

Frame Plan and Lateral Bracing

Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with plinths:

- Concrete C-25/30 ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement FeB 42k ($f_{ys}=420\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Walls & Columns: All walls & columns are designed with:

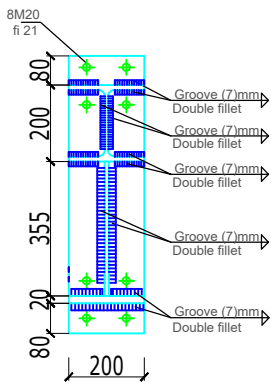
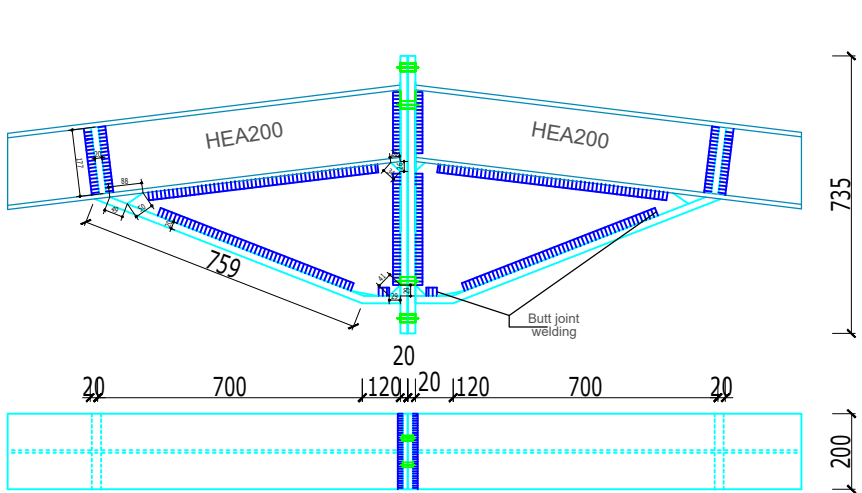
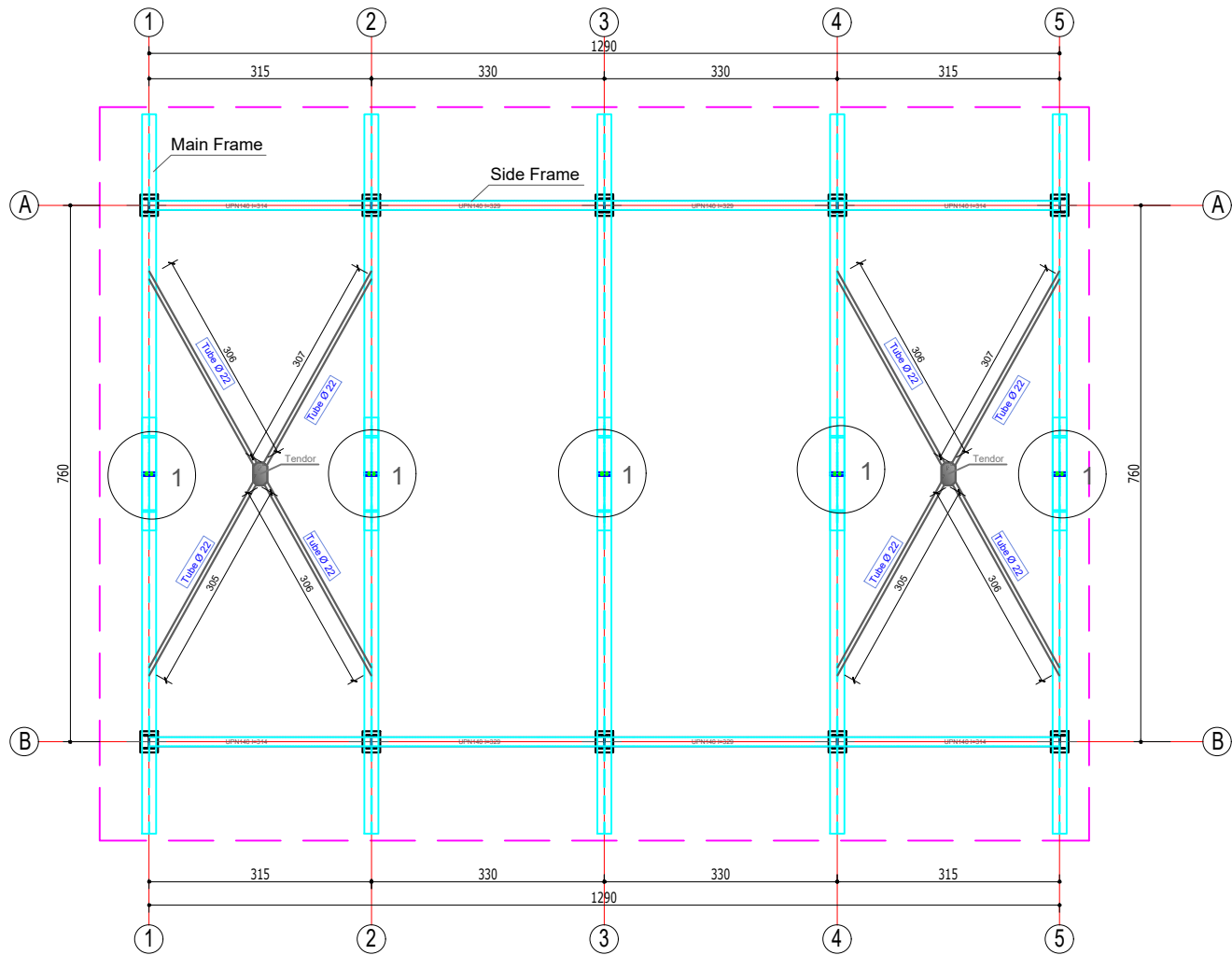
- Concrete C-25/30 ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement FeB 42k ($f_{ys}=420\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Beams: Beams for all storyes are designed with:

- Concrete C-25/30 ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement FeB 42k ($f_{ys}=420\text{N/mm}^2$) with safety factor $\gamma_s=1.15$



Concrete Slab: Slabs for all storyes are designed with:


- Concrete C-25/30 ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement FeB 42k ($f_{ys}=420\text{N/mm}^2$) with safety factor $\gamma_s=1.15$



NODE 1

LEGEND AND GUIDELINES
- Beam HEA200
- End Plate
- Width 200 mm
- Thickness 20 mm
- Steel type Fe430
- Bolts
- Diameter Ø20 mm
- Class Bolt 5.6
- Hole tolerance 0.1 mm
- Welding
- Minimum Thickness 19 mm
Unless otherwise prescribed,
all weldings in joints shall
be full penetration or double
fillet, wide not less than
the thickness of the members
being connected.

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		Name		
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Client		Ministry of Environment and Energy		
Project Title	Consultancy Services for Feasibility Study for an Integrated Solid Waste Management System for Zone III (including Greater Malé) and Preparation of Engineering Design of the Regional Waste Management Facility at Thilafushi			
Design phase	Detailed Design Harbour Rehabilitation			
Contents	Administration Building - Steel - Frame Plan and Lateral Bracing			
Scale	1 : 10; 1 : 20			
Drawing No.	3.3.5	Paper	A3	