MEMBER	NO OF	NO BARS	DIA	CUT LENGTH	TOTAL	BAR MARK	SC	A	B	C	D	E/R	kg
280x595 DEEP DOWNSTAND BEAM B2 SIMILAR TO BEAM B4 THUS 2 NO. OFF	2	105	R8	1500	210	01	60	490	170				124
	2	8	Y16	2500	16	02	20	[2500]					63
	2	2	Y16	3600	4	03	20	[3600]					23
	2	2	Y32	4700	4	04	20	[4700]					119
	2	2	Y25	3850	4	05	20	[3840]					59
	2	2	Y20	4950	4	06	20	[4940]					49
	2	2	Y16	8750	4	07	20	[8740]					55
	2	4	Y16	3800	8	08	20	[3780]					48
	2	4	Y25	3000	8	09	38	1340	440	[1340]			92
	2	2	Y16	4950	4	10	20	[4940]					31
	2	2	Y32	8750	4	11	20	[8740]					221
	2	2	Y20	3350	4	12	20	[3350]					33
	2	2	Y20	5350	4	13	20	[5340]					53
	2	2	Y16	5350	4	14	20	[5340]					34
	2	2	Y16	6500	4	15	20	[6470]					41
	2	2	Y25	6500	4	16	20	[6470]					100

	6	8	10	12	16	20	25	32	40	TOTAL
R		124								124
Y					295	135	252	340		1021
TOTAL		124			295	135	252	340		1146

MEMBER	NO OF	NO BARS	DIA	CUT LENGTH	TOTAL	BAR MARK	SC	A	B	C	D	E/R	kg
200x455 DEEP UPSTAND BEAM B11 SIMILAR TO BEAM B12 THUS 2 NO. OFF	2	16	Y16	2500	32	01	20	[2500]					126
	2	4	Y16	3800	8	02	20	[3780]					48
	2	4	Y16	4950	8	03	20	[4940]					63
	2	109	R8	1050	218	04	60	350	100				90
	2	4	Y16	5350	8	05	20	[5340]					68
	2	4	Y16	6500	8	06	20	[6470]					82
	2	4	Y16	2950	8	07	38	1350	310	[1350]			37
	2	4	Y16	8750	8	08	20	[8740]					110

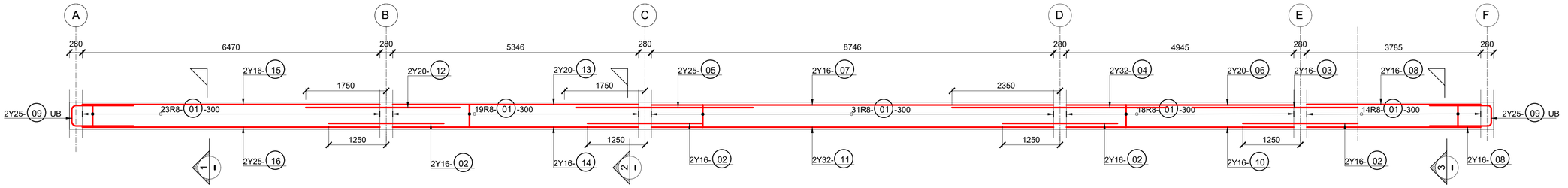
	6	8	10	12	16	20	25	32	40	TOTAL
R		90								90
Y					534					534
TOTAL		90			534					624

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM U.O.N.
2. USE FIGURED DIMENSIONS ; DO NOT SCALE OFF
3. CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & AN DISCREPANCIES REPORTED TO THE ARCHITECT OR ENGINEER.

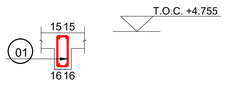
CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED TO SANS `2001 (CC1 & CC2) & SANS 10100-2
2. CONCRETE GRADE TO STRUCTURAL ELEMENTS SHALL BE 40MPA AT 28 DAYS
3. BLINDING CONCRETE TO BE MIN 15 MPA
4. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH SANS 10100-2
5. ALL EXPOSED CORNERS TO HAVE 20mm CHAMFER
6. ALL REINFORCEMENT SHALL BE HOT DIPPED GALVANISED
7. MIN COVER TO REINFORCEMENT SHALL BE 50mm
8. ALL REINFORCEMENT TO BE CHECKED BY ENGINEER PRIOR TO CAST OF CONCRETE
9. GROUT SHALL BE NON-SHRINK AND INSTALLATION PERFORMED TO THE MANUFACTURERS SPECIFICATIONS

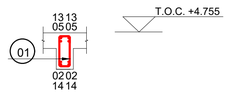


280x595 DP DOWNSTAND BEAM B2 (SIMILAR TO BEAM B4 THUS 2 No. OFF)

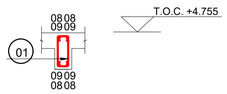
SCALE 1:50



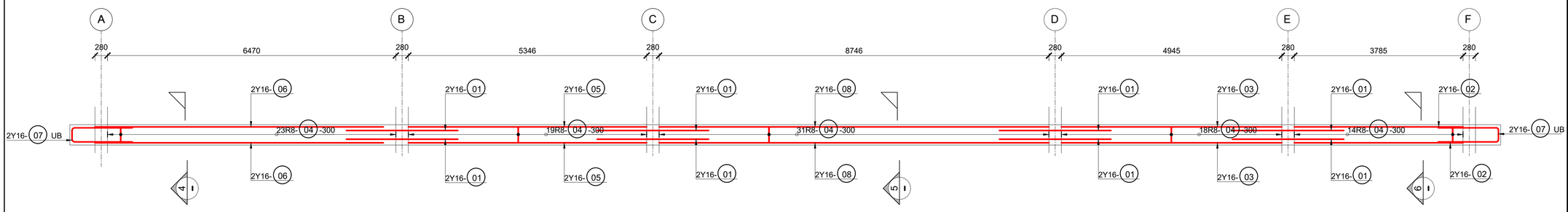
SECTION 1
SCALE 1:25



SECTION 2
SCALE 1:25

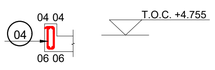


SECTION 3
SCALE 1:25

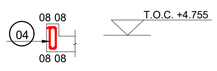


200x455 DP UPSTAND BEAM B11 (SIMILAR TO BEAM 12 THUS 2 No. OFF)

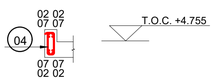
SCALE 1:50



SECTION 4
SCALE 1:25



SECTION 5
SCALE 1:25



SECTION 6
SCALE 1:25

APPROVED FOR CONSTRUCTION

CLIENT: TRANSNET national ports authority

Client Name:

Designation & Section:

Client Signature:

Project Phase 2

Date:

Contact No.'s:

No.	DATE	REVISION DETAIL
0	06/05/21	ORIGINAL ISSUE FOR APPROVAL
1	31/11/2022	NOTES EDITED, DRAWING ISSUED & APPROVED FOR CONSTRUCTION

Main Contractor: Stateway Switchboards

Main Contractor: Stateway Switchboards Pty Ltd

ZML Africa Drawing No.: TNPA/2020

Consultant: Z.M.L Engineers and Project Managers, A Division of ZML Africa Group

Sub-Consultant: LUBISI CONSULTING, A NEW PERSPECTIVE TO ENGINEERING CONSULTING

Site Address: Sturrock Dry Dock, Cape Town

Building Name: Combined Pump House & Graving Dock Substation

Project Description: Sturrock Dry Dock Electrical Infrastructure Upgrades

Drawing Description: Roof Beams Reinforcement Layout & Sections - Sheet 1

Drawn:	E.M.	Date:	04 / 2021
Designer/ Checked:	E.M.	Scale:	AS SHOWN
Approved:	C.T.P.	Drawing Size:	A1
Prof Reg. No.	20050009	Revision No.	1
Signature:			

Drawing Number: TNPA/2020-SE-006

Site & Building No.	Floor No.	Discipline & Service Type
		STRUCTURAL
Sheet Number	**Project Number**	**Proposal No.**
1 OF 3	TNPA857 CIDB	-