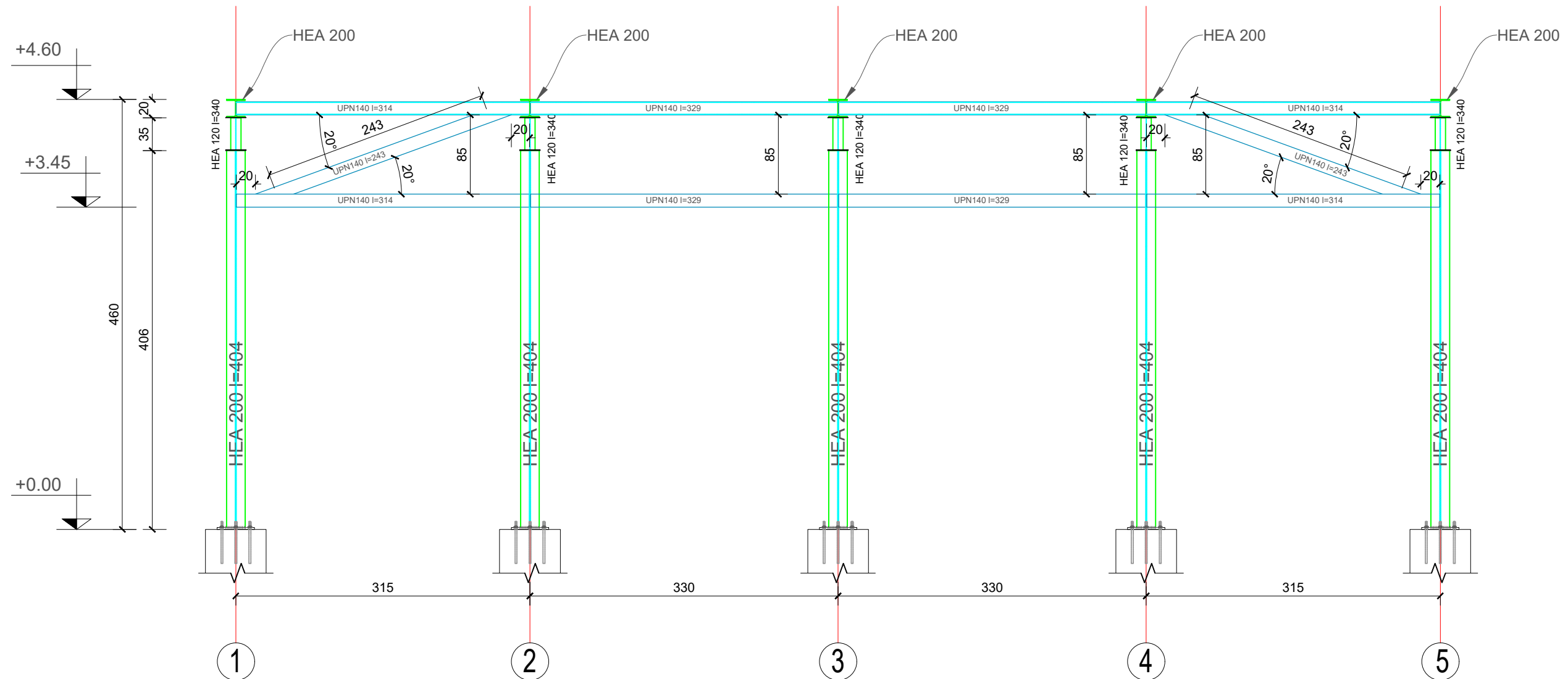


Side Frame



Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with plinths:

- Concrete C-25/30 ($f_{ck}=25000\text{N/m}^2$) 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 ($f_{ck}=25000\text{N/m}^2$) 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 stories are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{N/m}^2$) 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 $\gamma_s=1.15$

GUIDELINES

- Beam HEA200, Column HEA200
- EndPlate
 - Dimensions 400x400 mm
 - Thicknss 2x210 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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Designed	Qinami		May 2018	
Drafted	Qinami		May 2018	
Checked			May 2018	
Project No.	213 - 68524			

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 - Side Frame		
Scale	1 : 5		
Drawing No.	3.3.4	Paper	A3