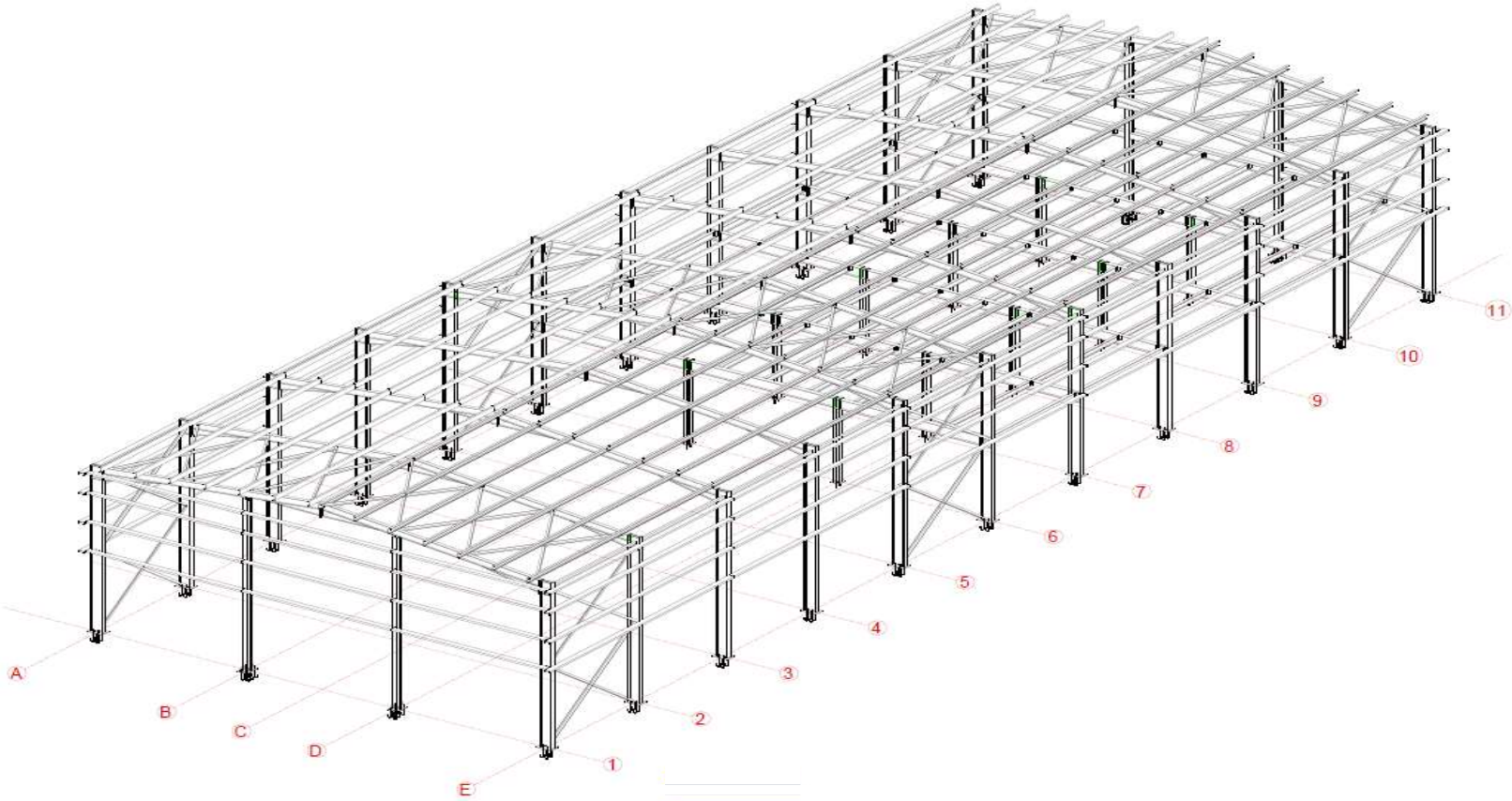


SPANIX ENGINEERING

International Engineering Production Support



Tekla Structures | BIM Coordination | Fabrication Drawings



About Spanix Engineering

Spanix Engineering provides structural BIM, steel detailing, reinforcement detailing, and engineering production support for international projects.

Our team supports consultants, contractors, and fabrication companies through organized BIM workflows, shop drawings, Tekla modeling, and production-ready engineering deliverables.

Core Services

- Steel Detailing
- Tekla Modeling
- Reinforcement Detailing
- BIM Coordination
- Shop Drawings

Software

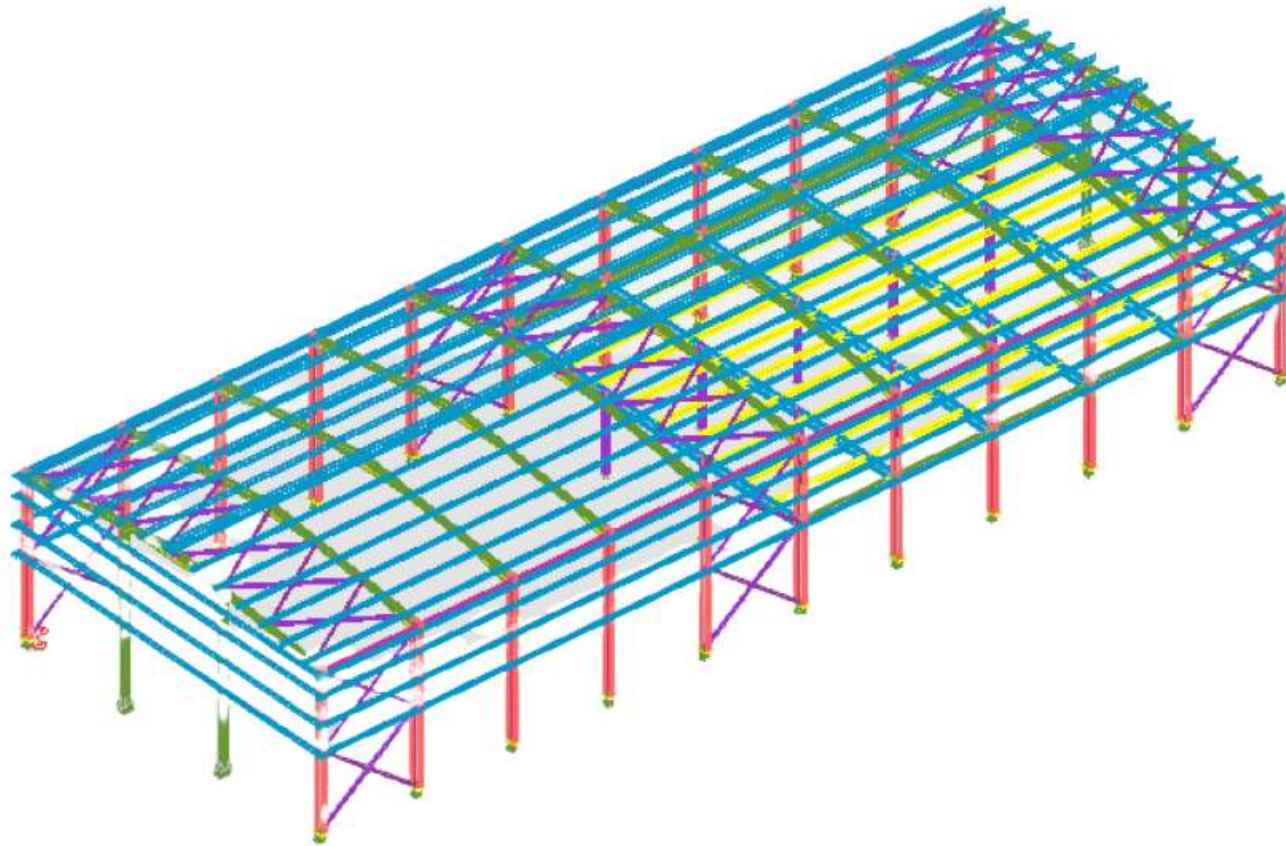
- Tekla Structures
- Autodesk Revit
- AutoCAD
- Navisworks
- Civil 3D

Project Support

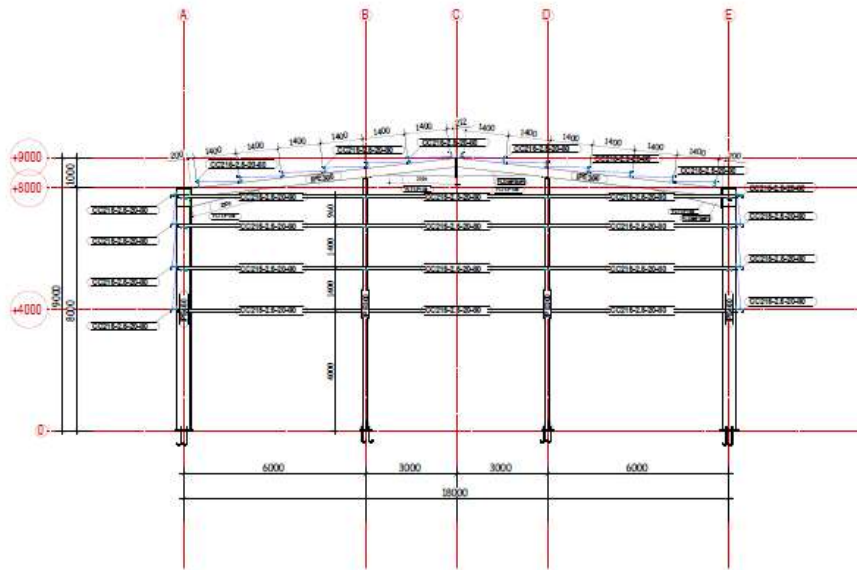
- Structural Steel
- Reinforced Concrete
- Infrastructure
- Fabrication Support
- BIM Workflows

3D Structural BIM Model

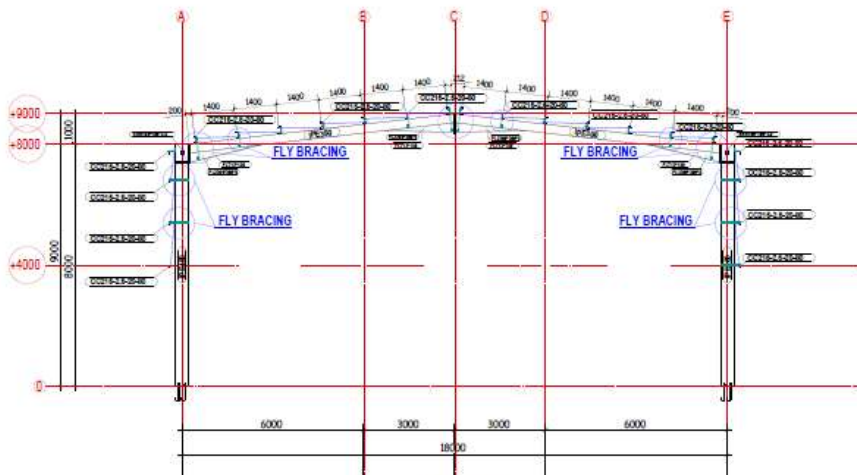
Steel Hangar – Tekla Structures Workflow



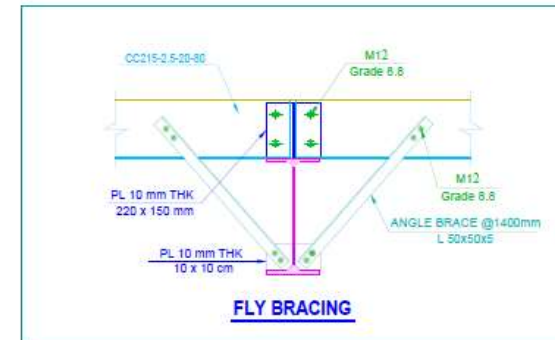
Structural Steel | BIM Coordination | Fabrication Workflow



GRID 01

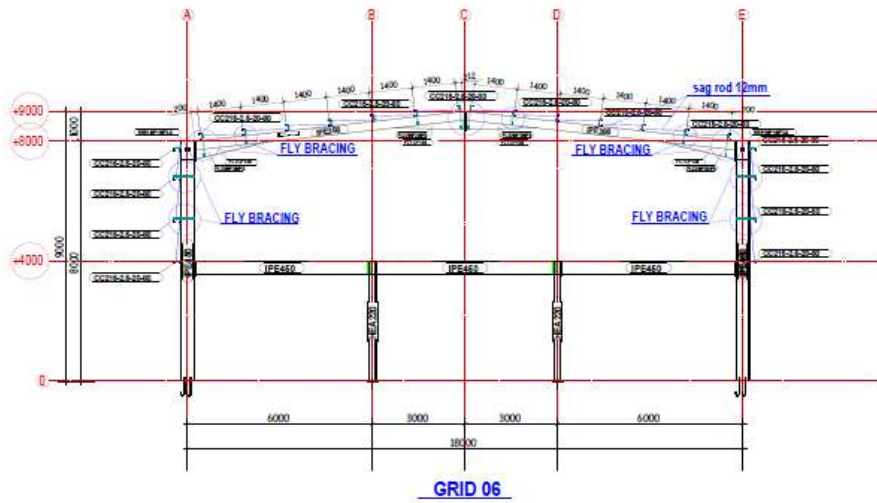


GRID 02

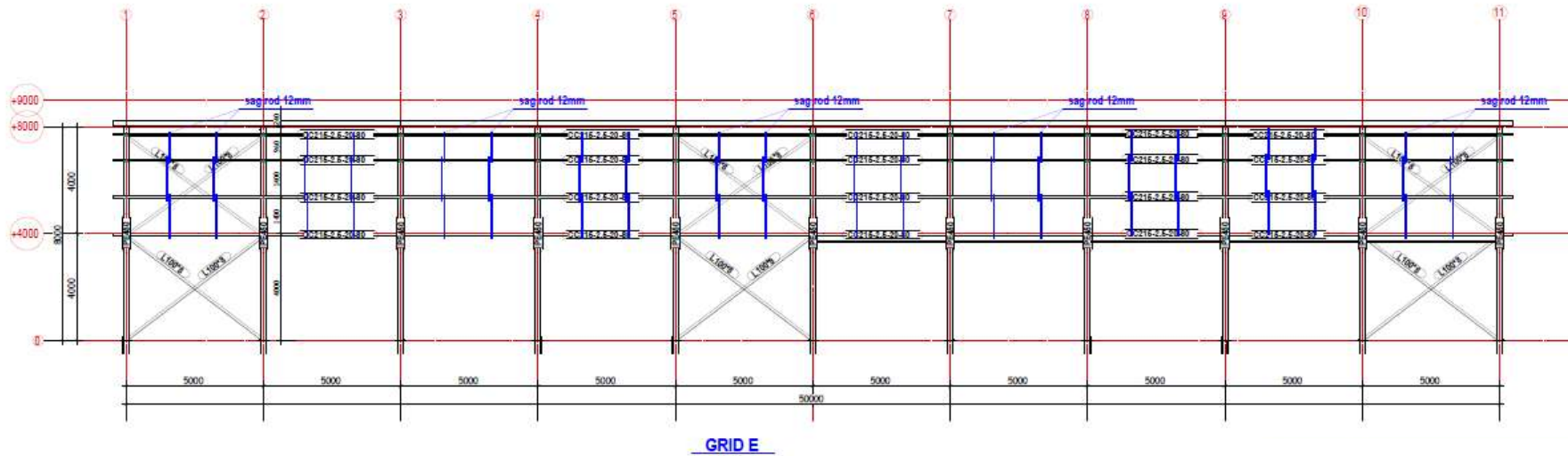
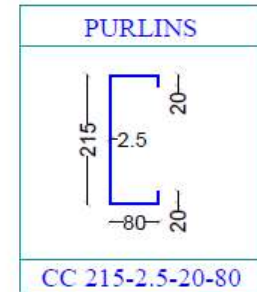


NOTE:-

- 1) ALL DIMENSIONS ARE IN MILLIMETER.
- 2) ALL STEEL ELEMENTS (PLATES AND RODE AND ANCHOR BOLTS) GRADE S275JR.
- 3) ALL BOLTS ARE IN GRADE 8.8 .

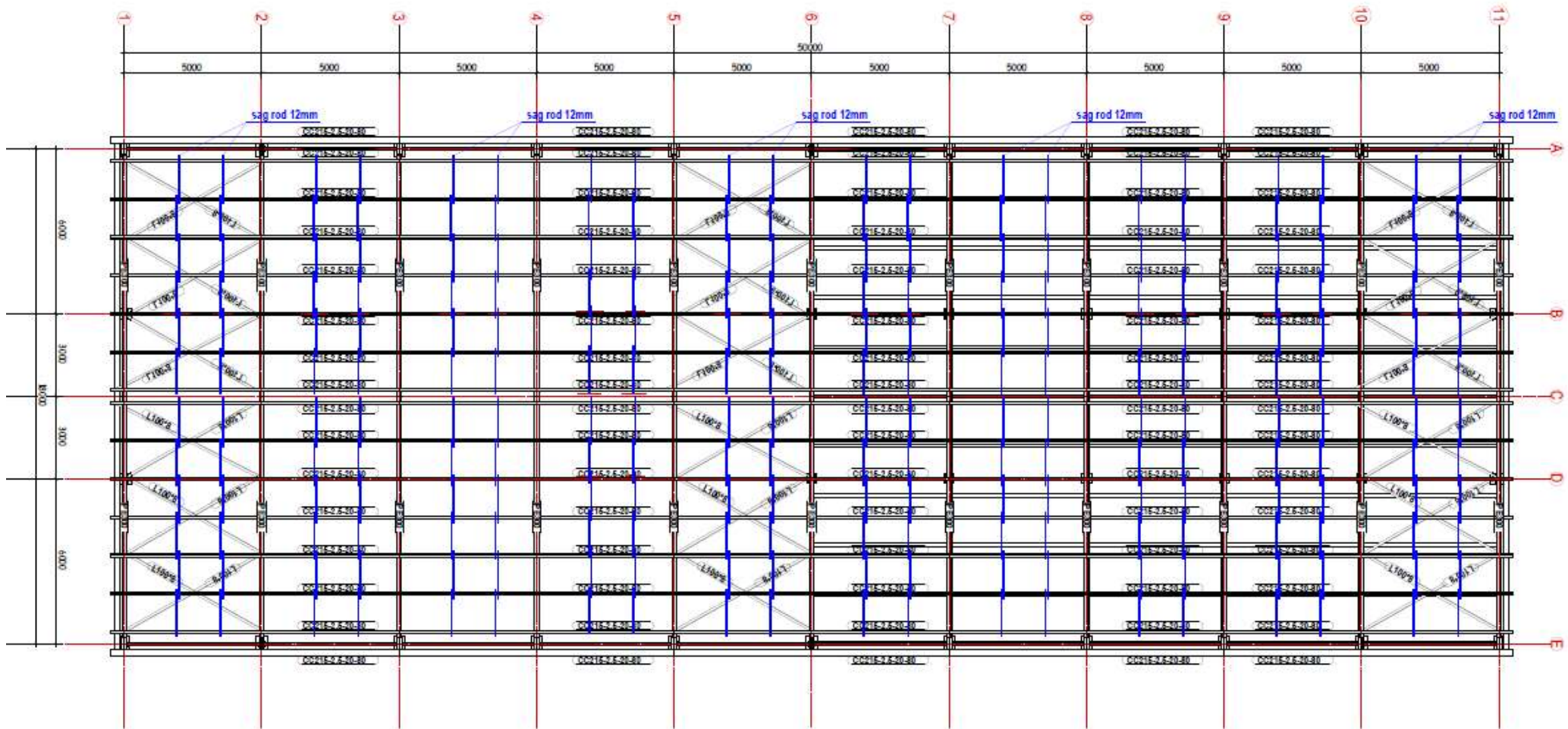


Sag rod 12mm

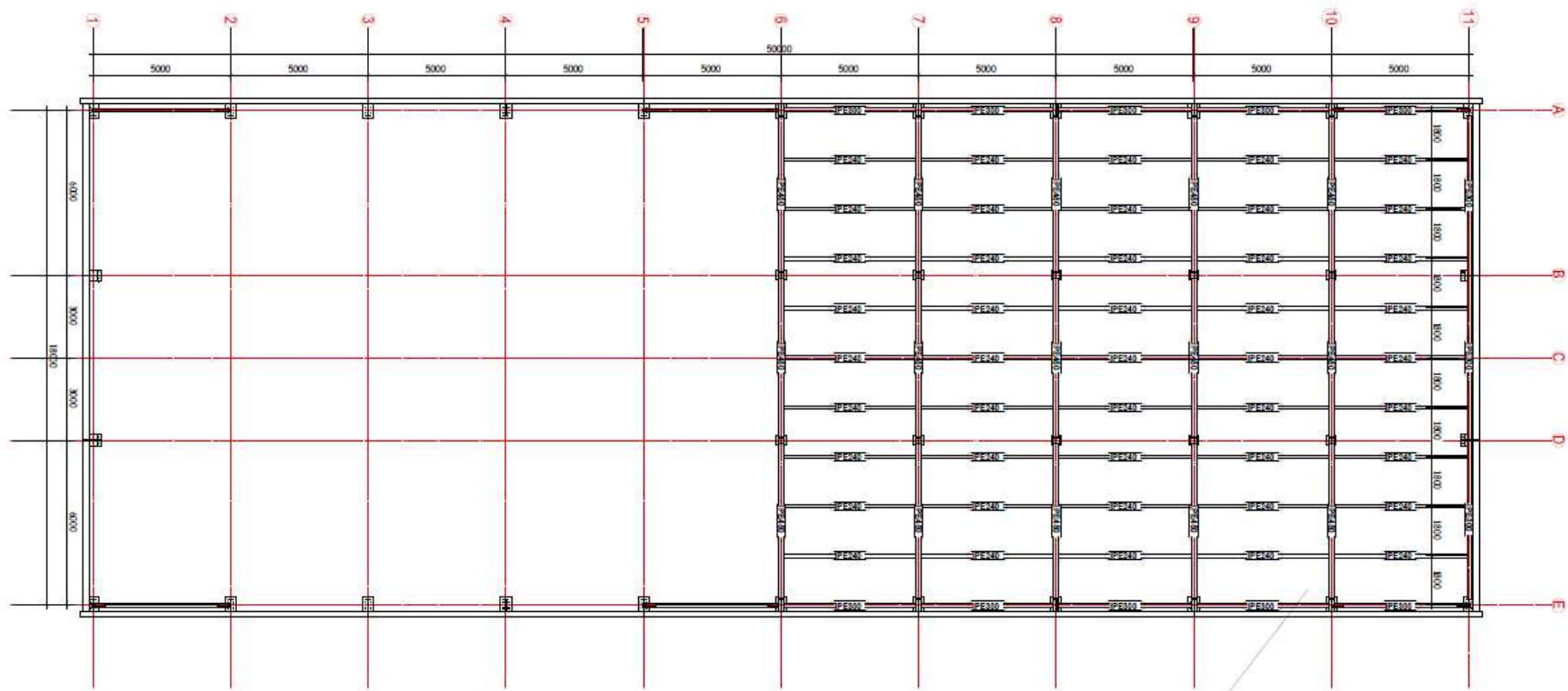


NOTE:

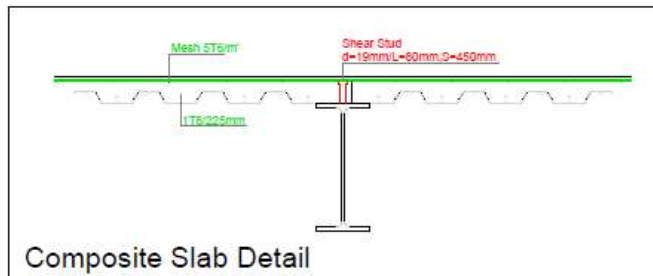
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- 3) ALL BOLTS ARE IN GRADE 8.



PLAN VIEW AT +9.00m

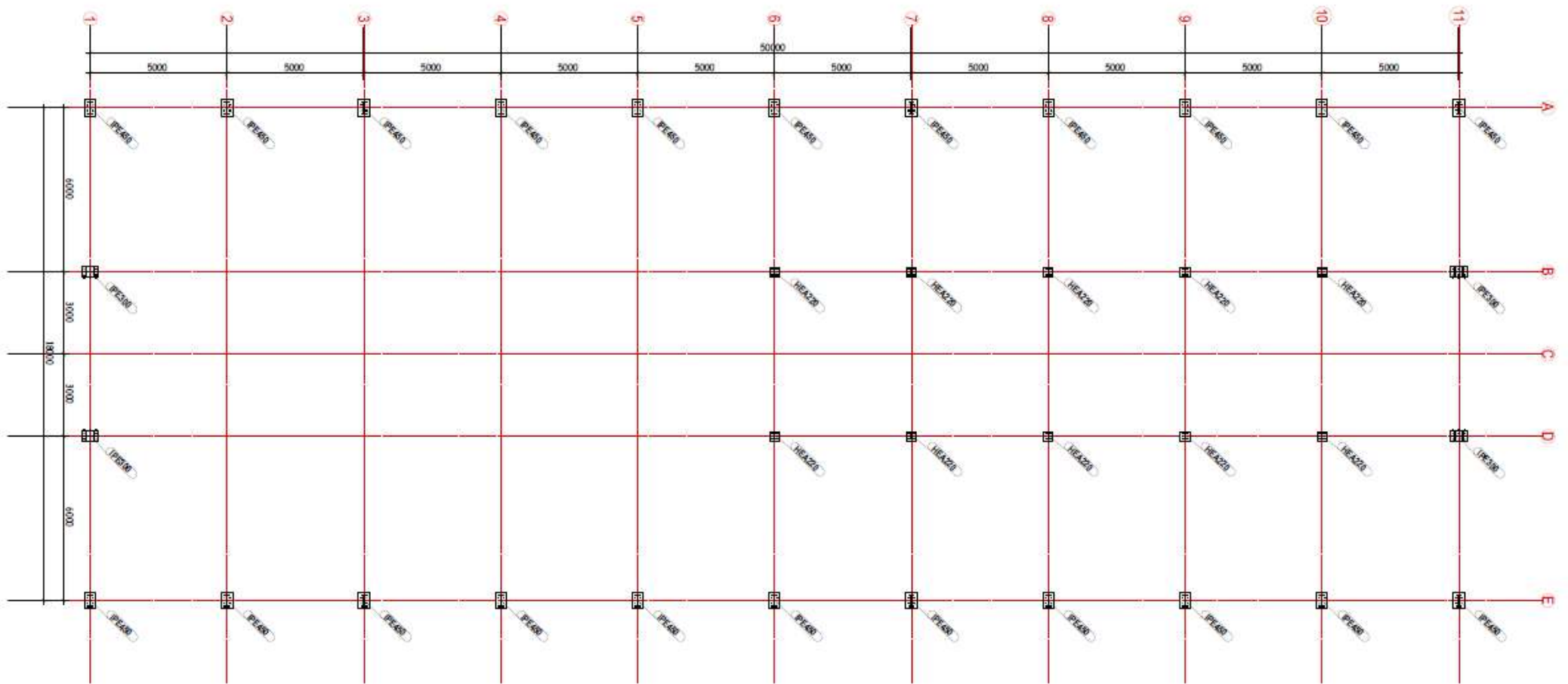


PLAN VIEW AT +4.00m

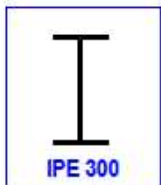
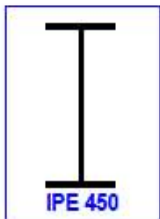


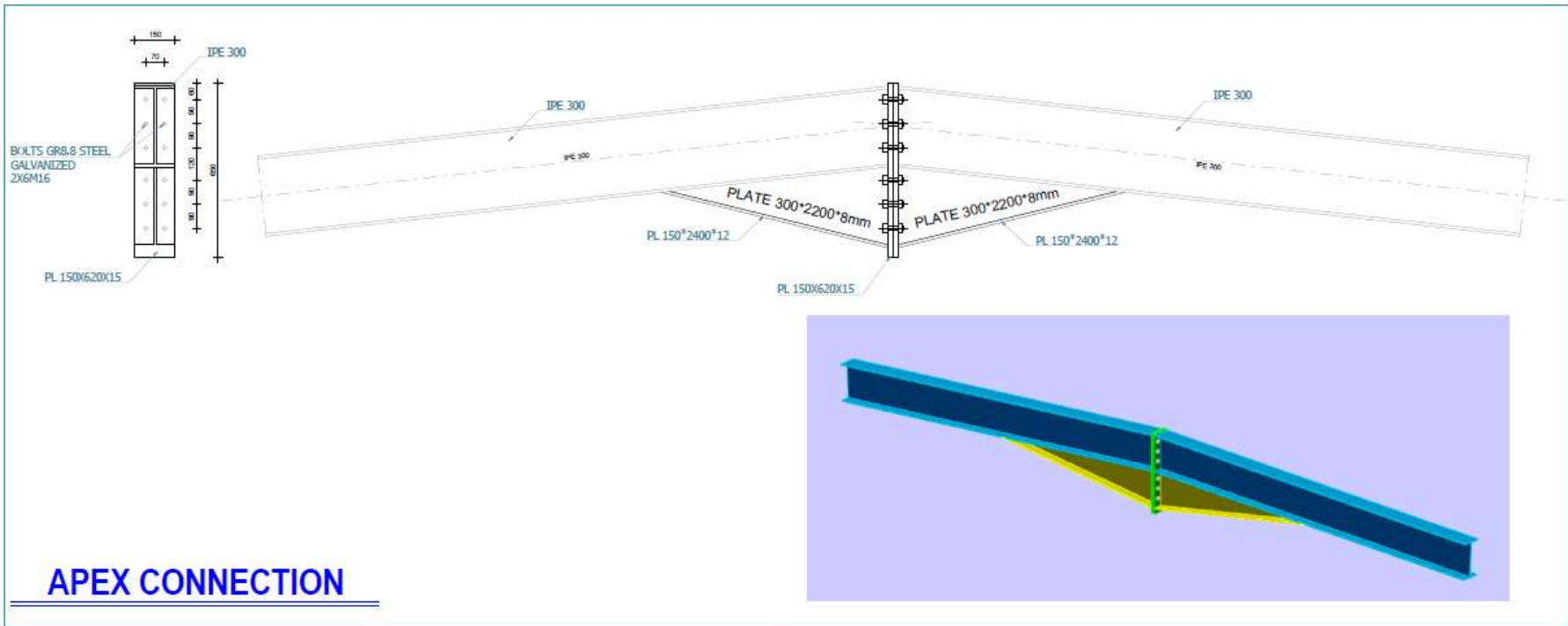
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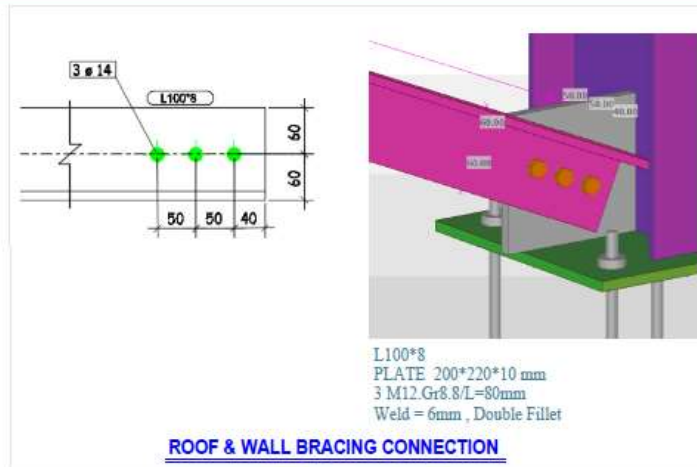
COLUMN AXIS



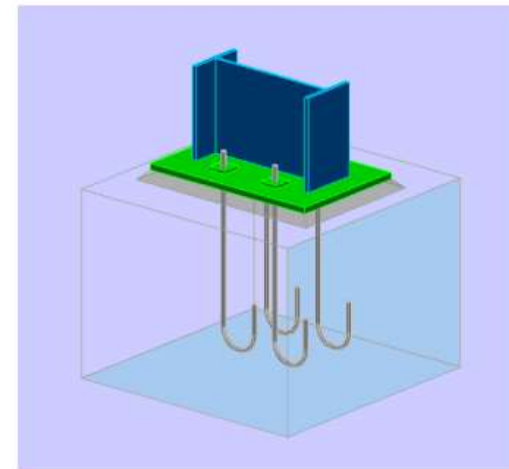
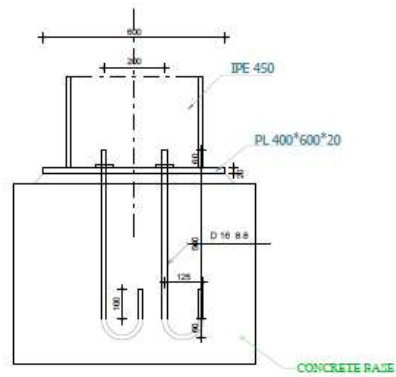
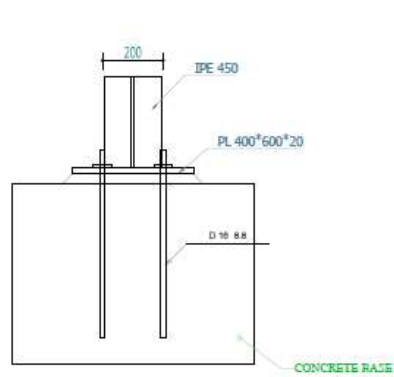


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L100*8
 PLATE 200*220*10 mm
 3 M12.Gr8.8/L=80mm
 Weld = 6mm , Double Fillet



Change in anchor dimensions

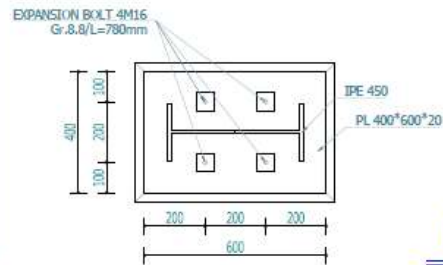
L1:

L2: mm

L3:

L4:

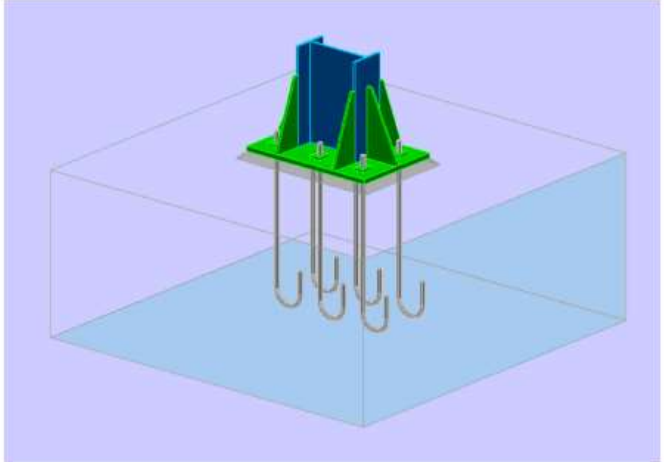
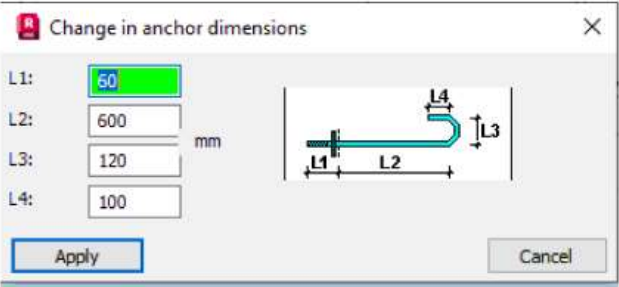
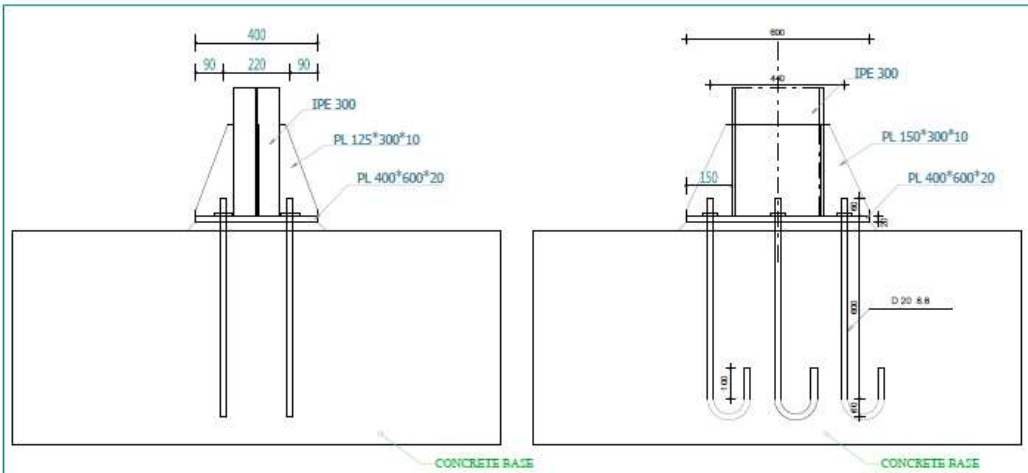
Apply Cancel



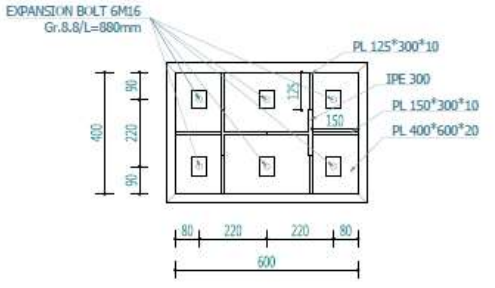
MAIN COLUMNS BASE CONNECTION

NOTE:

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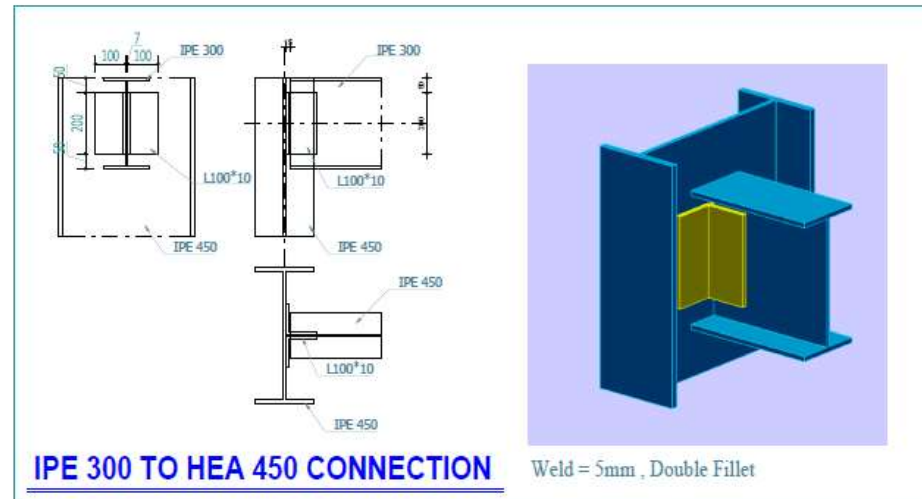
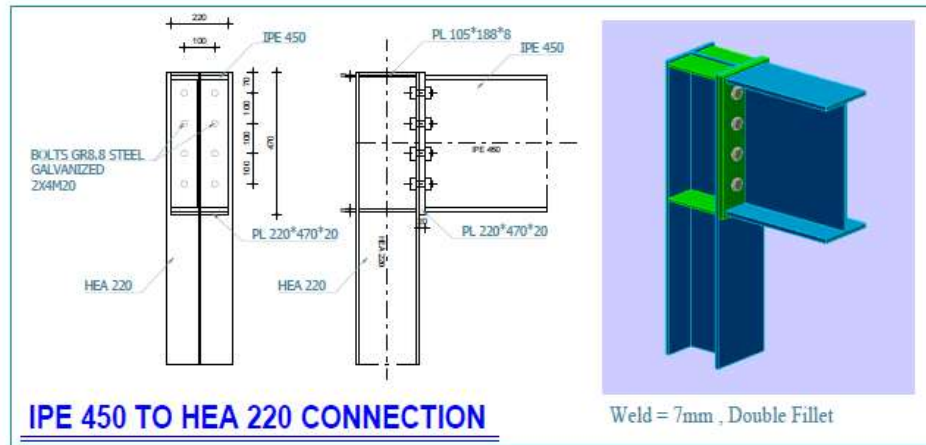


WIND COLUMNS BASE CONNECTION



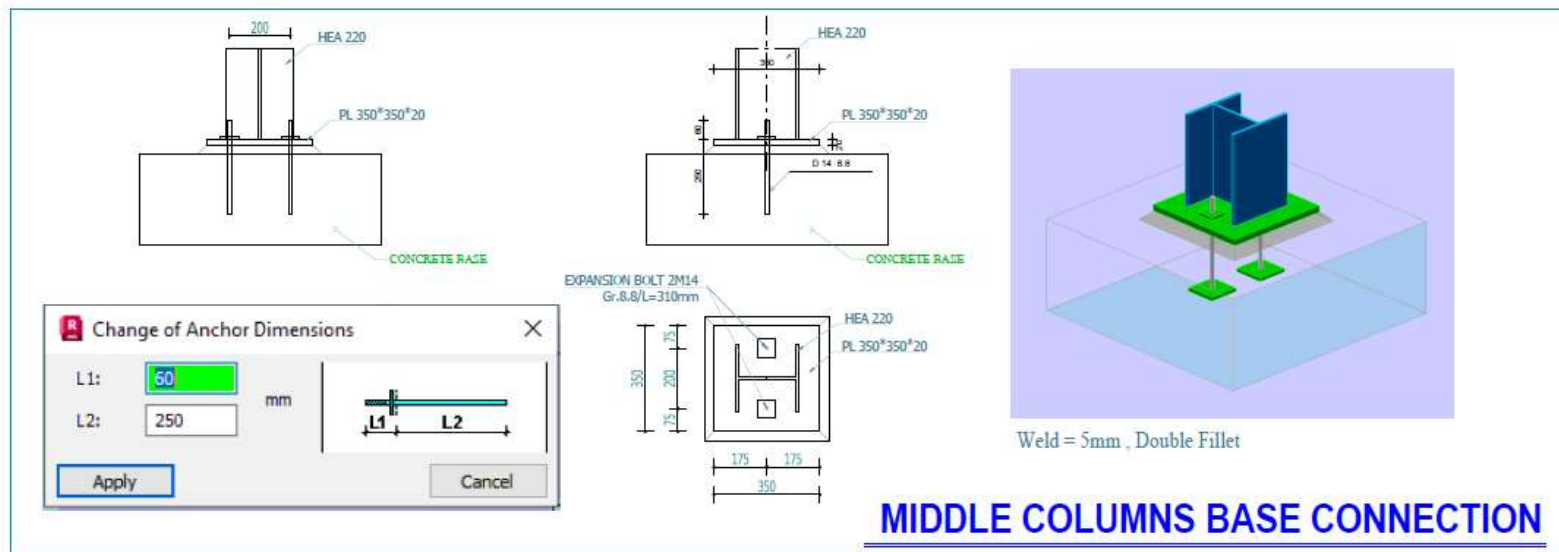
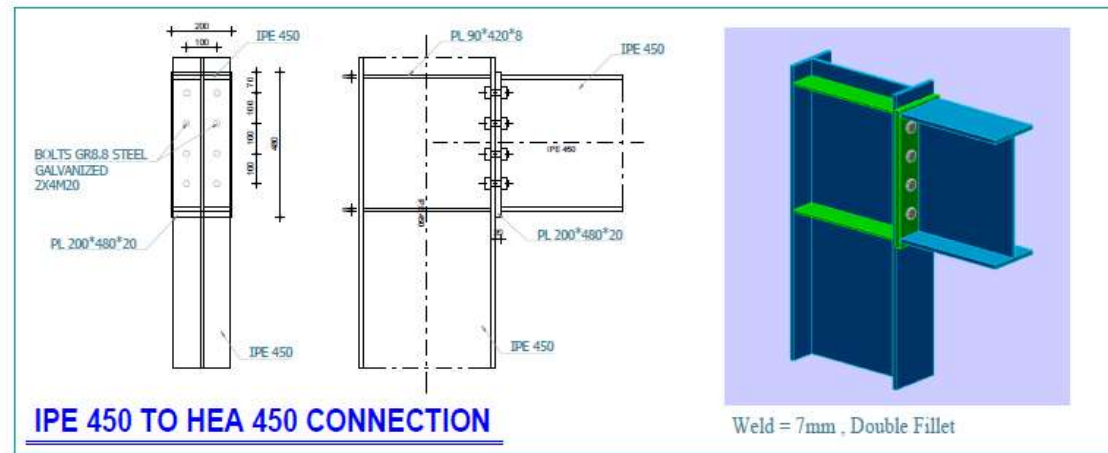
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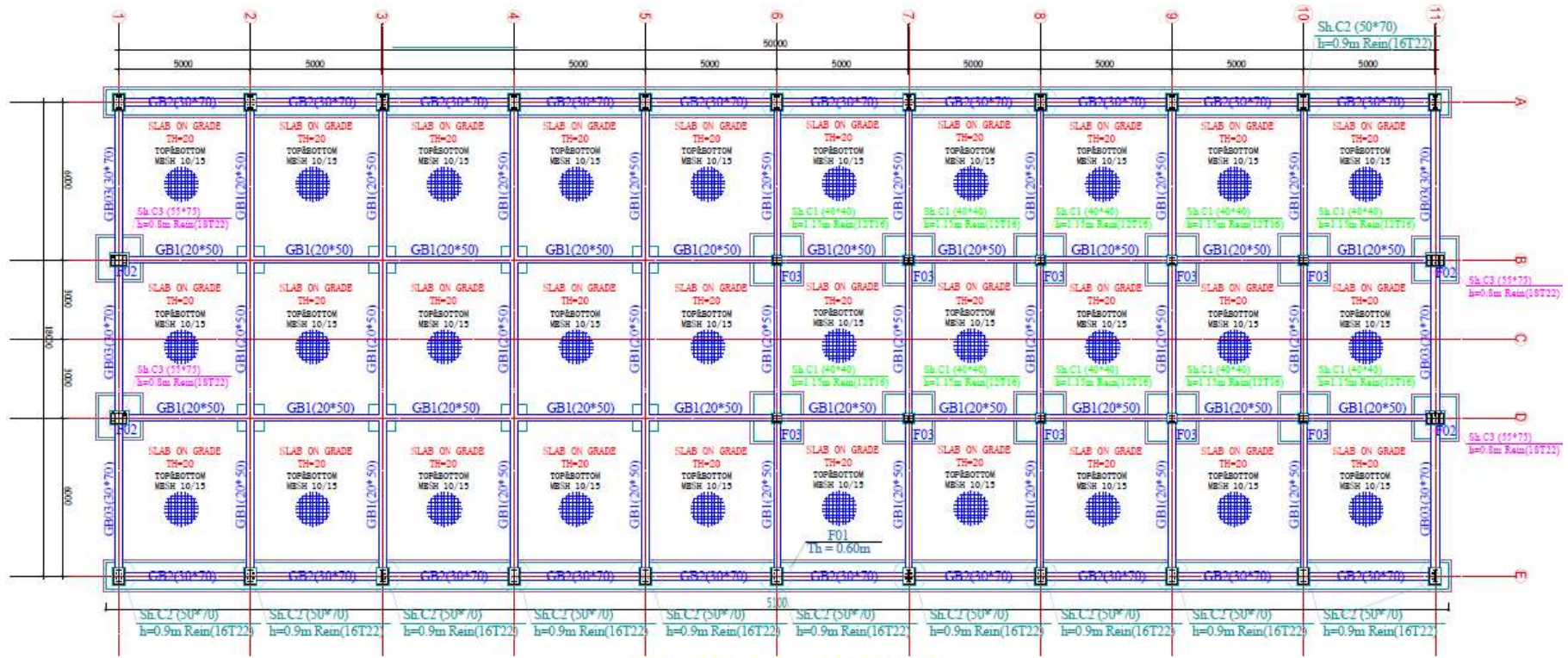
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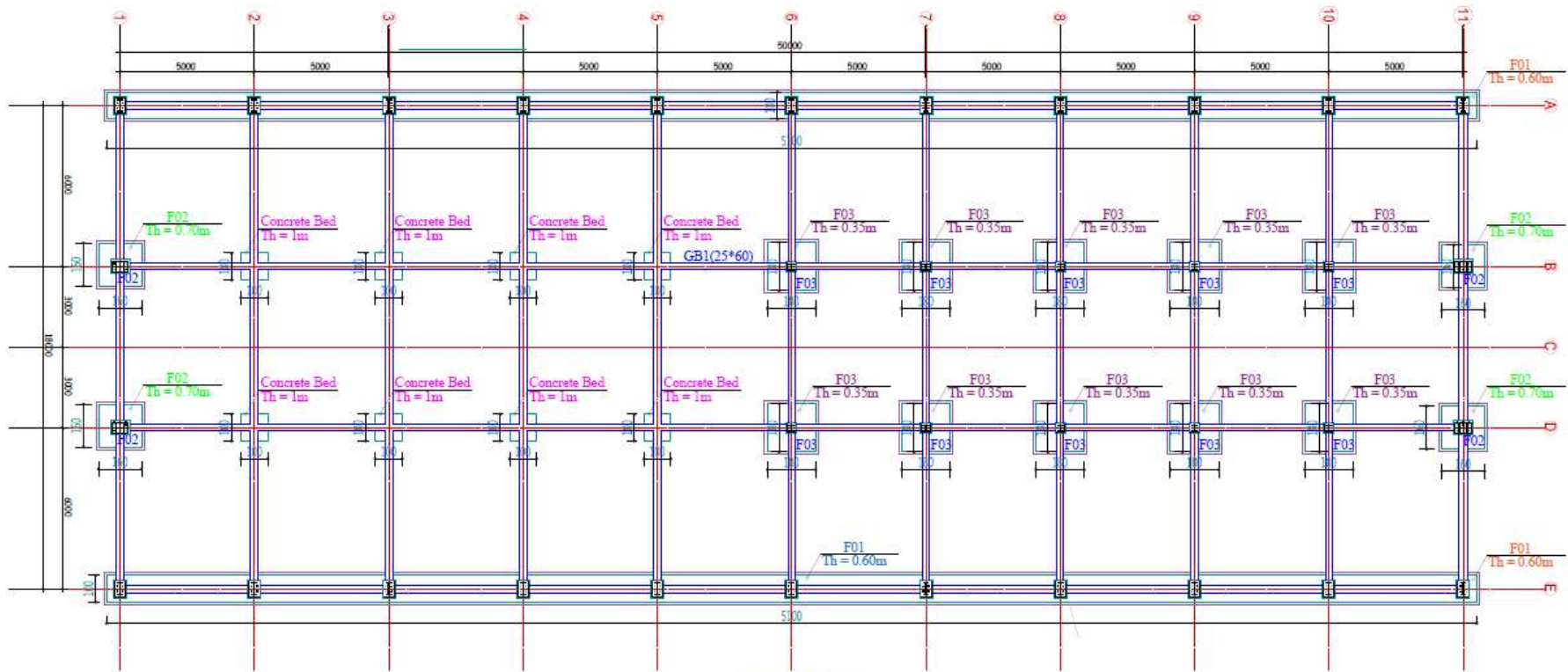


SLAB ON GRADE & GROUND BEAMS PLAN

SHORT COLUMN SCHEDULE					
SH.C NO.	DIMENSIONS			MAIN REIN.	STIRRUPS
	DIMENSION (m)	HIGHT (m)			
SH.C1	0.40	0.40	1.15	12T16	T10@150
SH.C2	0.50	0.70	0.90	16T22	T10@150
SH.C3	0.55	0.75	0.80	18T22	T10@150

GROUND BEAM SCHEDULE									
GROUND BEAM NO.	HIGH (m)	WIDTH (m)	BOTTOM REIN.	TOP REIN.		STIRRUPS			REIN. ONE SIDE
				C AT SUPPORT	D AT CONTINUOUS BEAM	LEFT	MIDDLE	RIGHT	
GB1	0.5	0.2	2T14	2T14	2T14	108/15cm	108/20cm	108/15cm	-
GB2	0.7	0.3	3T14	3T14	3T14	1010/15cm	1010/20cm	1010/15cm	2T12

NOTE:
 $f_c' = 30 \text{ mpa}$
 $f_y = 400 \text{ mpa}$, $f_{ys} = 240 \text{ mpa}$
 Soil capacity = 130 KN/m²



FOOTING PLAN

FOOTING SCHEDULE							
FOOTING NO.	DIMENSIONS			BOTTOM REINFT.		TOP REINFT.	
	A (m)	B (m)	DEPTH (m)	LONG	SHORT	LONG	SHORT
F01	51.00	1.00	0.60	T14@150	T14@150	T14@150	T14@150
F02	1.60	1.60	0.70	T16@150	T16@150	T16@200	T16@200
F03	1.80	1.80	0.35	T14@200	T14@200	T14@200	T14@200

NOTE:

The foundations are constructed at a depth of 1.5 meters.
 All concrete member are insulated with SBS bituminous roll and painted with a waterproofing membrane.

NOTE:

$f_c' = 30 \text{ mpa}$
 $f_y = 400 \text{ mpa}$, $f_{ys} = 240 \text{ mpa}$
 Soil capacity = 130 KN/m²

Thank You

For further technical information or full Tekla models, please feel free to contact us.

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