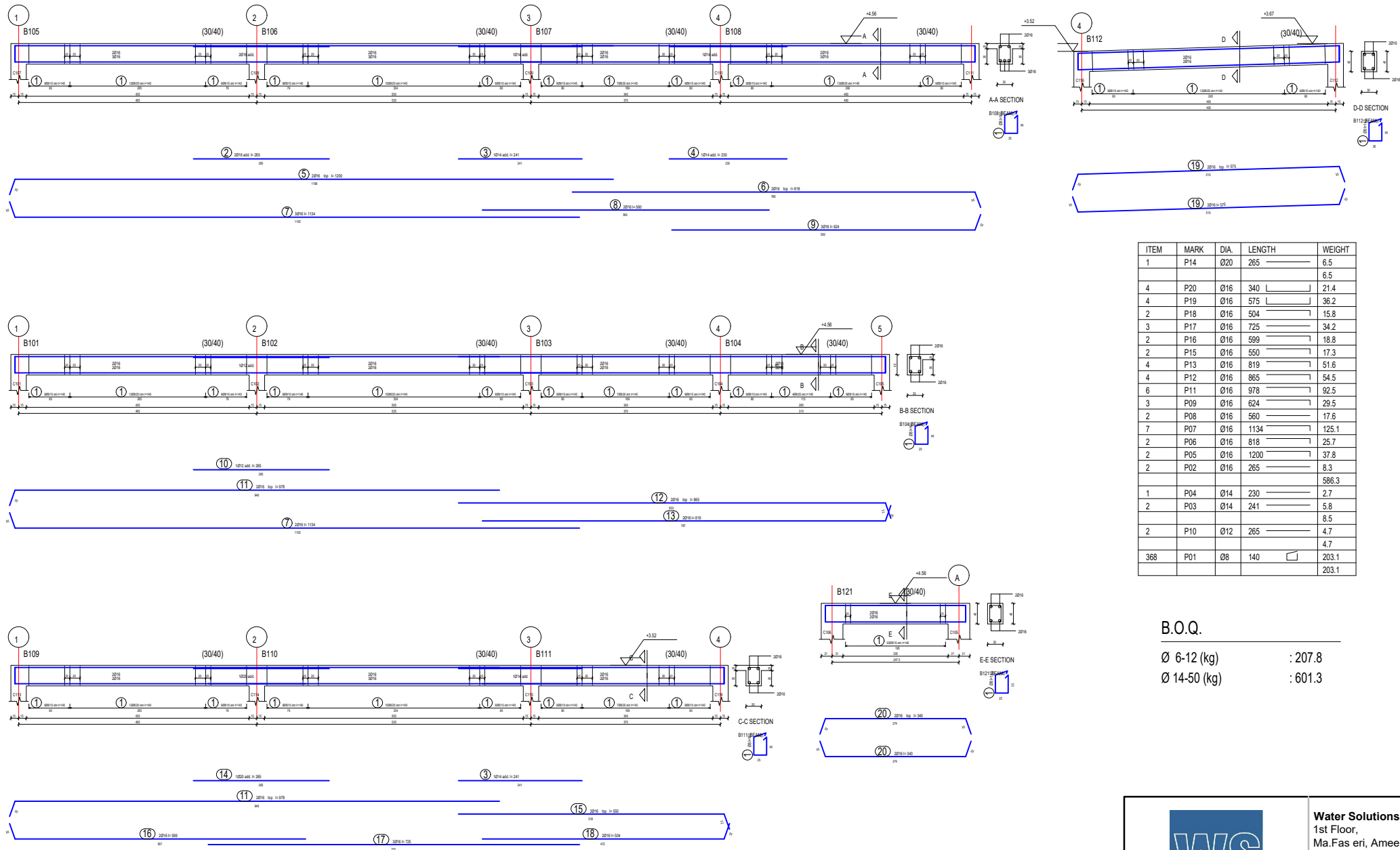


BEAM DETAILS



ITEM	MARK	DIA.	LENGTH	WEIGHT
1	P14	Ø20	265	6.5
				6.5
4	P20	Ø16	340	21.4
4	P19	Ø16	575	36.2
2	P18	Ø16	504	15.8
3	P17	Ø16	725	34.2
2	P16	Ø16	599	18.8
2	P15	Ø16	550	17.3
4	P13	Ø16	819	51.6
4	P12	Ø16	865	54.5
6	P11	Ø16	978	92.5
3	P09	Ø16	624	29.5
2	P08	Ø16	560	17.6
7	P07	Ø16	1134	125.1
2	P06	Ø16	818	25.7
2	P05	Ø16	1200	37.8
2	P02	Ø16	265	8.3
				586.3
1	P04	Ø14	230	2.7
2	P03	Ø14	241	5.8
				8.5
2	P10	Ø12	265	4.7
				4.7
368	P01	Ø8	140	203.1
				203.1

B.O.Q.

Ø 6-12 (kg)	: 207.8
Ø 14-50 (kg)	: 601.3

Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with plinths:

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

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

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

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		Name		
Designed	Qinami		April 2018	
Drafted	Qinami		April 2018	
Checked			April 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 - Beam Details			
Scale	1 : 10			
Drawing No.	3.2.6	Paper	A3	