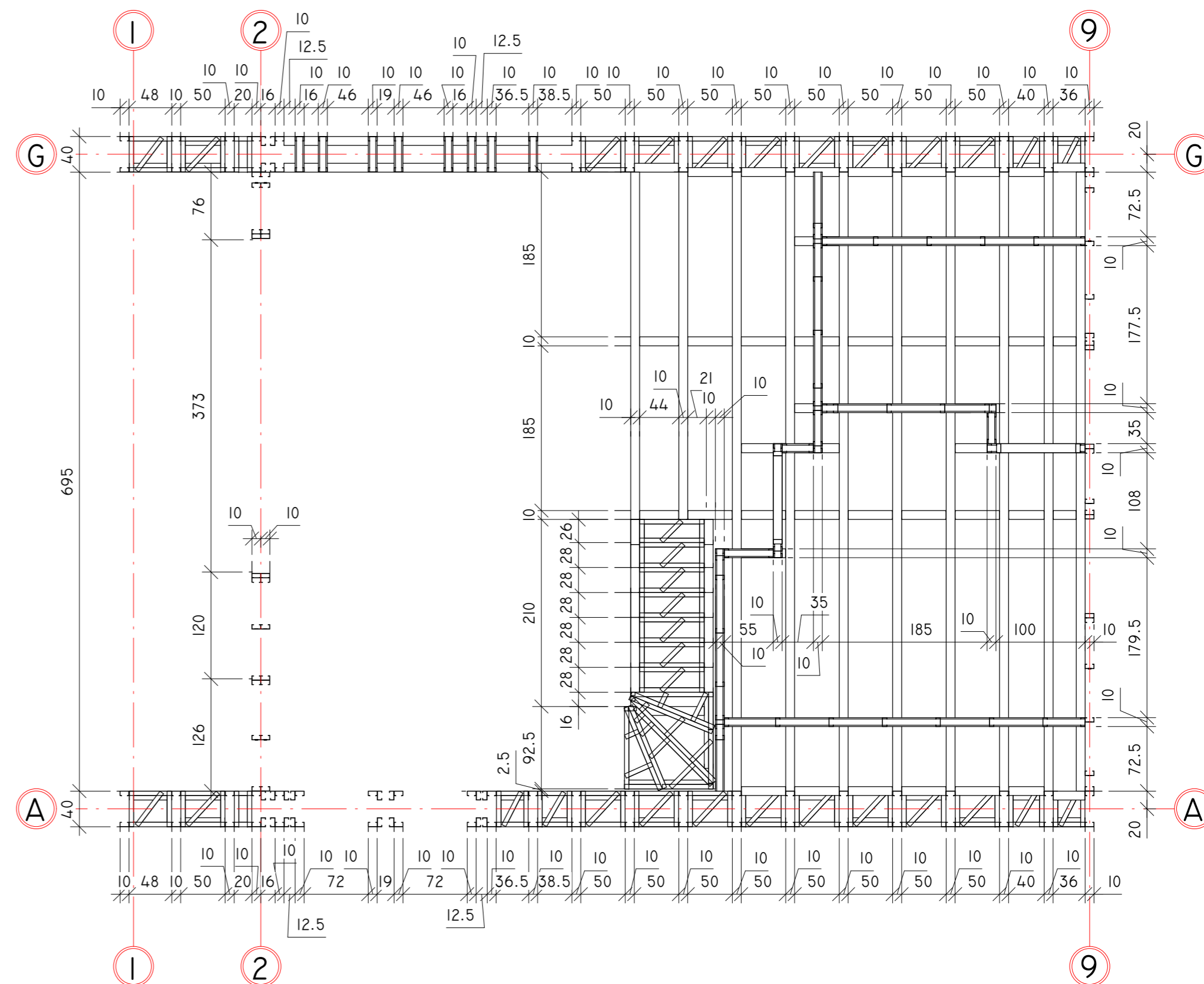


1 Marking plan at el.-0.020
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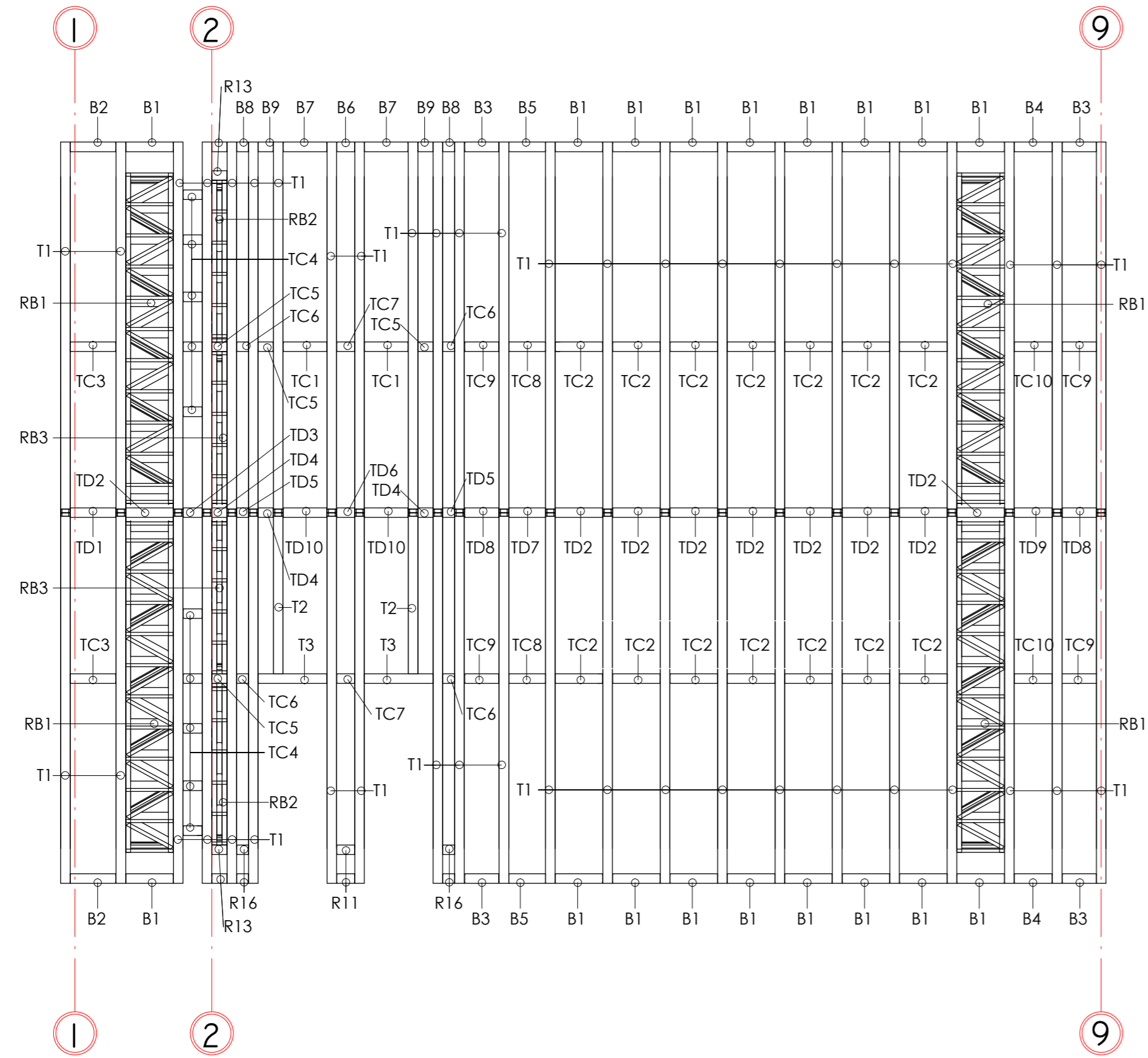


1 Marking plan at el.
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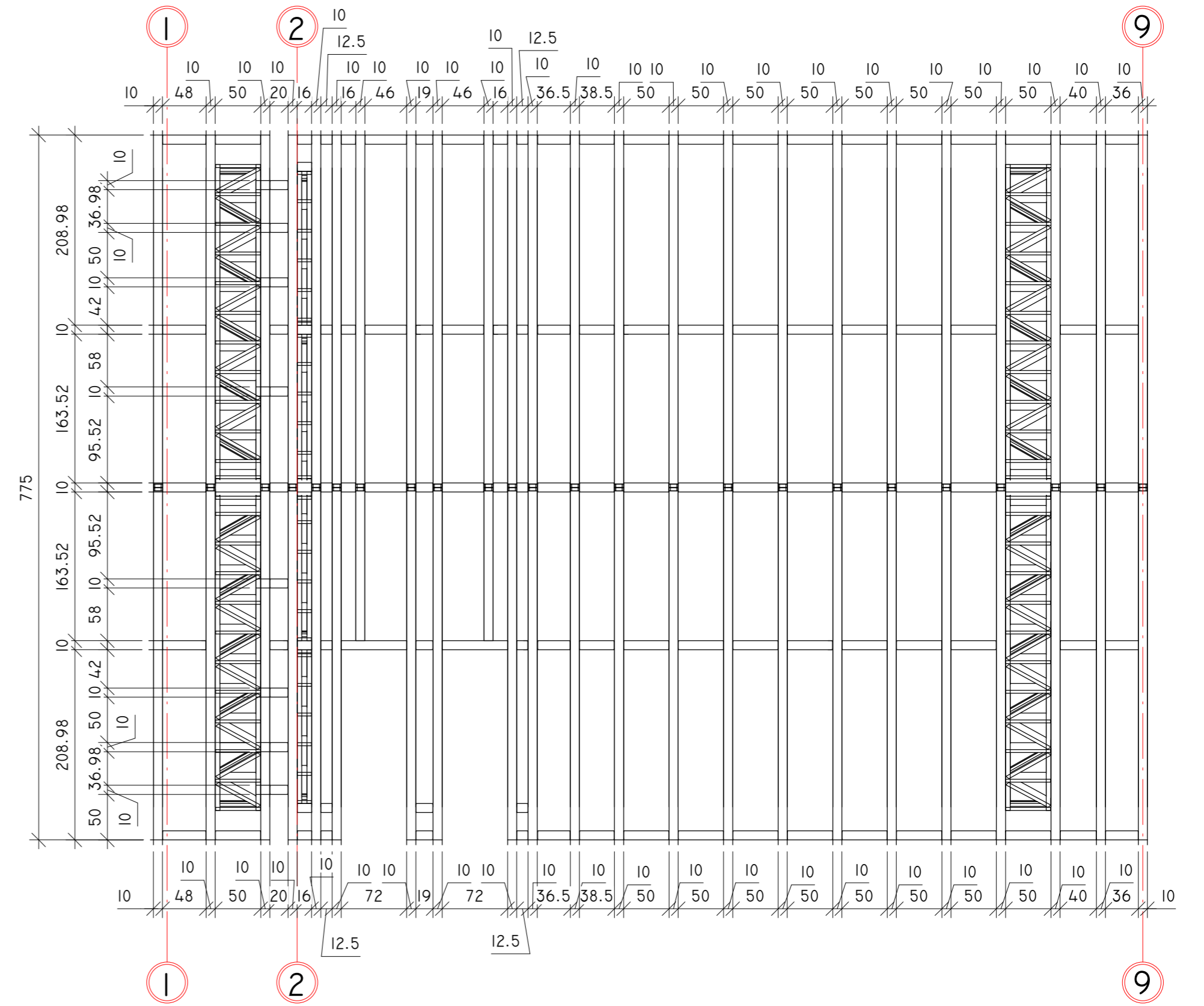
2 Dimension plan at el.
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1 Marking plan at level of truss bottom chord
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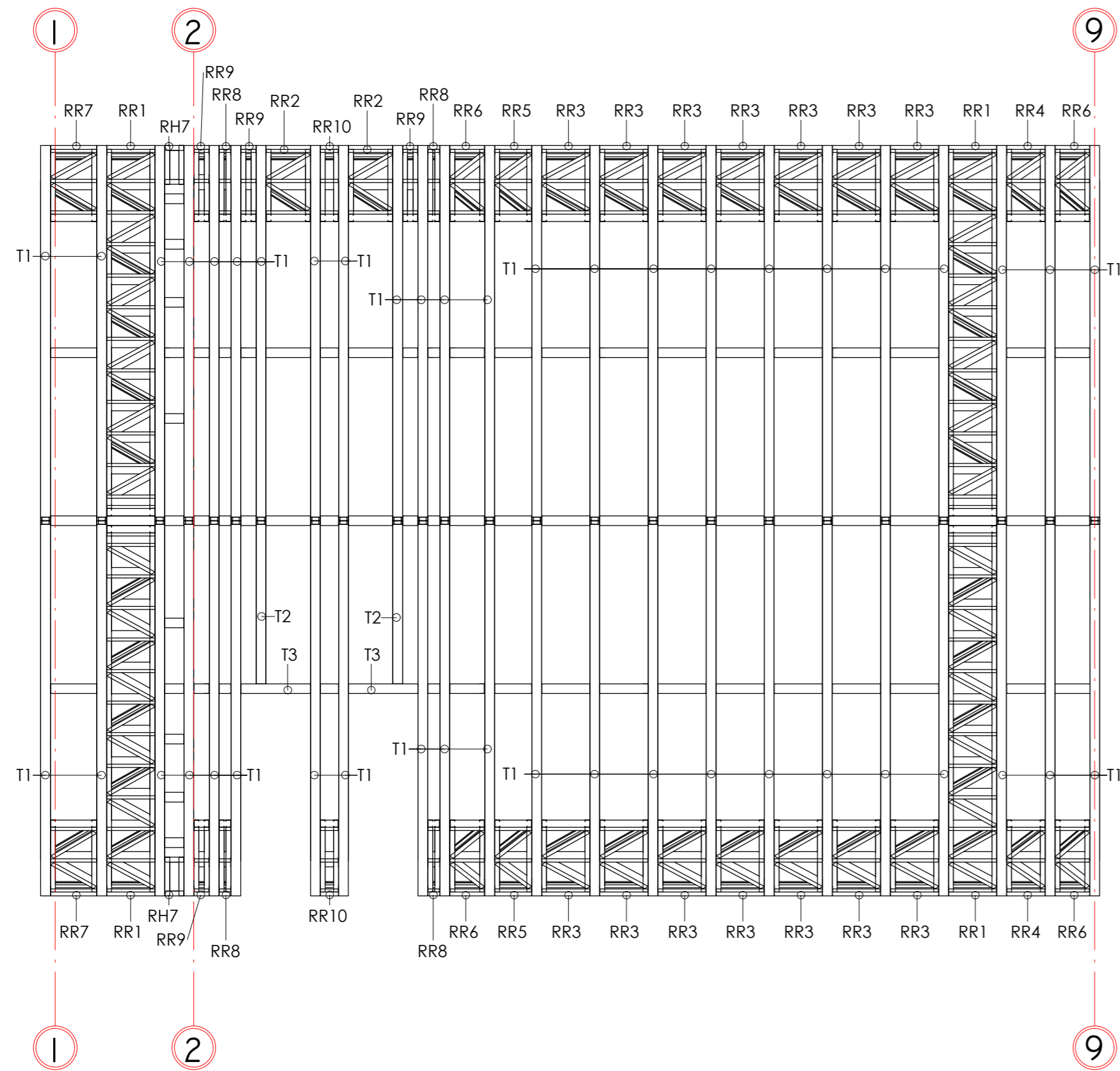
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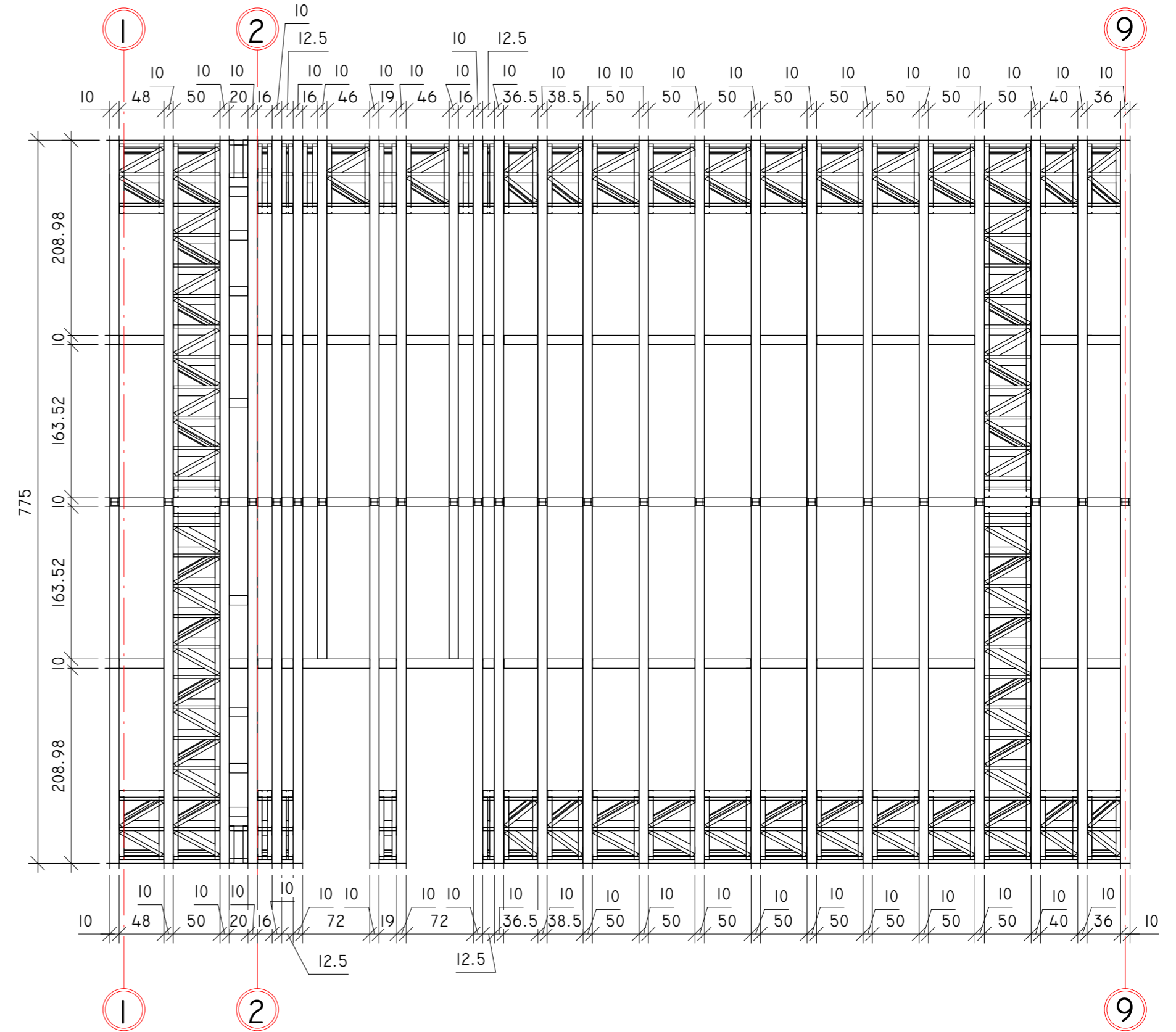
2 Dimension plan at level of truss bottom chord
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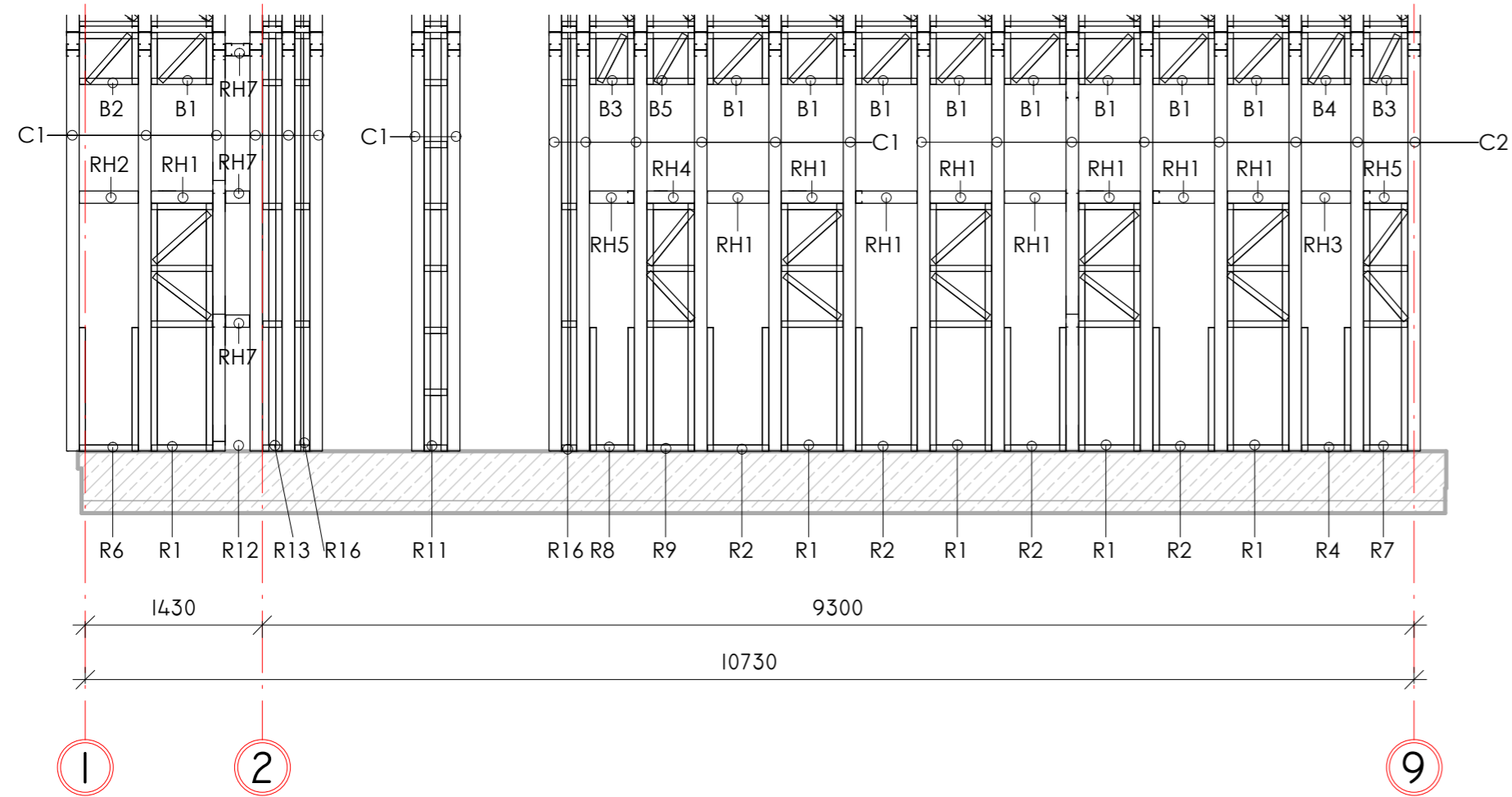


1 Marking plan at level of truss top chord
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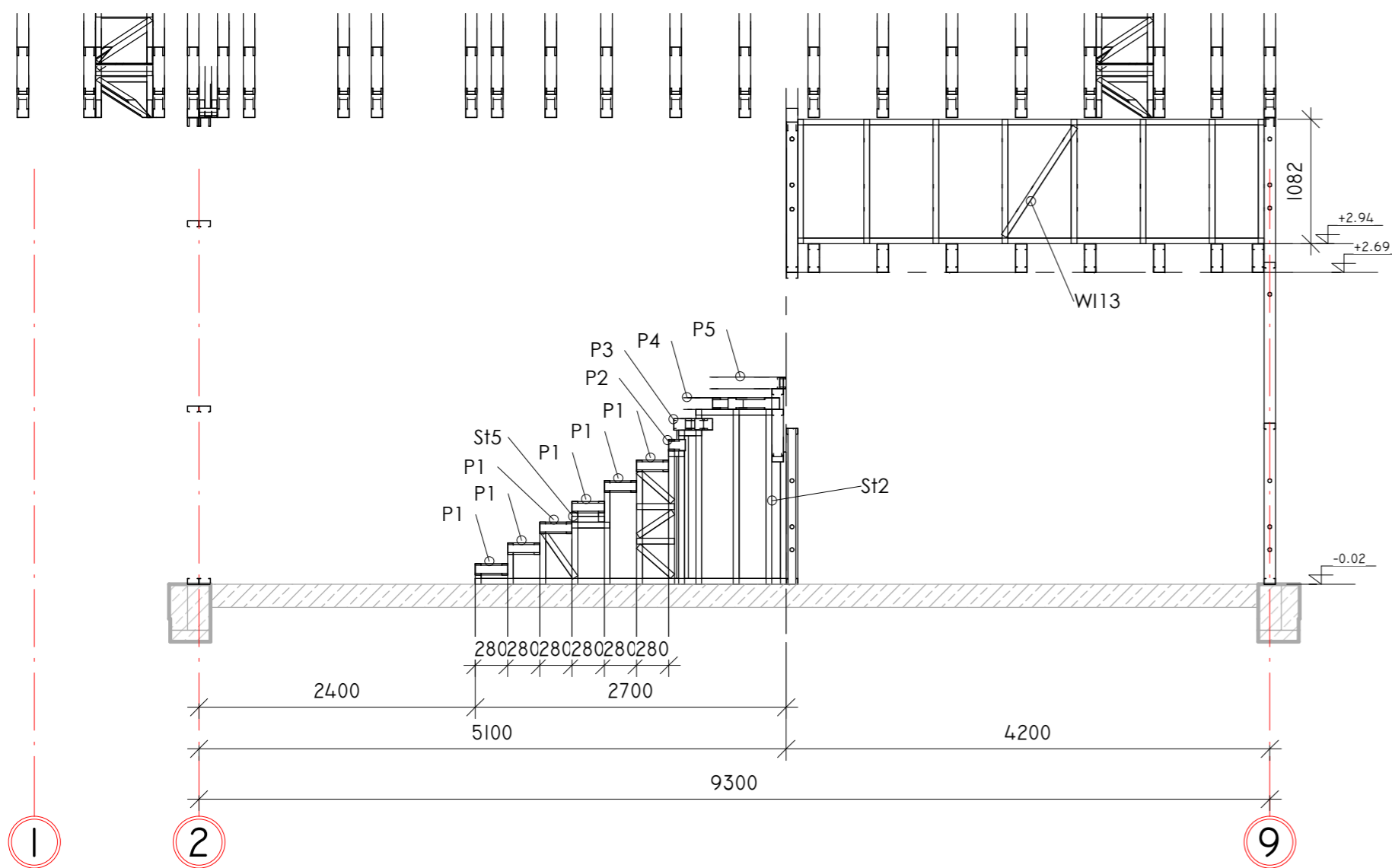


2 Dimension plan at level of truss top chord
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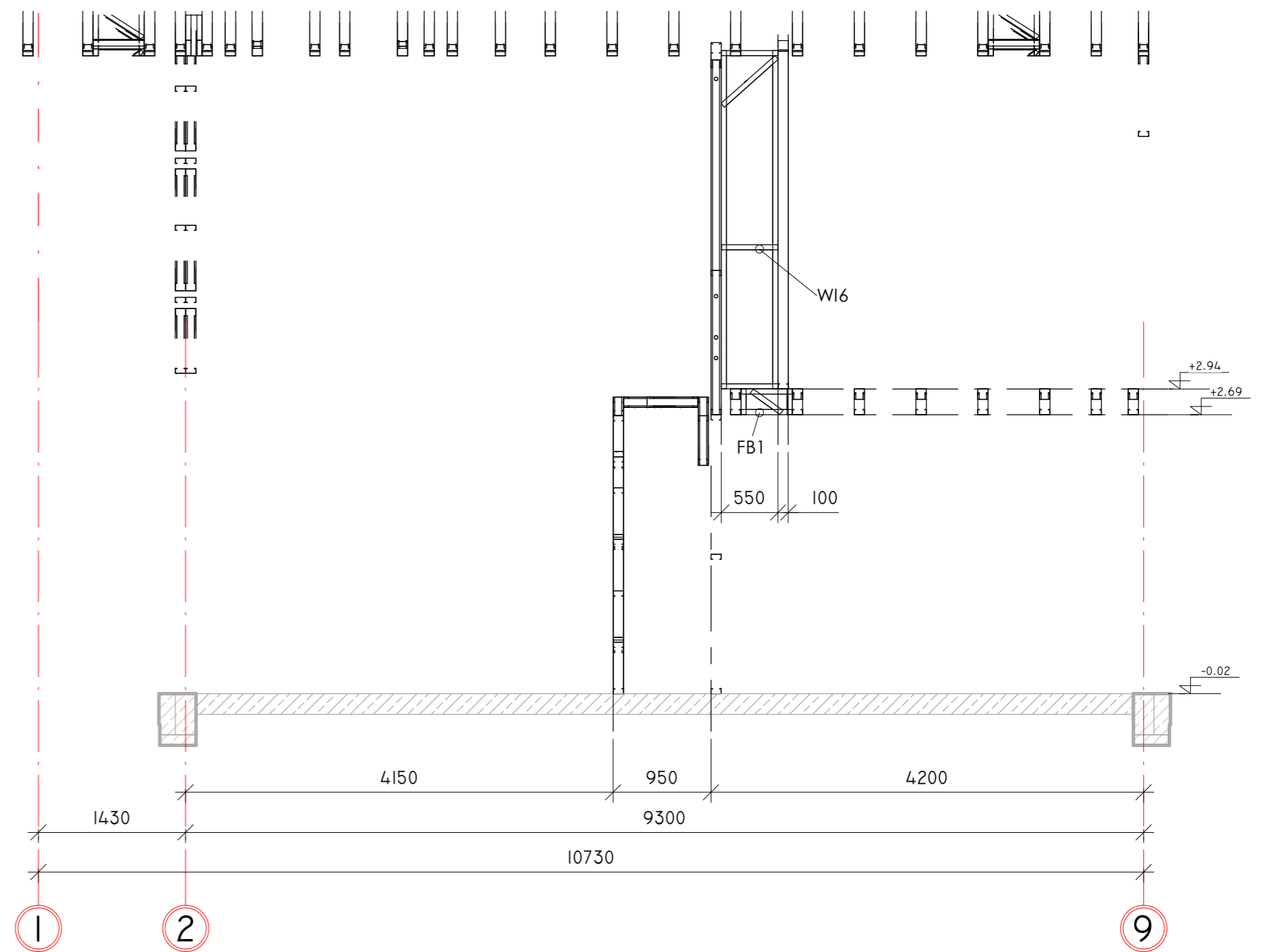
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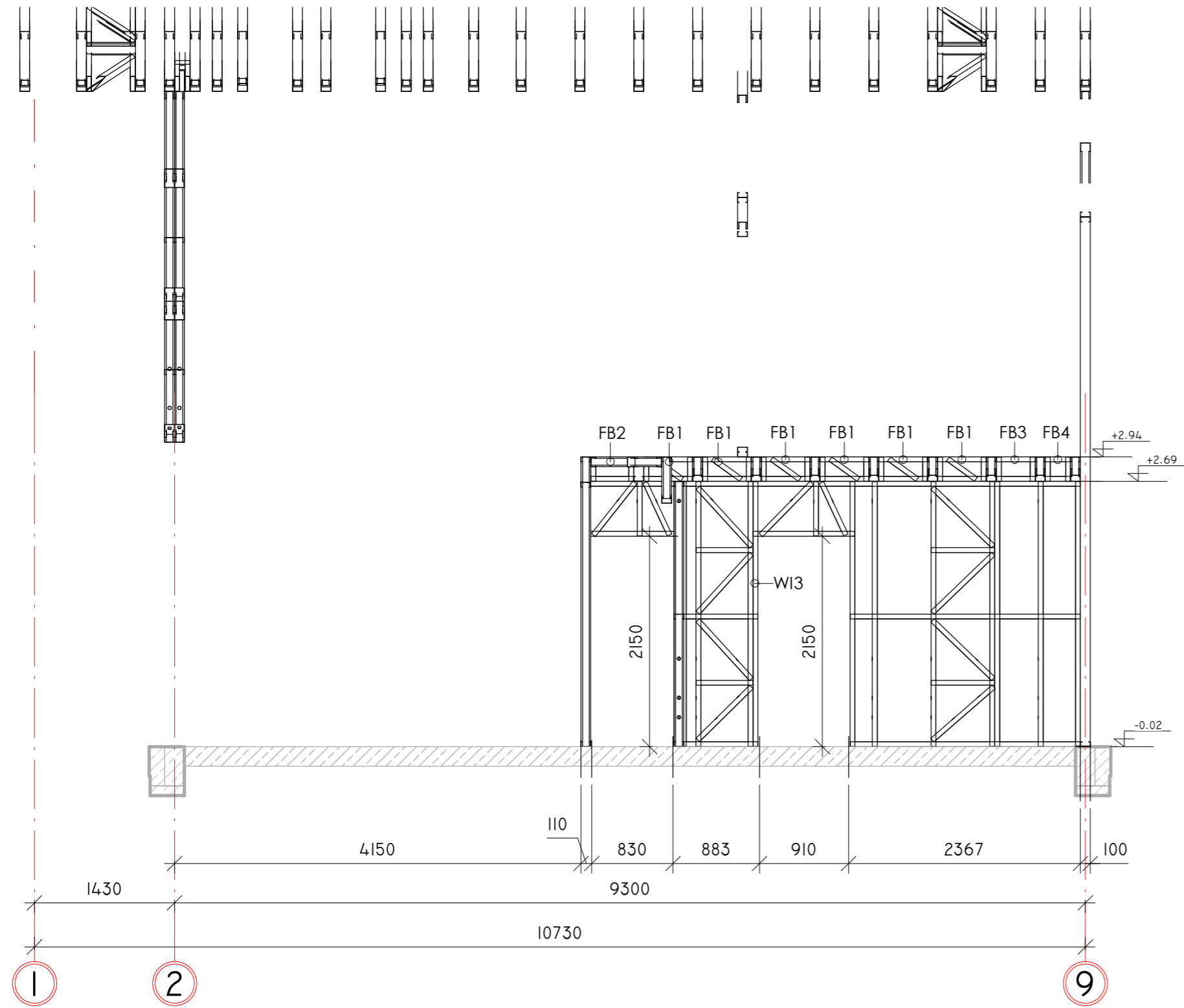


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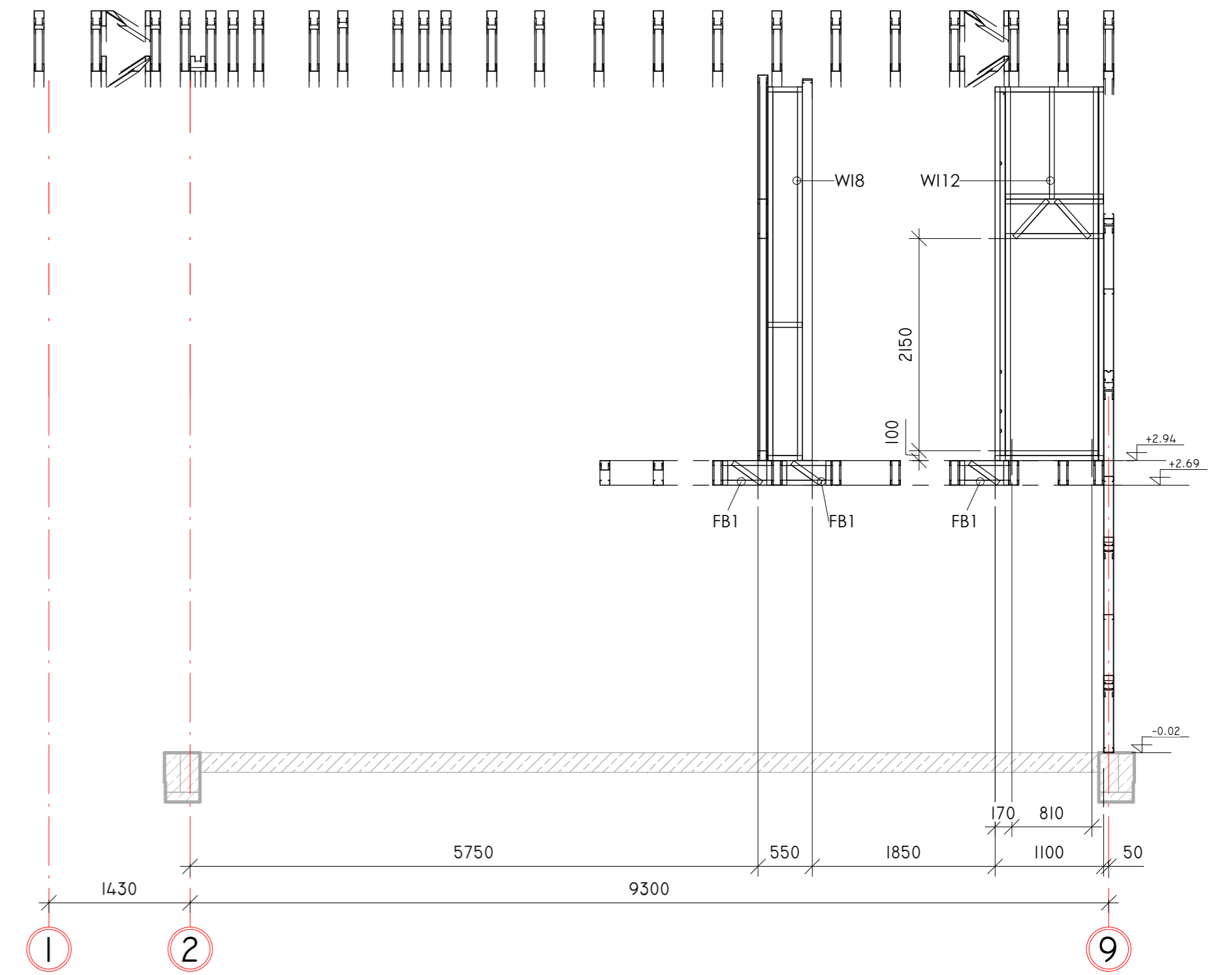


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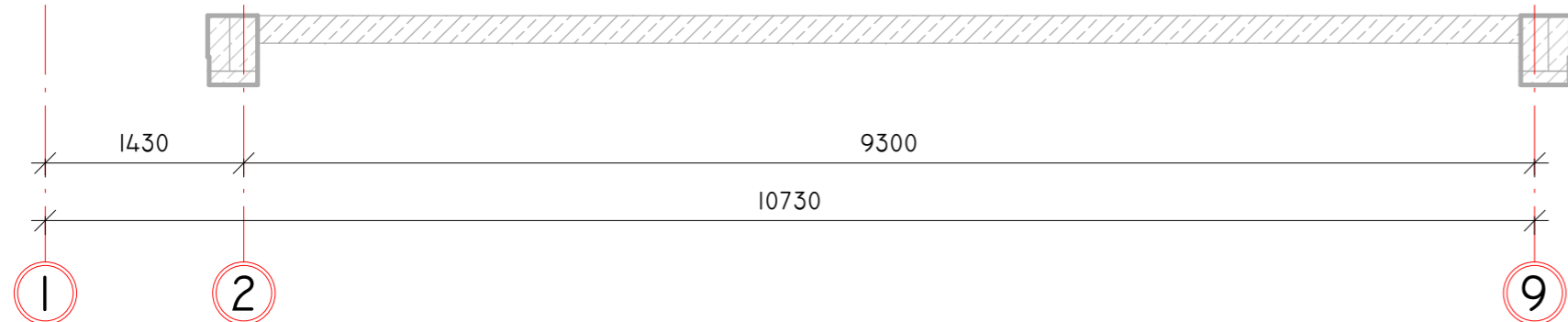
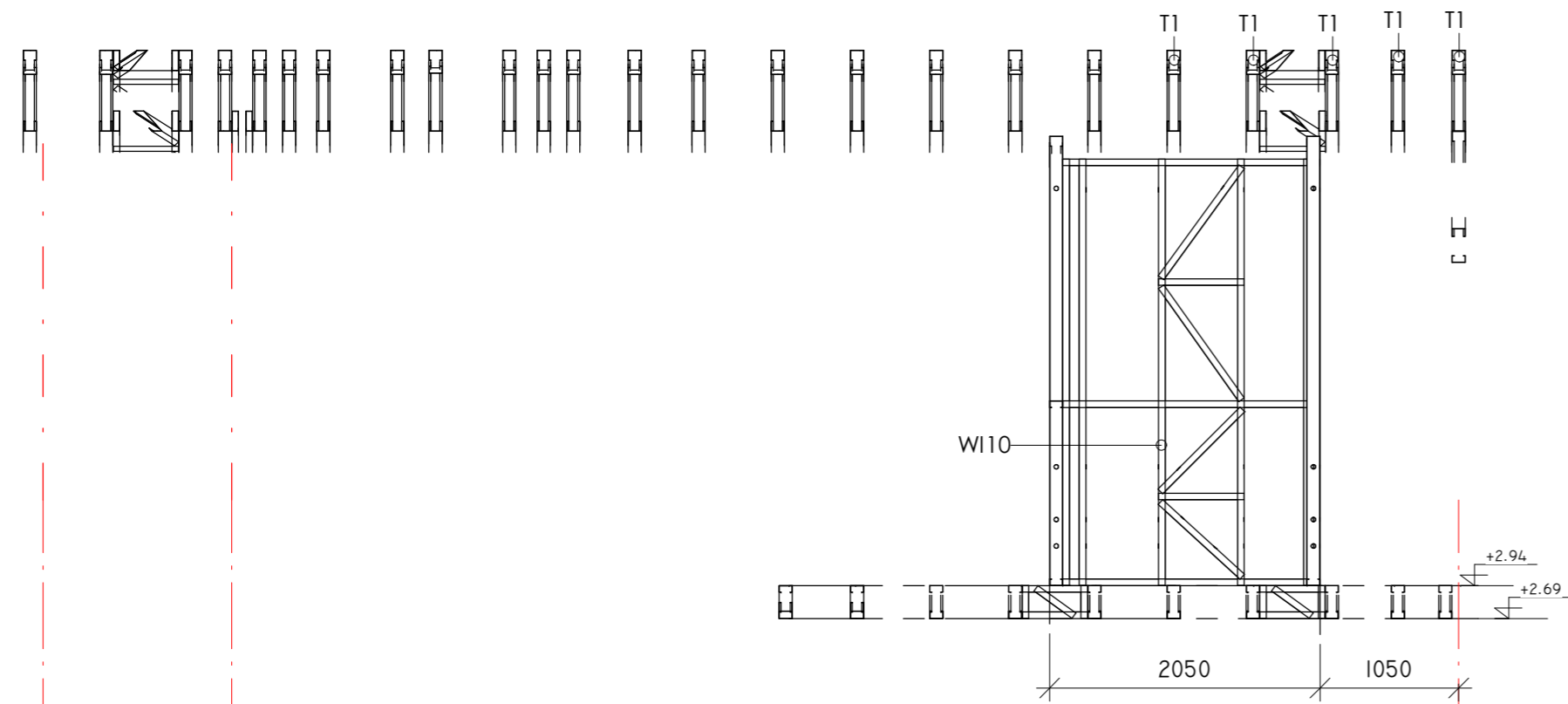


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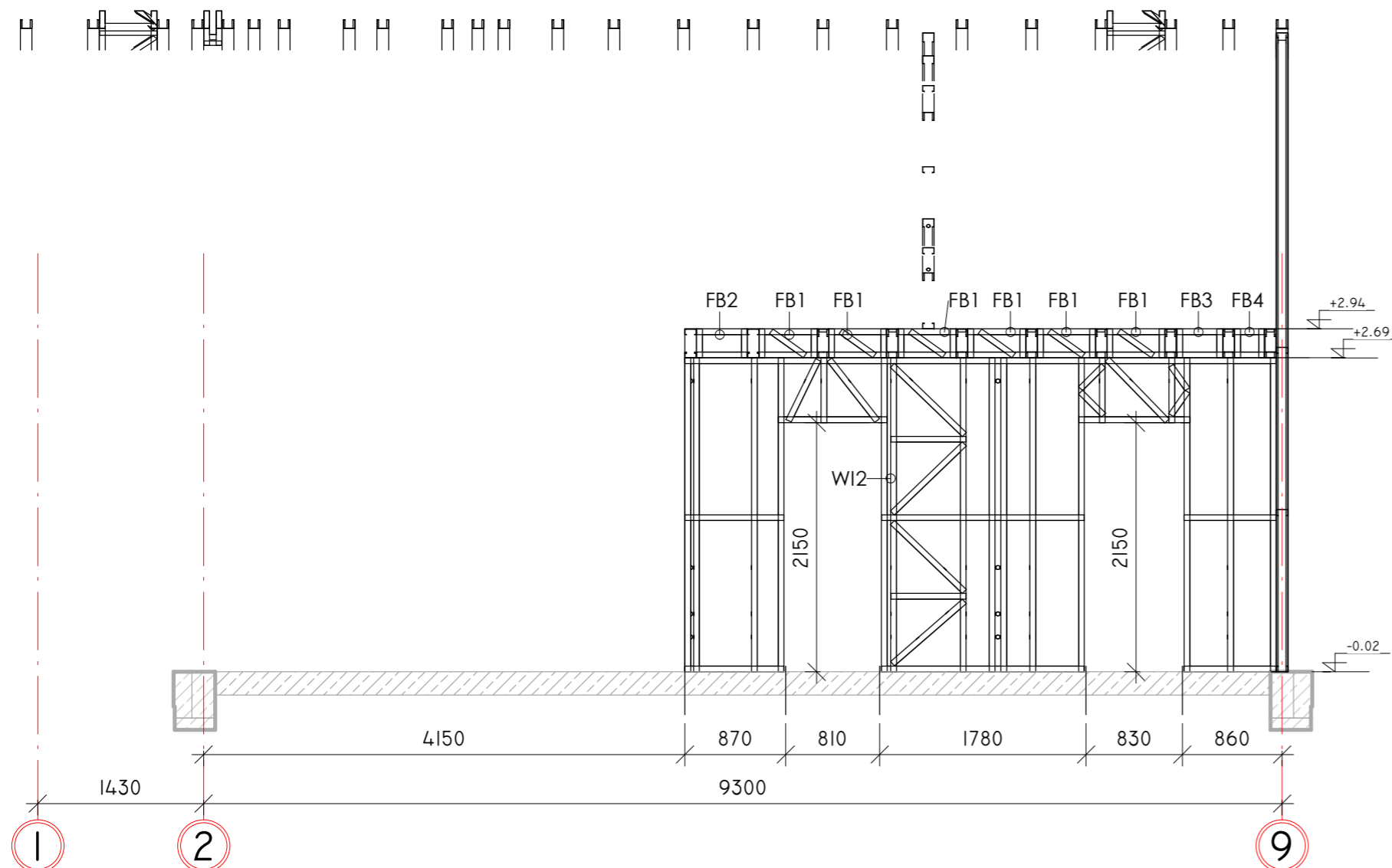


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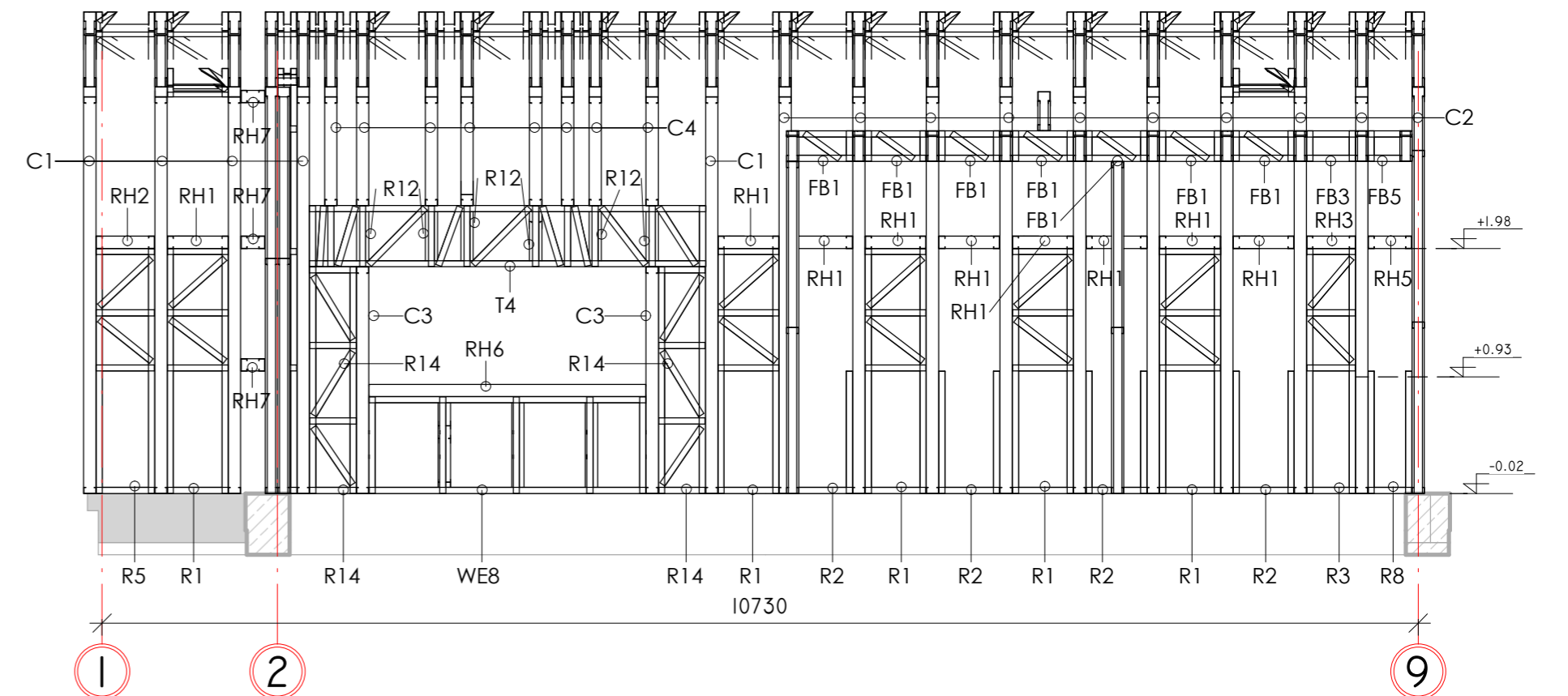
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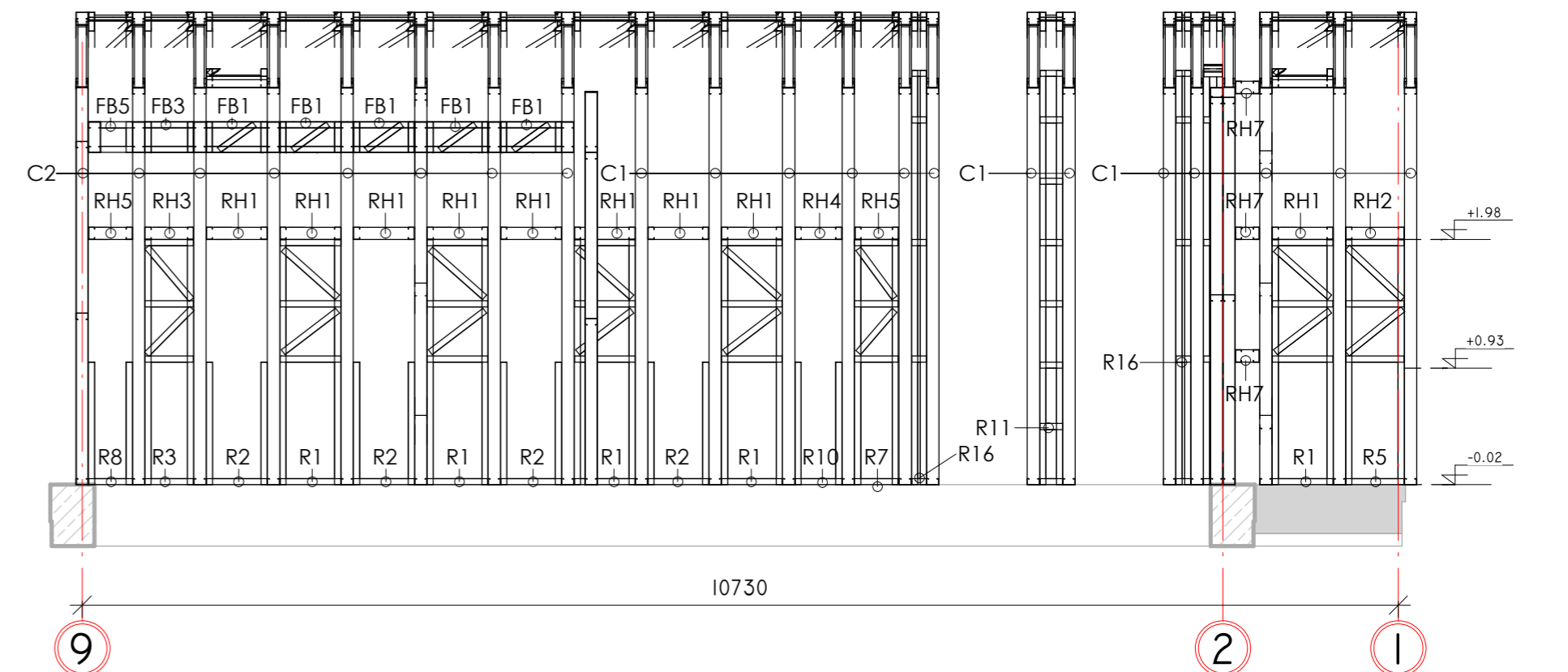
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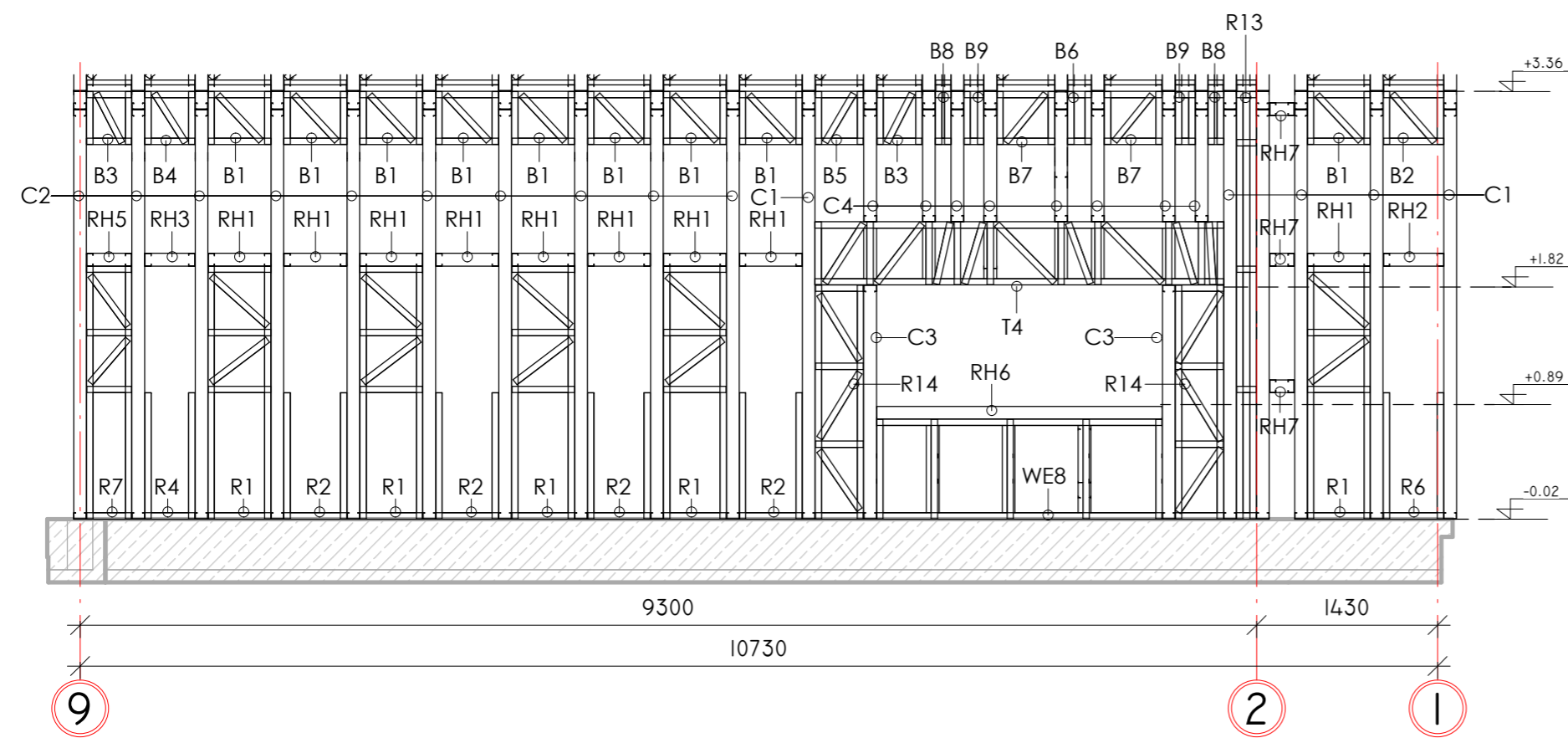


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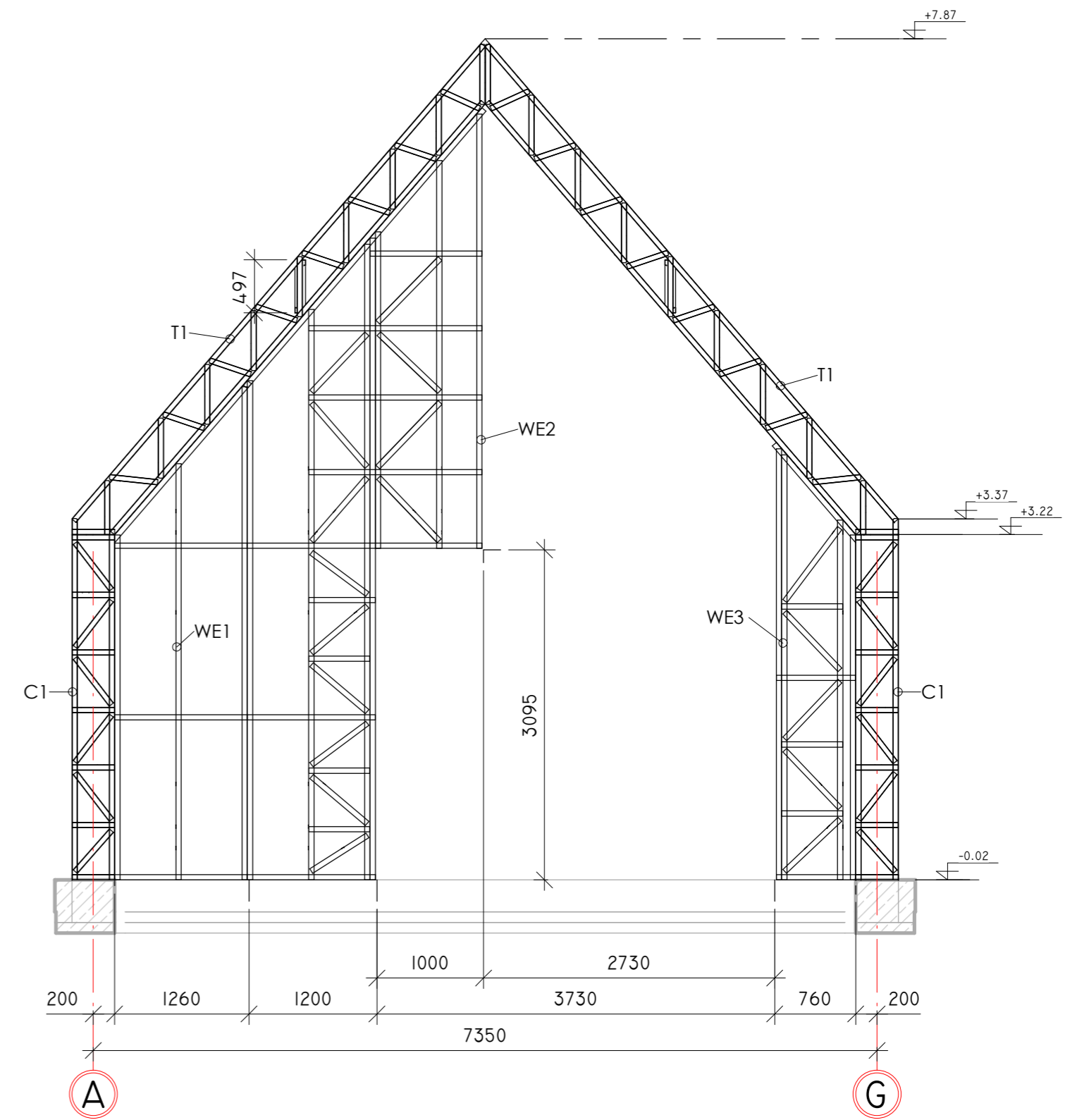


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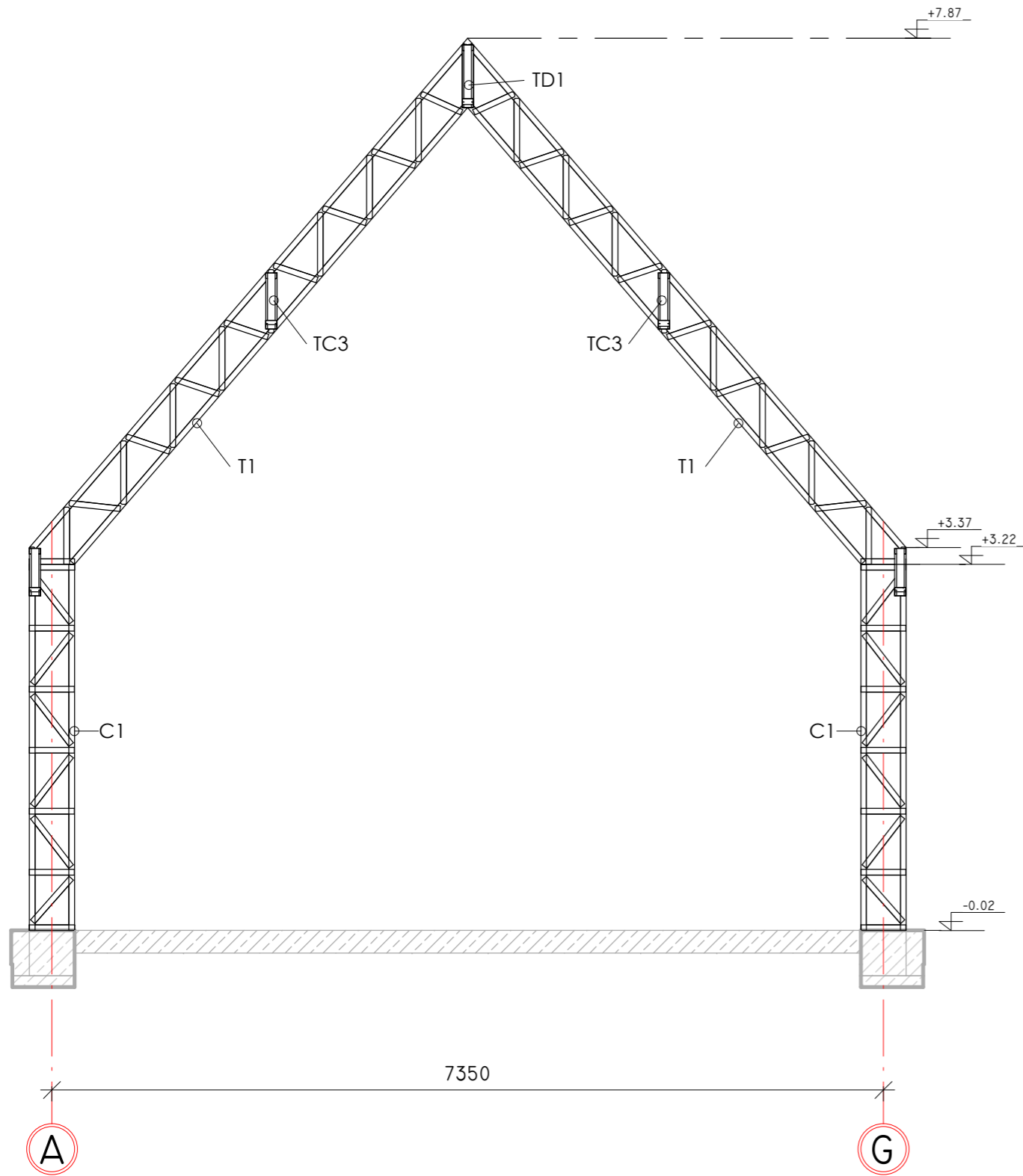
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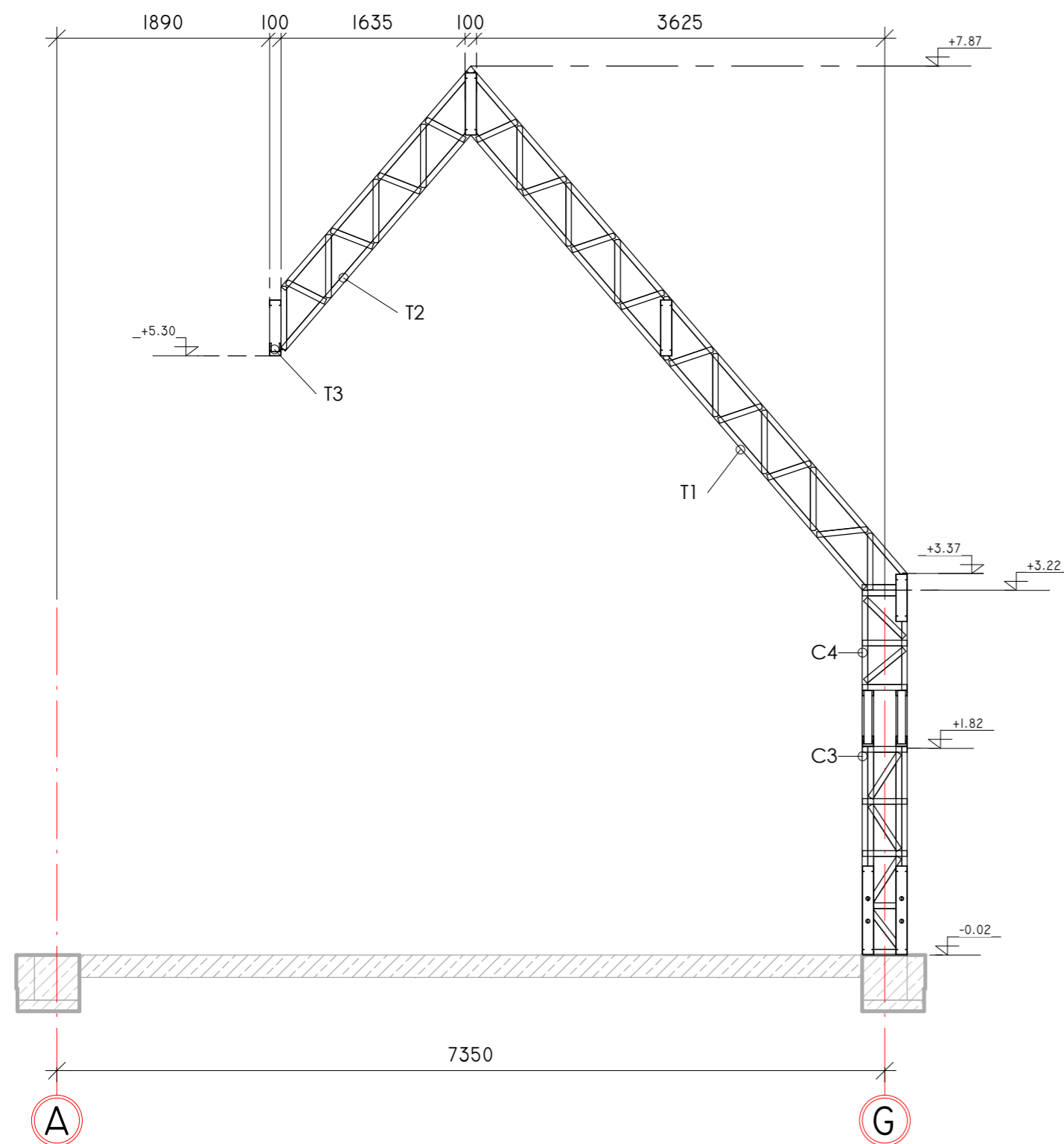


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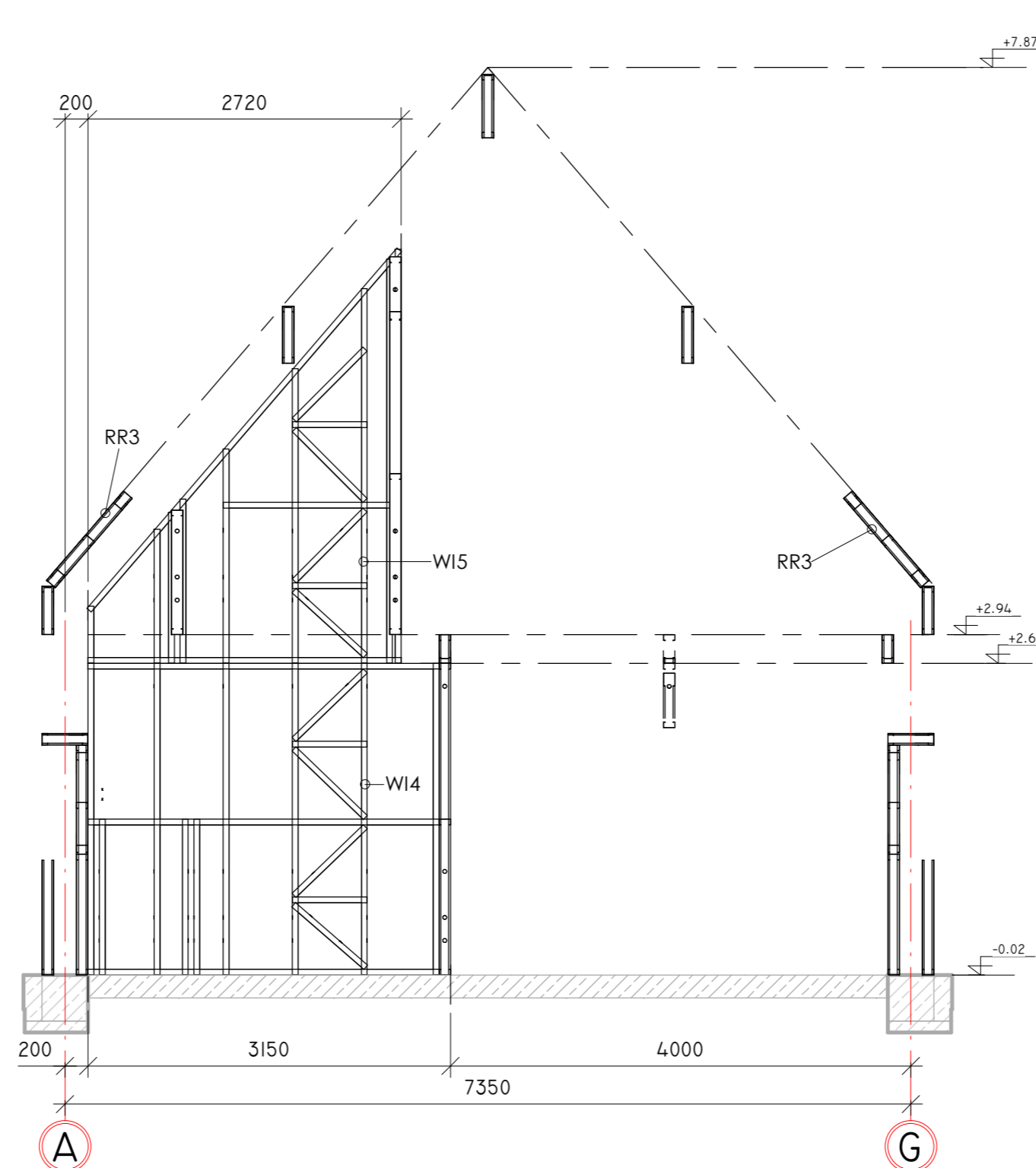


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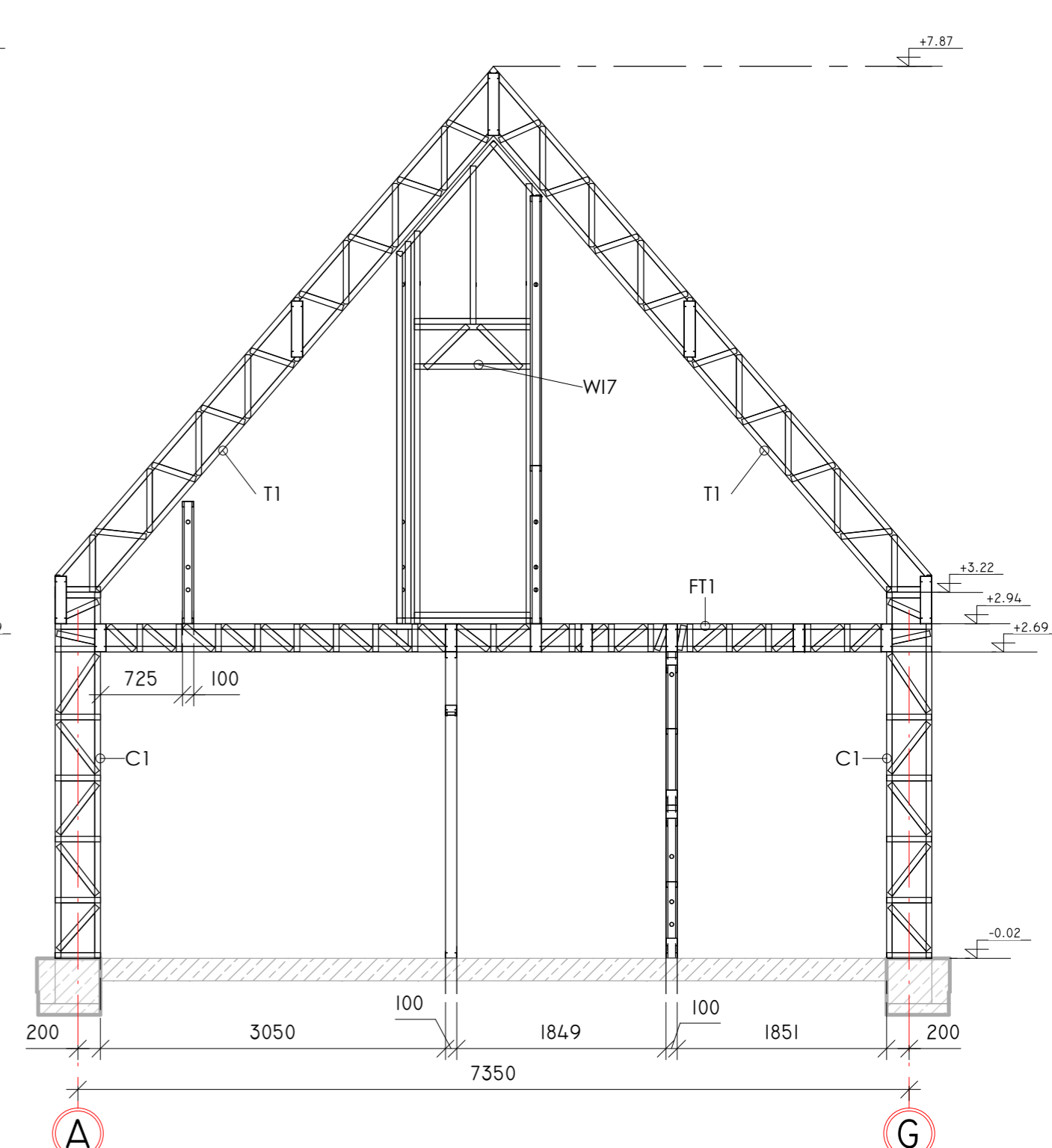
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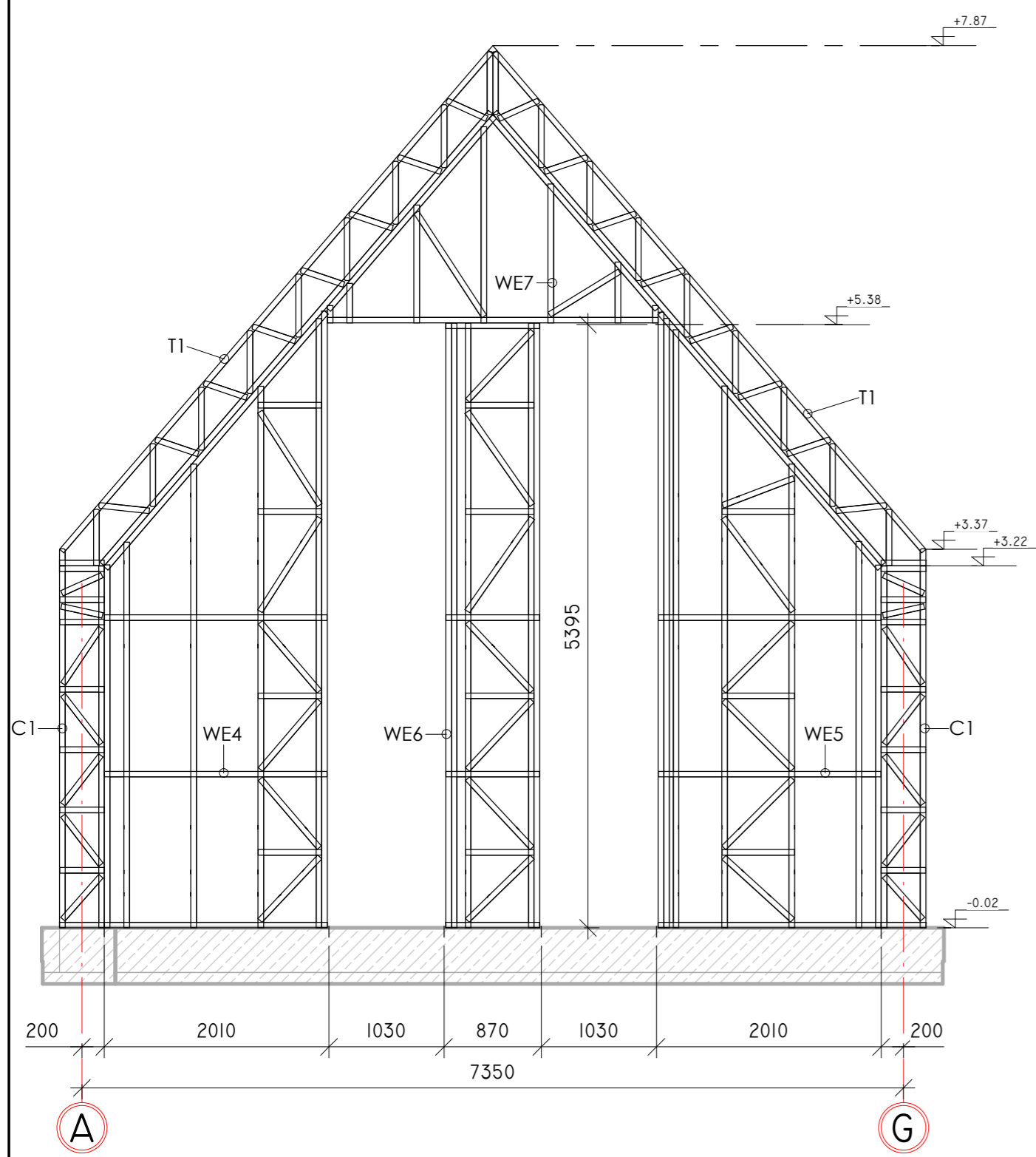


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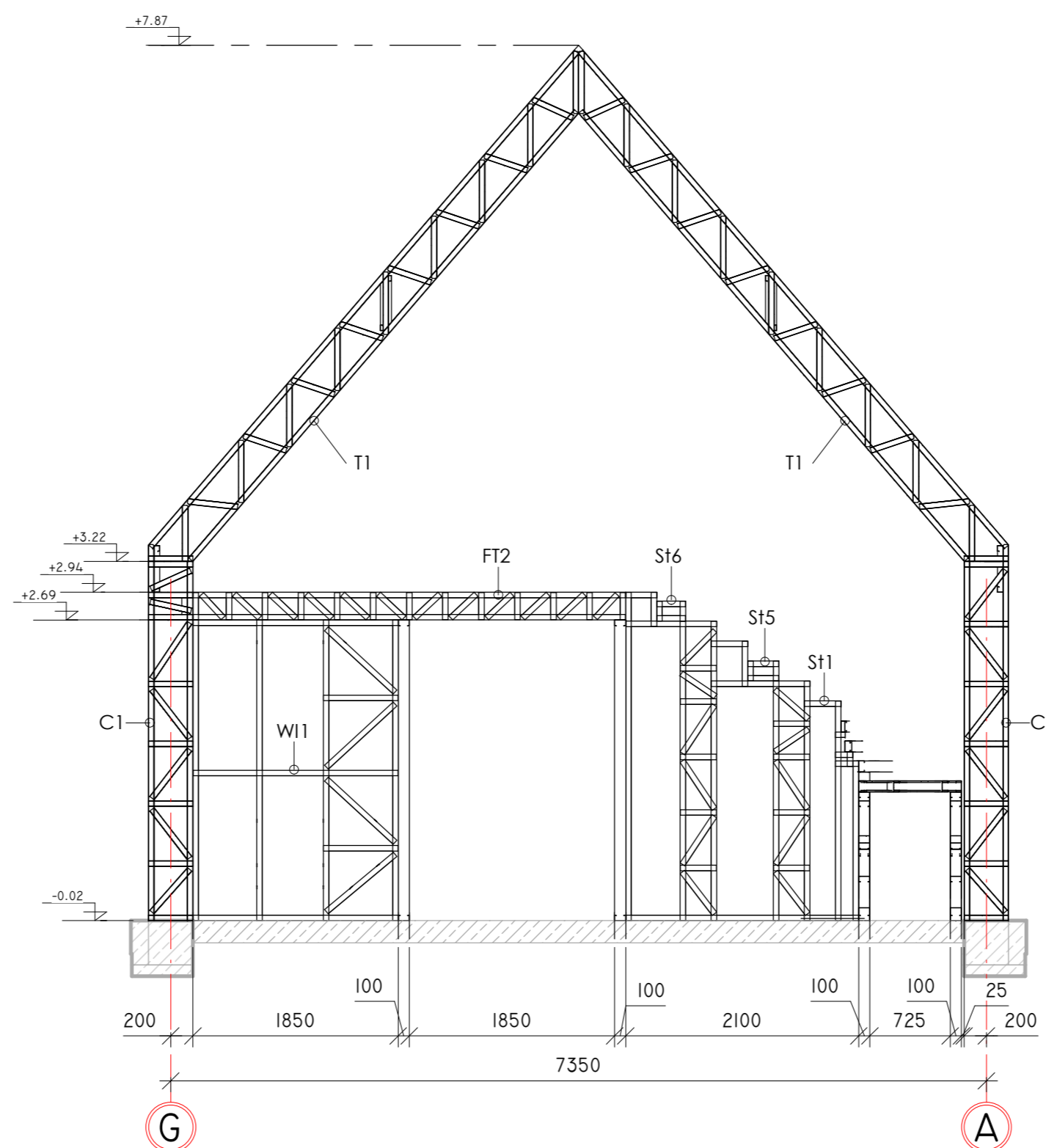


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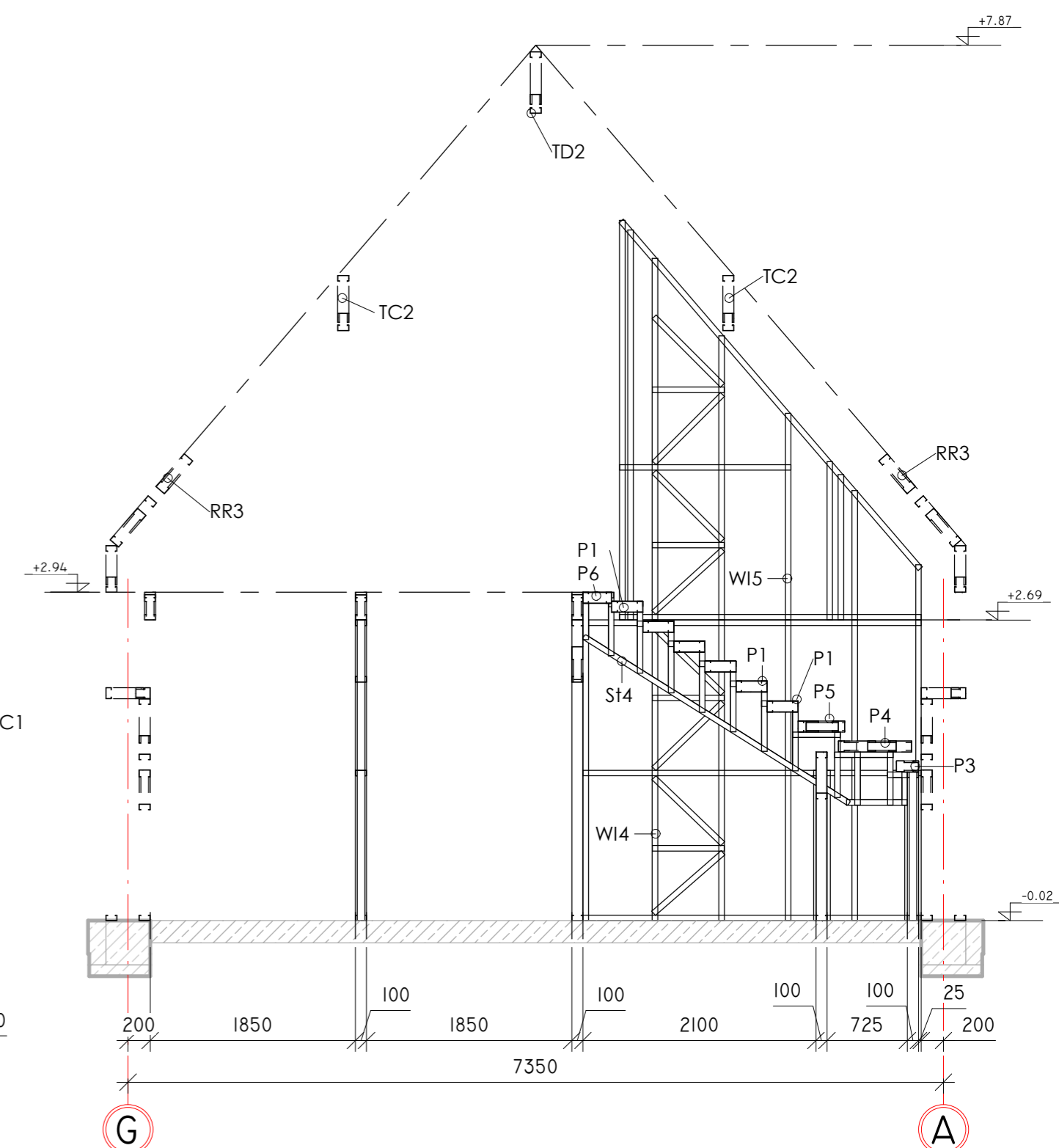
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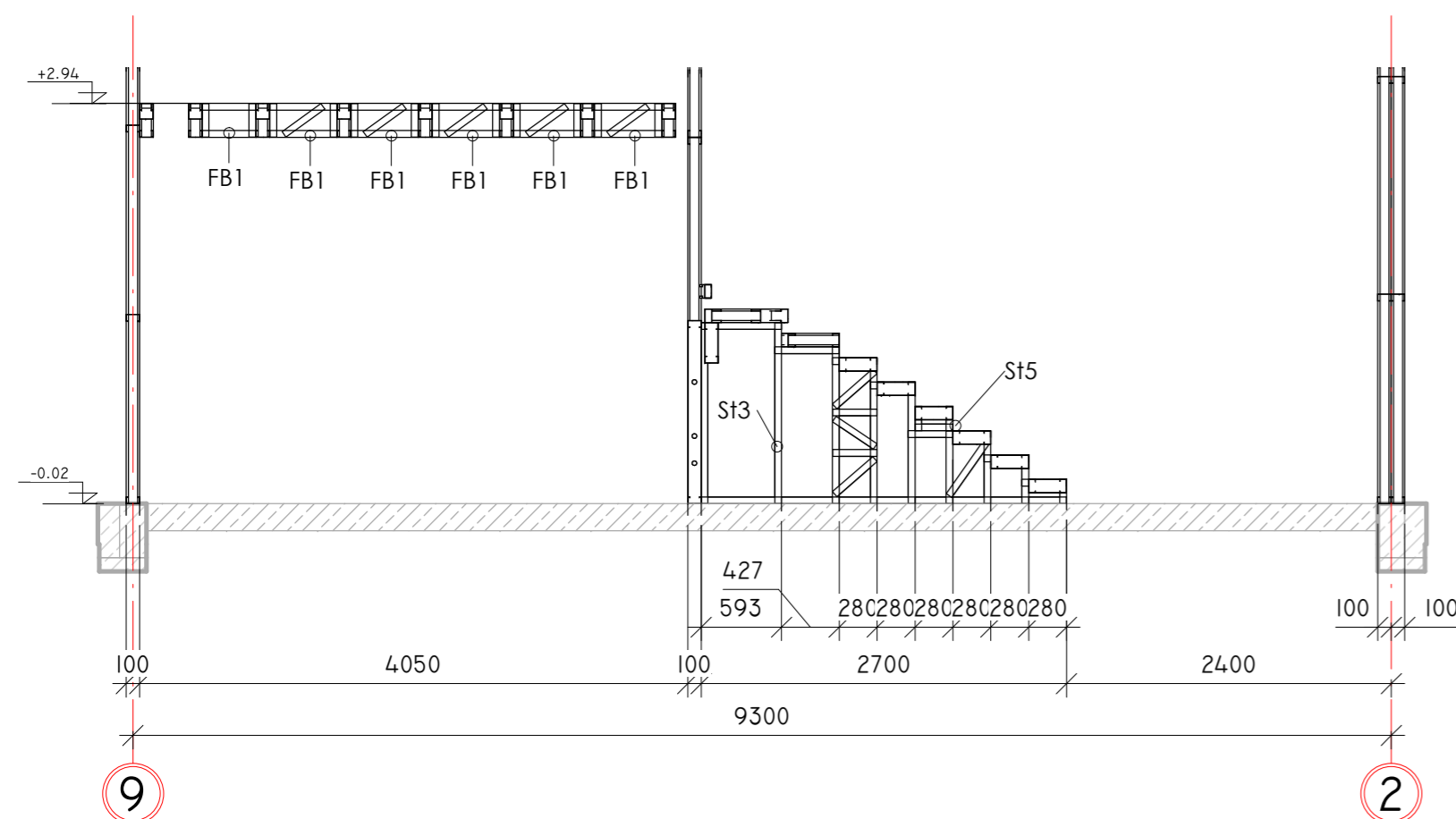
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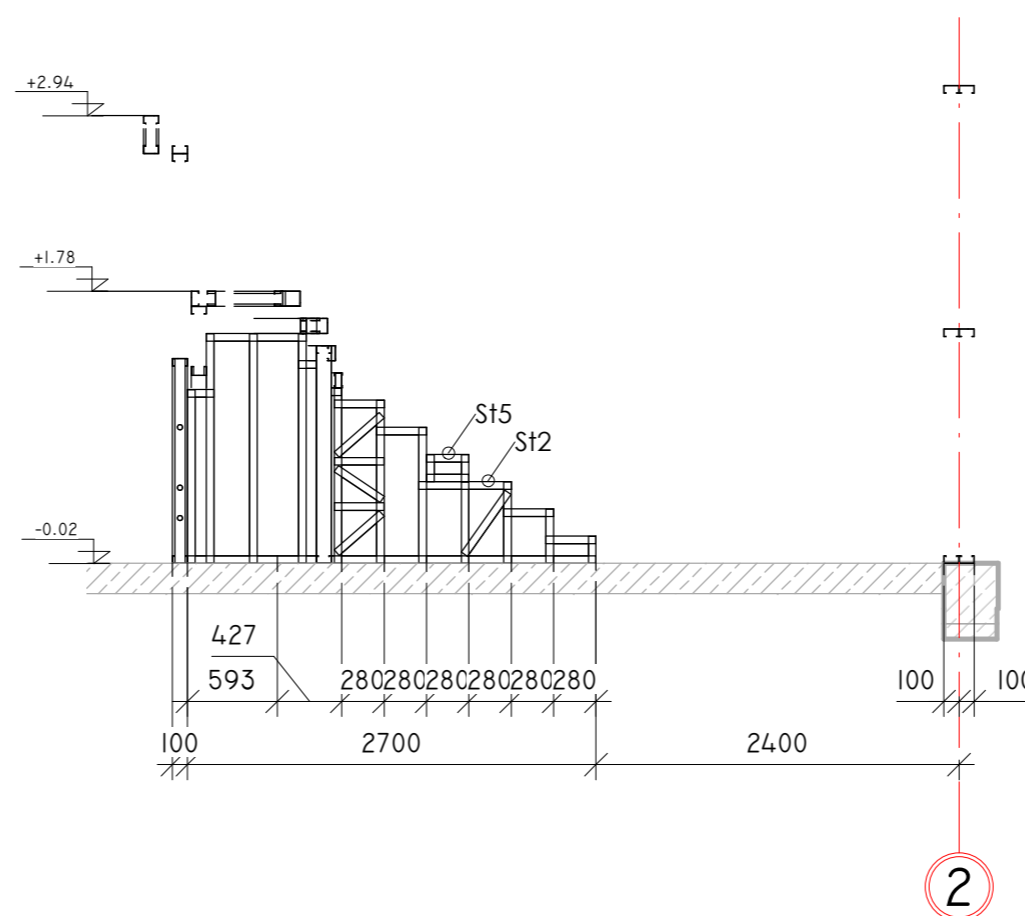
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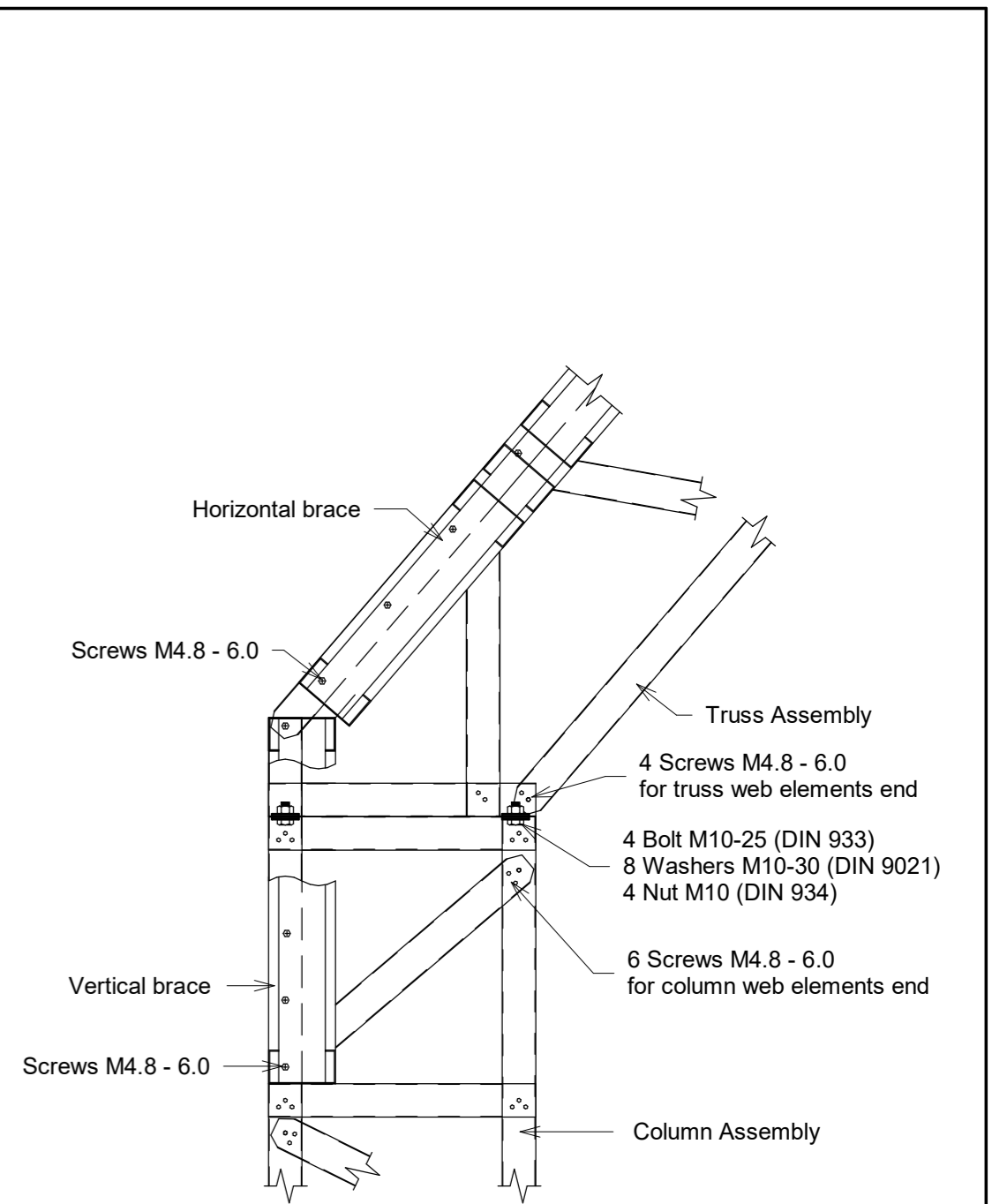
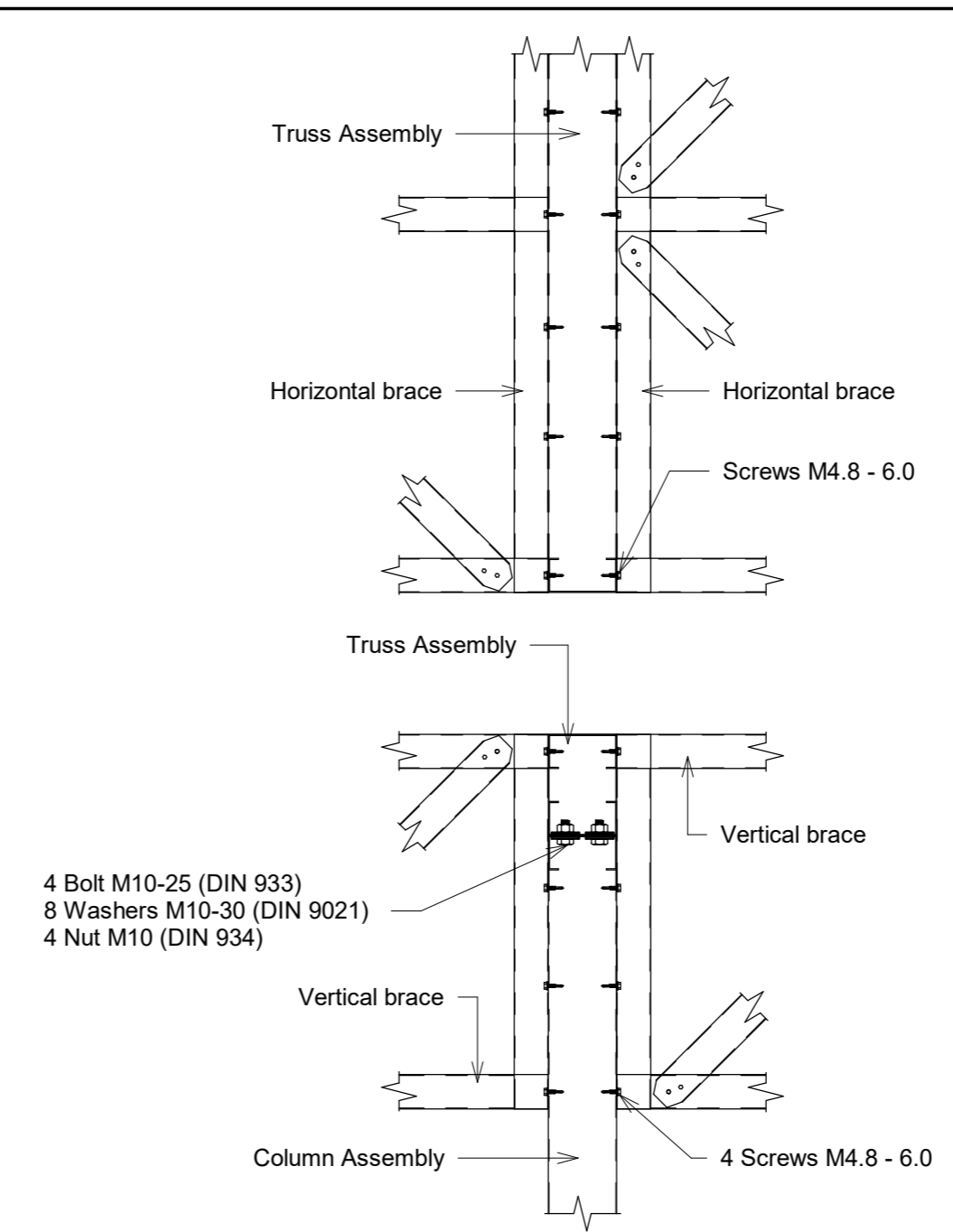
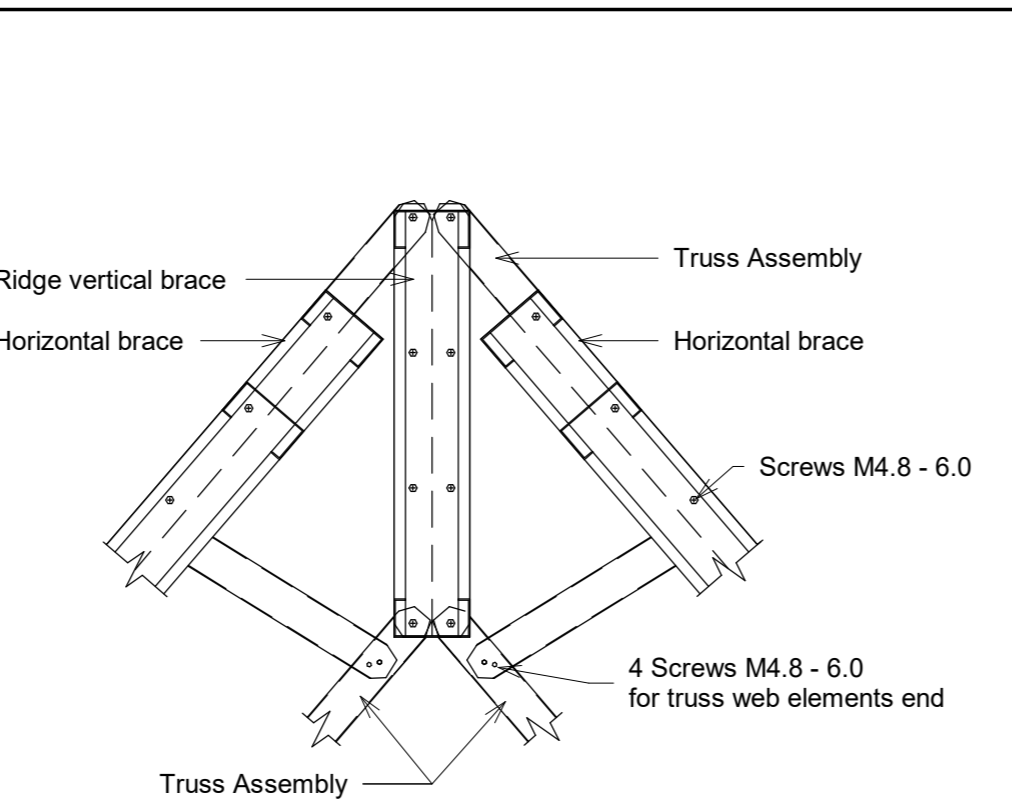
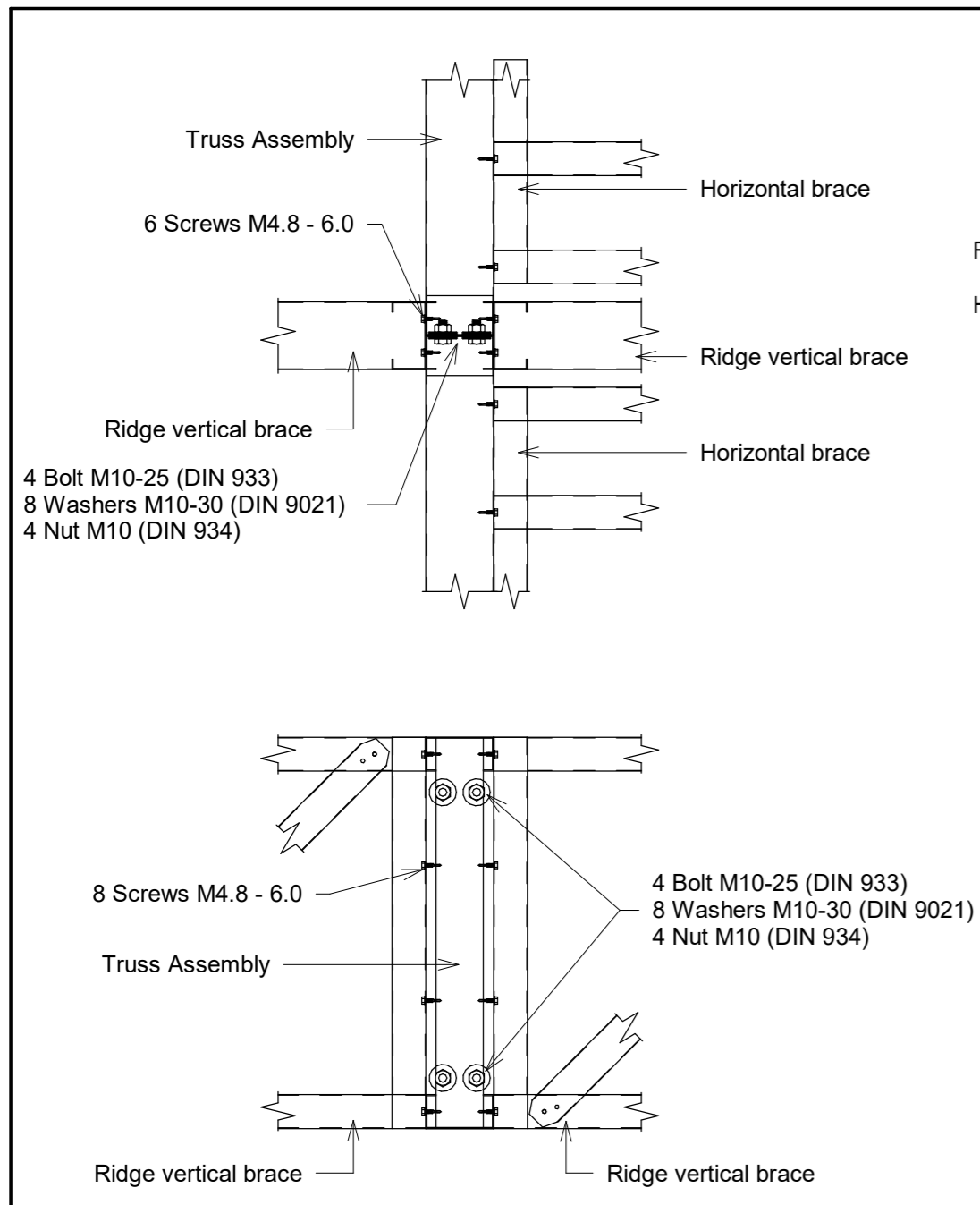


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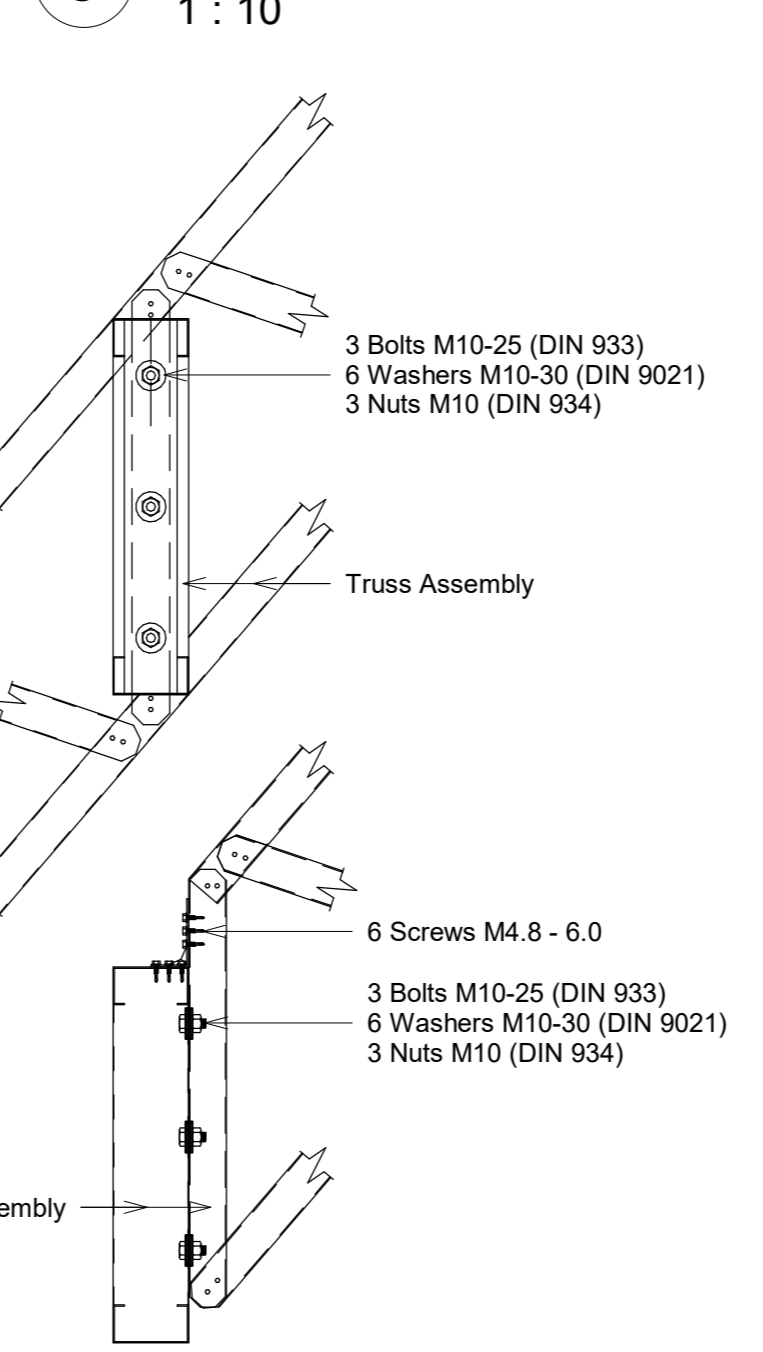
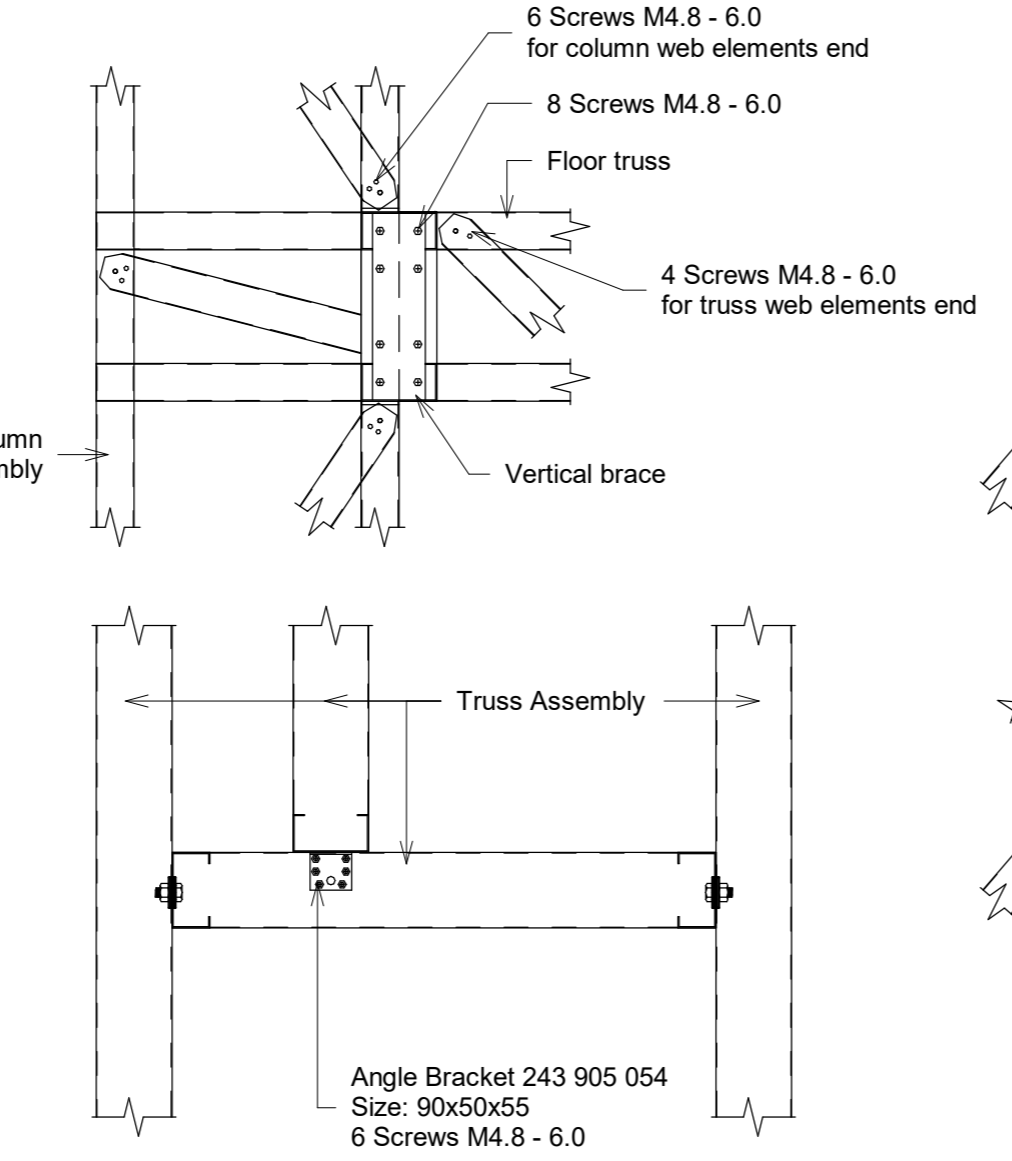
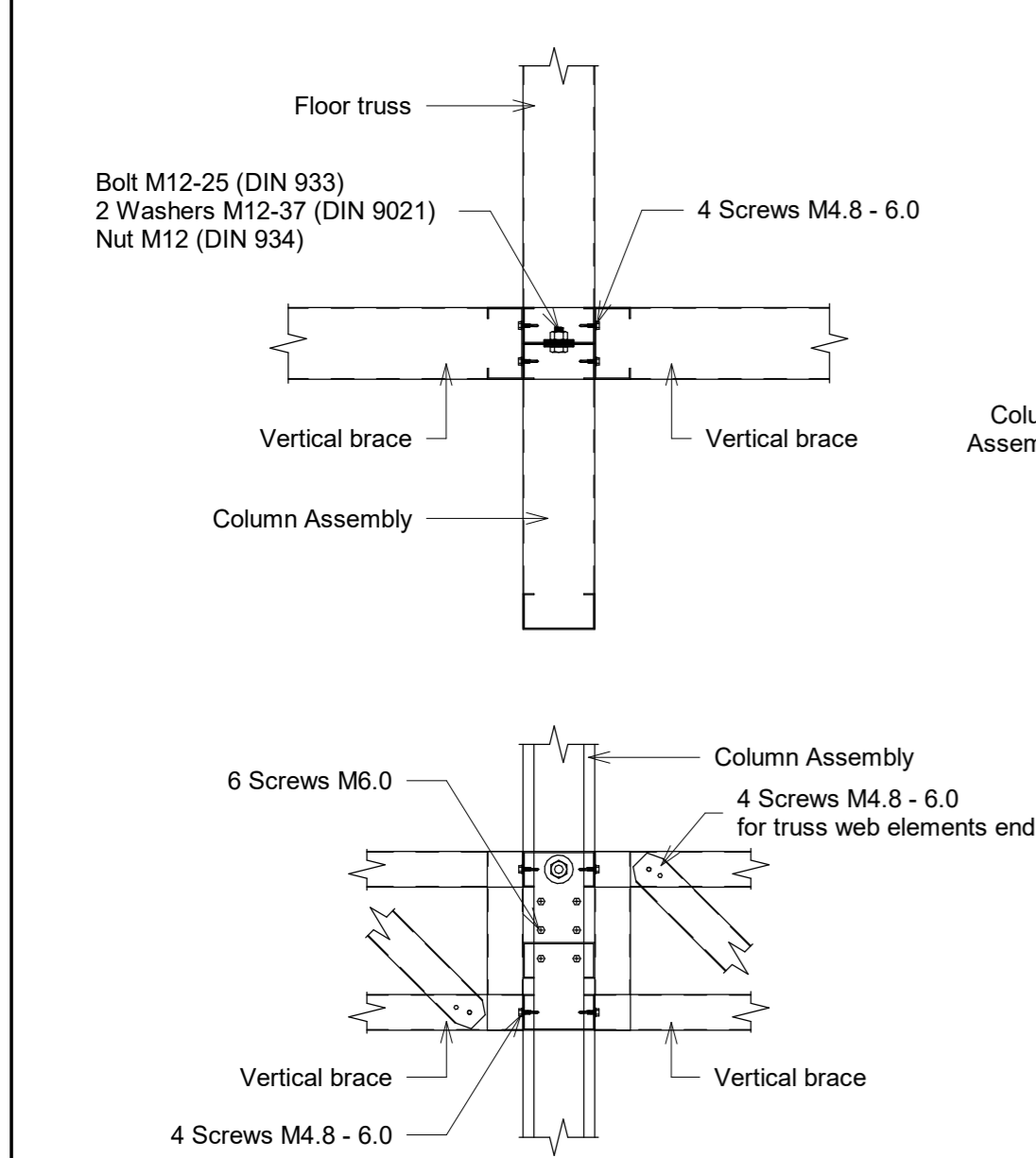
5 20
1 : 50

0	2023/06	For construction permit (competitoning) and construction
Issue	Issue date	Issue status and name of change (reason) (if applicable)
Qualif. doc. No.	Name of the project: THE SWEET CUPCAKE LOFT RESIDENTIAL (SINGLE APARTMENT) BUILDING BAUNHØJVEJ 4 6840 OKSBØL CONSTRUCTION PROJECT	
39 232	PV	Building number and name, title of the document: 01. RESIDENTIAL BUILDING SECTIONS 16-16 ... 18-18 M 1 : 50
39 233	PDV SK	
0527	ENV eksp.	
EN	Customer (builder): E. D.	Issue 0
		Sheet 16
		Total 132



1 Roof truss ridge connection detail
1:10

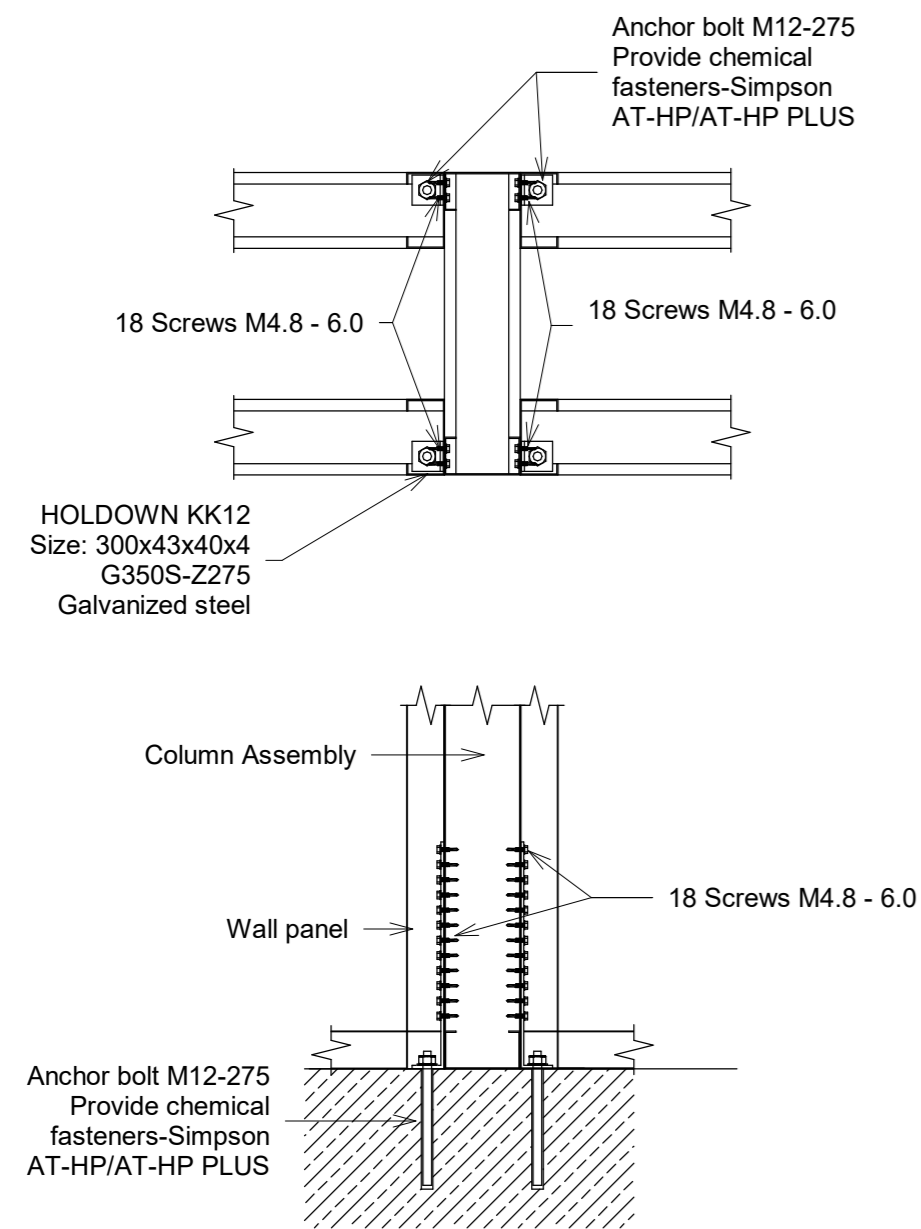
3 Roof truss to column connection detail
1:10



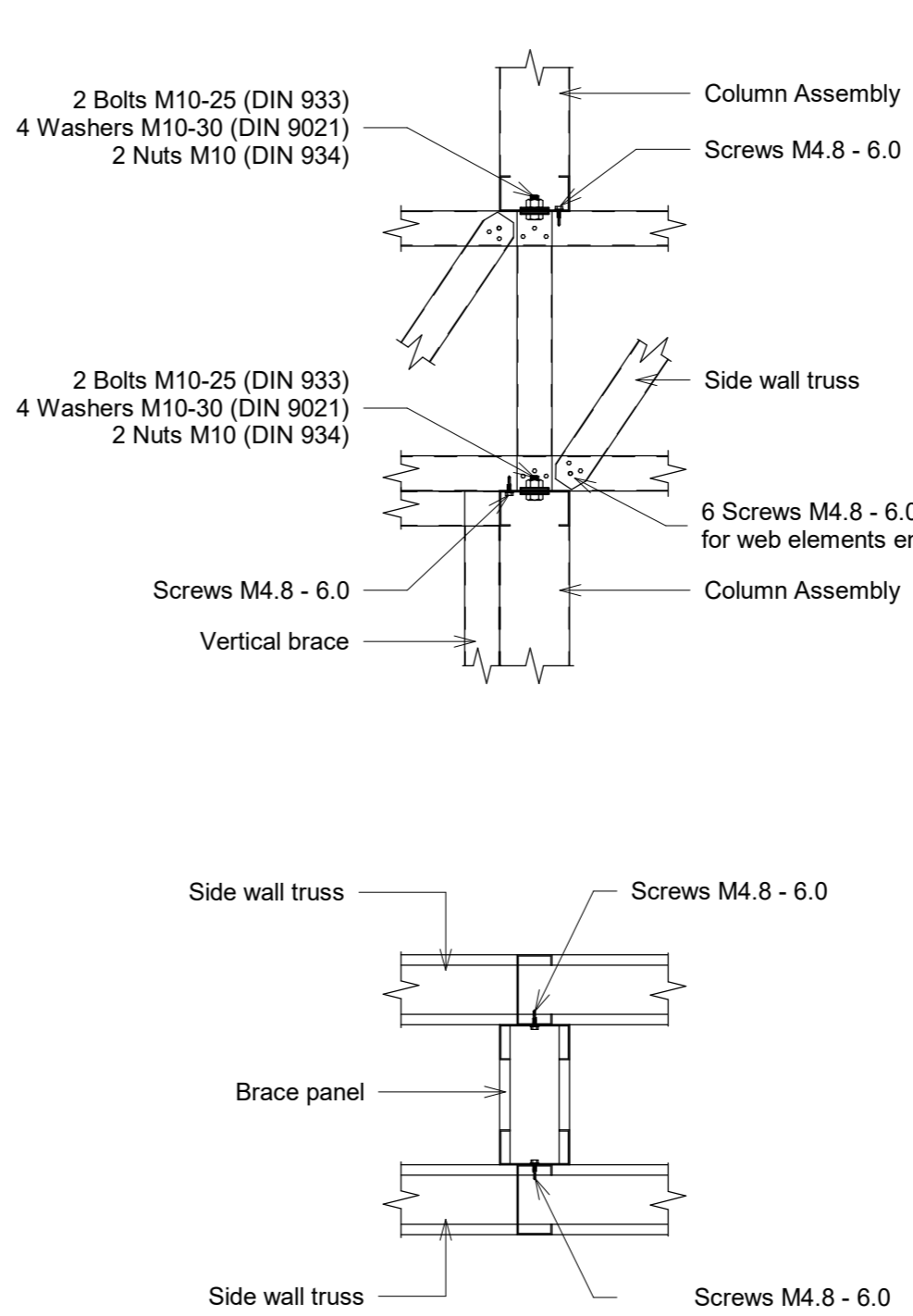
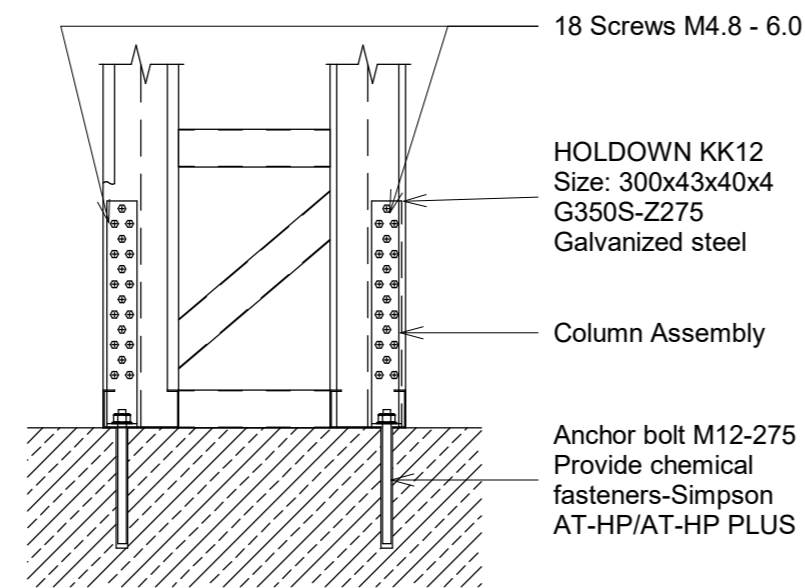
2 Floor truss to column connection detail
1:10

4 Roof truss to roof truss connection details
1:10

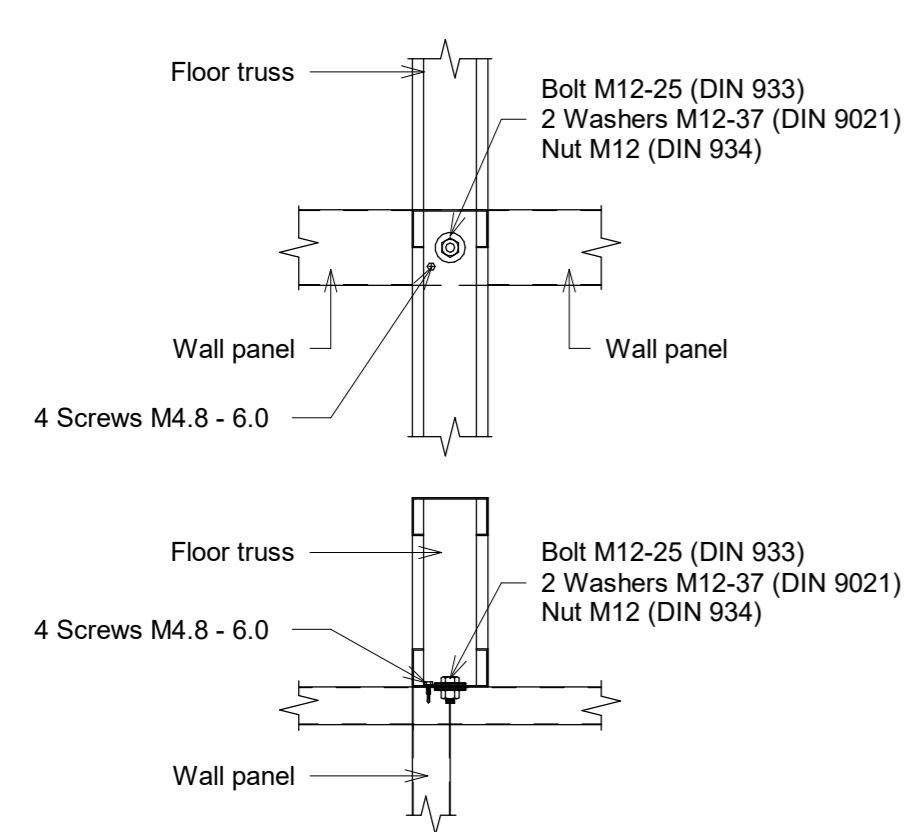
0	2023/06	For construction permit (competitoning) and construction
Issue	Issue date	Issue status and name of change (reason) (if applicable)
Qualif. doc. No.	Name of the project: THE SWEET CUPCAKE LOFT RESIDENTIAL (SINGLE APARTMENT) BUILDING BAIINHØJVEJ 4 6840 OKSBØL CONSTRUCTION PROJECT	
39 232	PV	Building number and name, title of the document: 01. RESIDENTIAL BUILDING DETAILS OF TRUSSES M 1:10
39 233	PDV SK	
0527	ENV eksp.	
EN	Customer (builder): E. D.	Issue 0
		Sheet 17
		Total 132



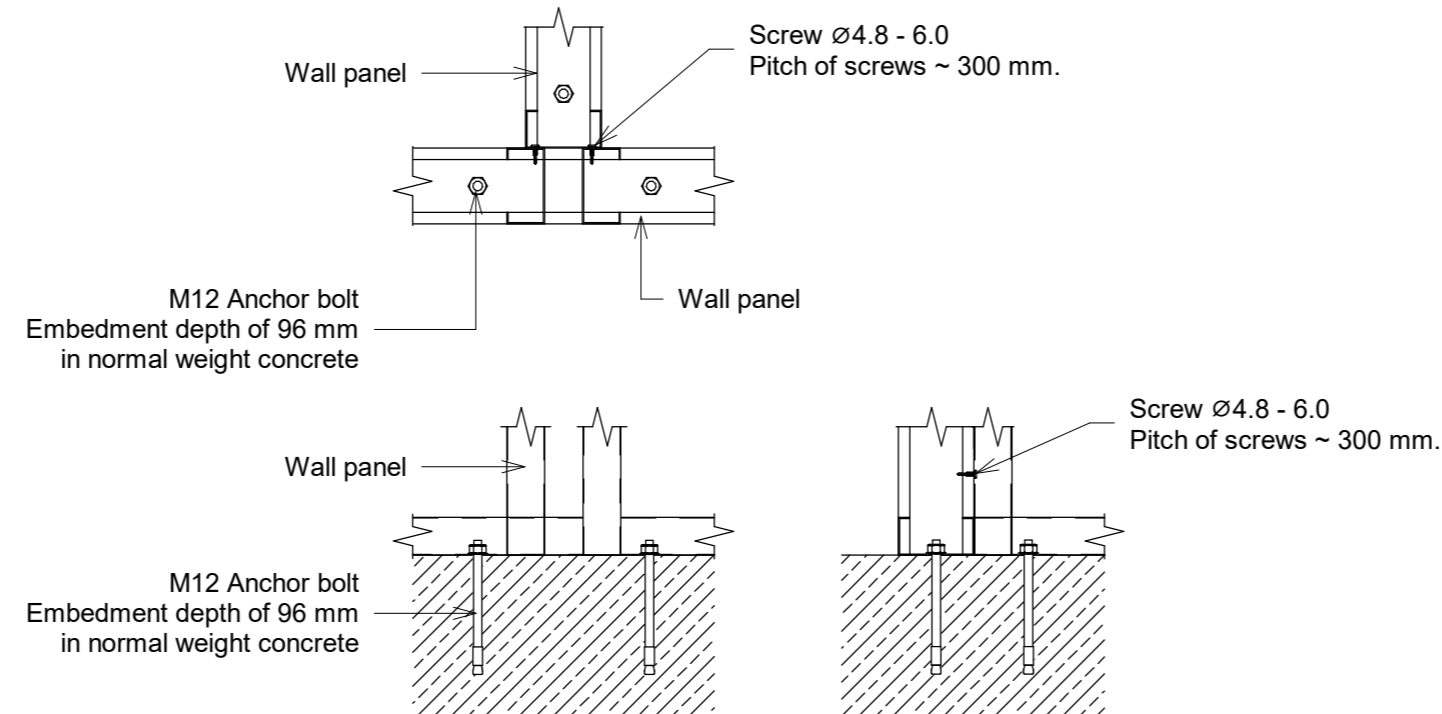
1 Column connection detail
1 : 10



4 Roof truss connection details
1 : 10



2 Floor truss to interior wall connection detail
1 : 10



3 Interior walls connection detail
1 : 10

0	2023/06	For construction permit (competitoning) and construction
Issue	Issue date	Issue status and name of change (reason) (if applicable)
Qualif. doc. No.	Name of the project: THE SWEET CUPCAKE LOFT RESIDENTIAL (SINGLE APARTMENT) BUILDING BAUNHØJVEJ 4 6840 OKSBØL CONSTRUCTION PROJECT	
39 232	PV	Building number and name, title of the document: 01. RESIDENTIAL BUILDING DETAILS OF WALLS M 1 : 10
39 233	PDV SK	
0527	ENV eksp.	
EN	Customer (builder): E. D.	Issue 0
		Sheet 18
		Total 132