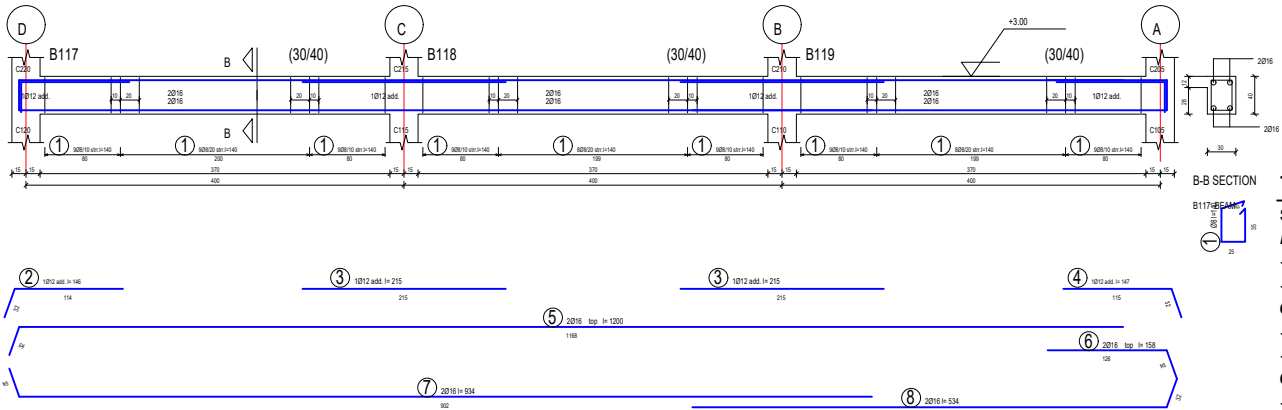
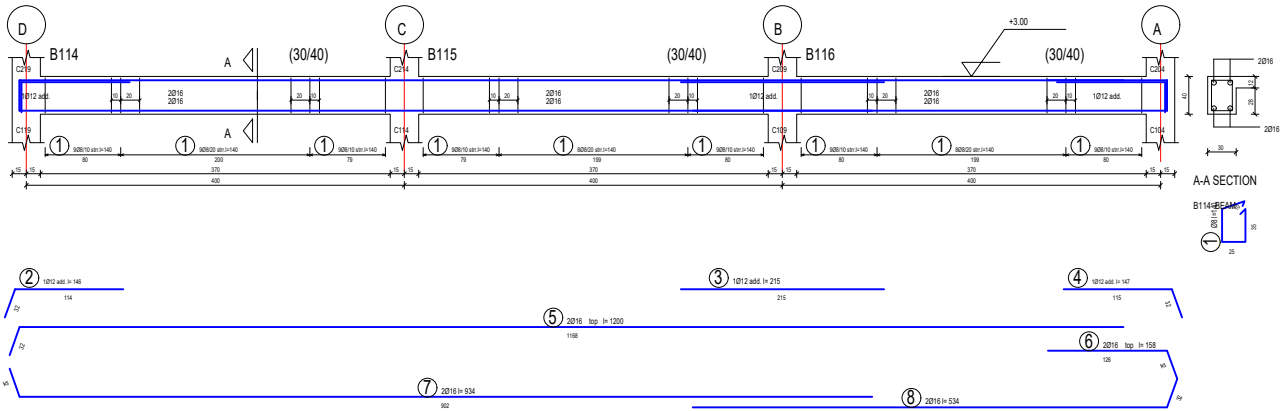
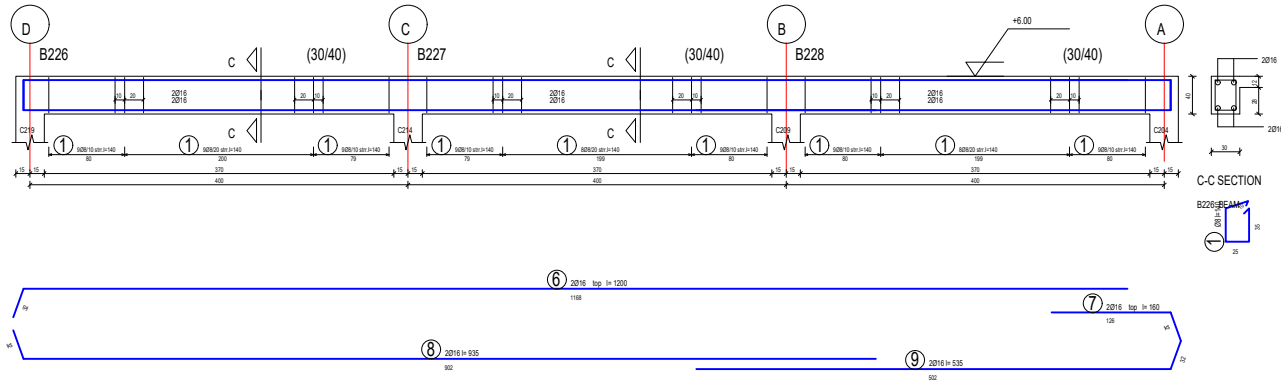
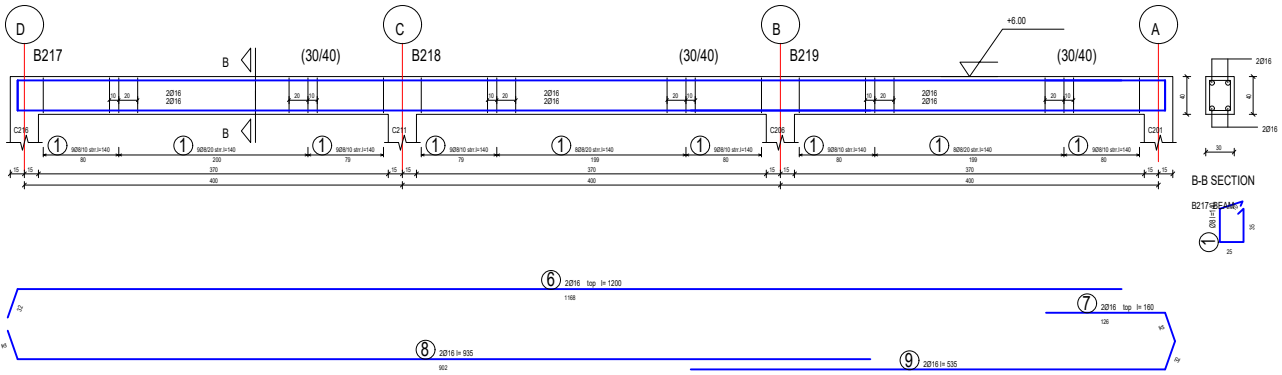
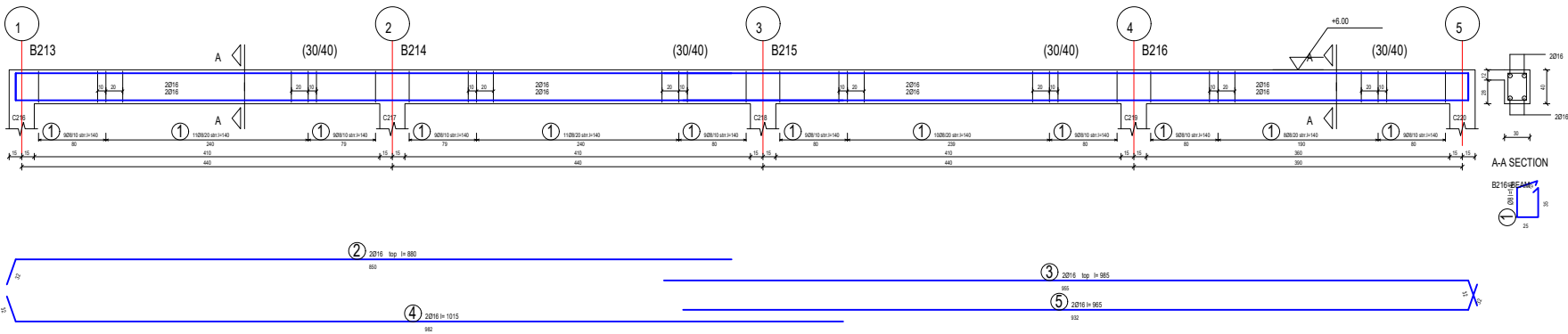


# BEAM DETAILS

B.O.Q.

Ø 6-12 (kg) : 149  
Ø 14-50 (kg) : 299.29

ITEM	MARK	DIA.	LENGTH	WEIGHT
4	P09	Ø16	535	33.7
4	P08	Ø16	935	58.9
4	P07	Ø16	160	10
4	P06	Ø16	1200	75.6
2	P05	Ø16	965	30.4
2	P04	Ø16	1015	32
2	P03	Ø16	985	31
2	P02	Ø16	880	27.7
				299.29
270	P01	Ø8	140	149
				149



ITEM	MARK	DIA.	LENGTH	WEIGHT
4	P08	Ø16	534	33.6
4	P07	Ø16	934	58.9
4	P06	Ø16	158	9.9
4	P05	Ø16	1200	75.6
				178
2	P04	Ø12	147	2.6
3	P03	Ø12	215	5.7
2	P02	Ø12	146	2.5
				10.7
158	P01	Ø8	140	87.2
				87.2

B.O.Q.

Ø 6-12 (kg) : 98  
Ø 14-50 (kg) : 178

## 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 S460A ( $f_{yk}=460\text{N/mm}^2$ ) 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 S460A ( $f_{yk}=460\text{N/mm}^2$ ) 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 S460A ( $f_{yk}=460\text{N/mm}^2$ ) with safety factor  $\gamma_s=1.15$
- Concrete Slab:** Slabs 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 S460A ( $f_{yk}=460\text{N/mm}^2$ ) with safety factor  $\gamma_s=1.15$



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	Name	
Designed	Qinami	April 2018
Drafted	Qinami	April 2018
Checked		April 2018
Project No.	213 - 68524	

Client	<b>Ministry of Environment and Energy</b>		
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	Workshop Building - Beam Details		
Scale	1 : 50		
Drawing No.	4.2.9	Paper	A3

