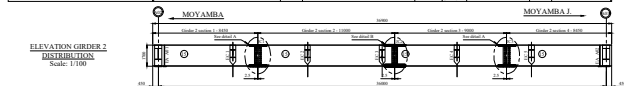
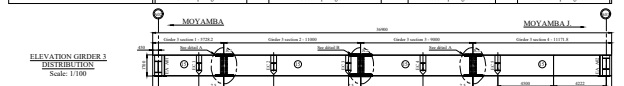


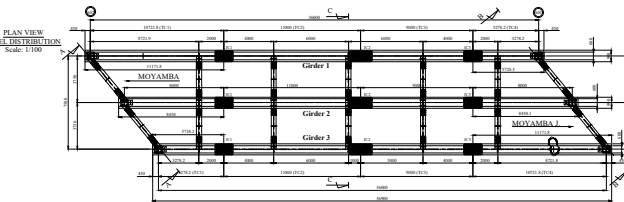
TOP FLANGE	Size	11771.47400 d. 30	11800*500 d. 30	9000*500 d. 30	3728.27400 d. 30
WEB	Steel grade	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
BOTTOM FLANGE	Size	11771.47400 d. 15	11800*250 d. 15	9000*250 d. 15	3728.27400 d. 15
CROSS BEAM	Size	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
DISTRIBUTION CONNECTORS	Type	W3	W3	W3	W3
	Division length	4725.8	4725.8	4725.8	4725.8
	Opening	10000	10000	10000	10000



TOP FLANGE	Size	8450*500 d. 30	11800*500 d. 30	9000*500 d. 30	8450*500 d. 30
WEB	Steel grade	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
BOTTOM FLANGE	Size	8450*250 d. 15	11800*250 d. 15	9000*250 d. 15	8450*250 d. 15
CROSS BEAM	Size	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
DISTRIBUTION CONNECTORS	Type	W3	W3	W3	W3
	Division length	7400	7400	7400	7400
	Opening	10000	10000	10000	10000

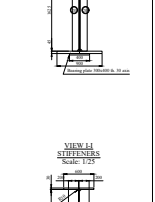
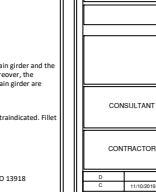
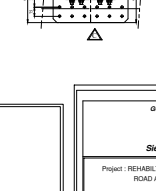
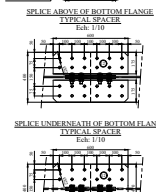
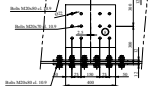
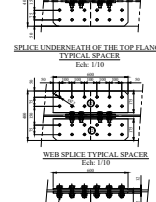
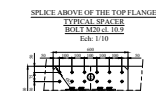
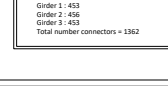
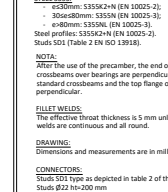
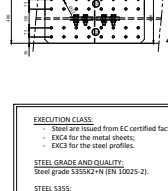
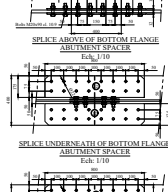
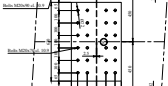
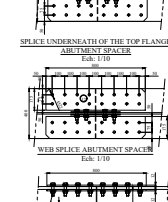
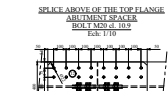
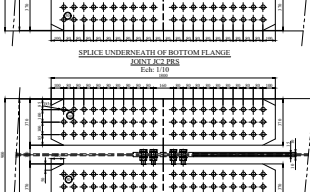
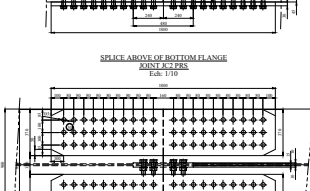
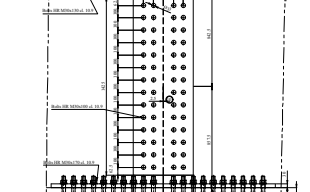
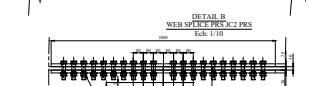
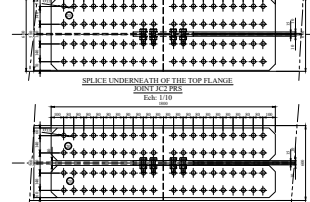
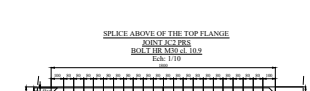
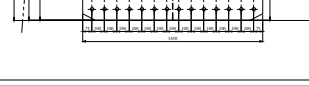
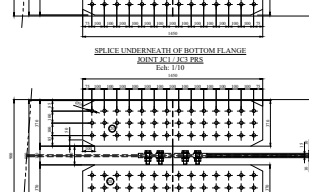
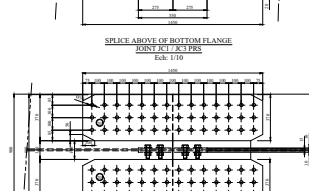
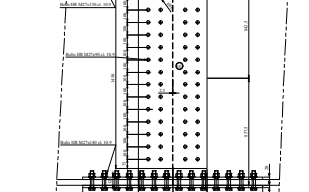
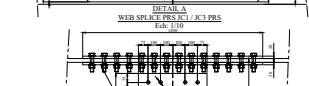
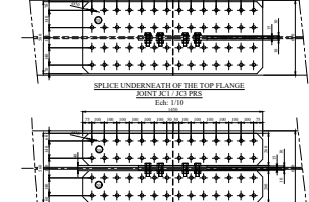
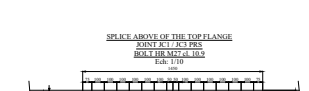
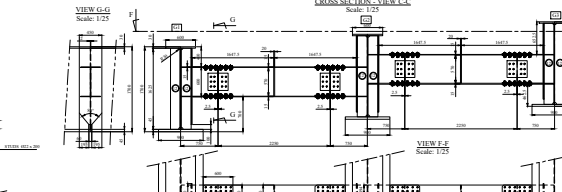
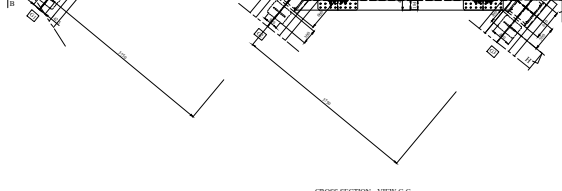
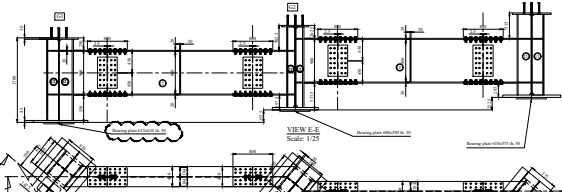
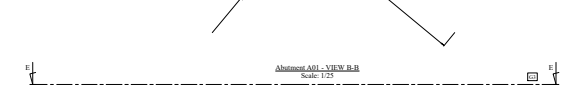
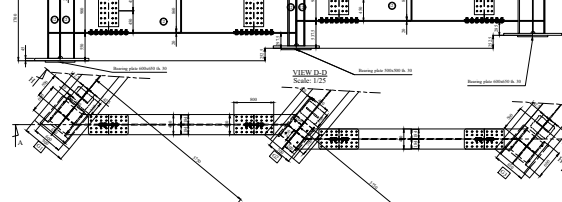
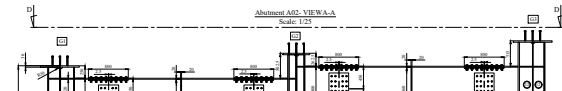


TOP FLANGE	Size	3728.27400 d. 30	11800*500 d. 30	9000*500 d. 30	11771.47400 d. 30
WEB	Steel grade	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
BOTTOM FLANGE	Size	3728.27400 d. 15	11800*250 d. 15	9000*250 d. 15	11771.47400 d. 15
CROSS BEAM	Size	S355 K27-N	S355 K27-N	S355 K27-N	S355 K27-N
DISTRIBUTION CONNECTORS	Type	W3	W3	W3	W3
	Division length	4725.8	4725.8	4725.8	4725.8
	Opening	10000	10000	10000	10000



From table 2 of EN 10350-2:2015, the following table is extracted:

Size	Weight (kg/m)	Area (cm²)	Radius (mm)	Thickness (mm)	Weight (kg/m)	Area (cm²)	Radius (mm)	Thickness (mm)	Weight (kg/m)	Area (cm²)	Radius (mm)	Thickness (mm)
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0
10.0	4.00	11.0	10.0	1.0	11.0	11.0	10.0	1.0	11.0	11.0	10.0	1.0



**EXECUTION CLASS:**  
Steel are issued from E.C. certified factory;  
EXC for the metal sheets;  
EXC for the steel profiles.

**STEEL GRADE AND QUALITY:**  
Steel grade S355K2-N (EN 10025-2).

**STEEL SIZES:**  
450mm: S355K2-N (EN 10025-2);  
304x40mm: S355N (EN 10025-2);  
+400mm: S355N (EN 10025-2);  
Steel profiles: S355K2-N (EN 10025-2);  
Steel S355 (Table 2 EN ISO 13918).

**NOTA:**  
After the use of the preambler, the end of the main girder and the crossbeams over bearing are perpendicular. Moreover, the standard crossbeams and the top flange of the main girder are perpendicular.

**FILLET WELDS:**  
The effective throat thickness is 5 mm unless contraindicated. Fillet welds are continuous and all round.

**DRAWING:**  
Dimensions and measurements are in millimeter.

**CONNECTIONS:**  
Steel S355 type as depicted in table 2 of the EN ISO 13918  
Steel S355 19-200 mm  
Girder 1: 453  
Girder 2: 456  
Girder 3: 453  
Total number connectors = 1362

**GOVERNMENT OF SIERRA LEONE**

**Sierra Leone Road Authority**

Project: REHABILITATION OF THE MOYAMBA JUNCTION ROAD AND CONSTRUCTION OF BRIDGES

GBRANGMABA Bridge  
Steel Deck Solution

DESIGNED BY  
POLYTECHNICA

CONSULTANT  
POLYTECHNICA

CONTRACTOR  
POLYTECHNICA

Project	Index	Document	Number	Status	State