MEMBER	NO OF	NO BARS	DIA	CUT LENGTH	TOTAL	BAR MARK	SC	A	B	C	D	E/R	kg
280x595 DEEP DOWNSTAND BEAM B1 SIMILAR TO BEAM B3,B5,B6,B7 & B8 THUS 6 NO. OFF													
	6	48	R8	1500	288	01	60	490	170				170
	6	4	Y16	1900	24	02	20	[1870]					72
	6	4	Y20	2200	24	03	20	[2200]					130
	6	6	Y16	3850	36	04	20	[3840]					219
	6	6	Y20	3850	36	05	20	[3840]					342
	6	4	Y20	4000	24	06	38	1830	420	[1820]			237

	6	8	10	12	16	20	25	32	40	TOTAL
R		170								170
Y					291	709				1000
TOTAL		170			291	709				1170

MEMBER	NO OF	NO BARS	DIA	CUT LENGTH	TOTAL	BAR MARK	SC	A	B	C	D	E/R	kg
200x455 DEEP UPSTAND BEAM B13 SIMILAR TO BEAM B14 THUS 2 NO. OFF													
	2	42	R8	1050	84	01	60	350	100				35
	2	8	Y16	1900	16	02	20	[1870]					48
	2	4	Y16	3400	8	03	38	1570	310	[1570]			43
	2	12	Y16	3850	24	04	20	[3840]					146

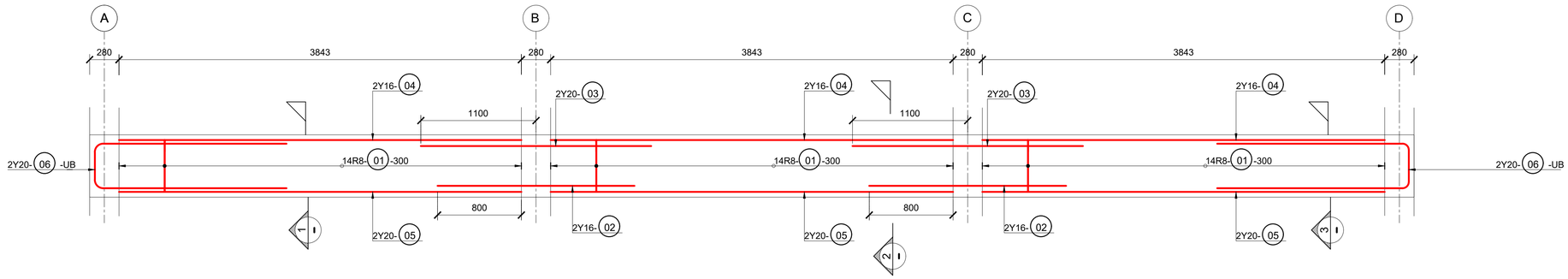
	6	8	10	12	16	20	25	32	40	TOTAL
R		35								35
Y					237					237
TOTAL		35			237					272

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.

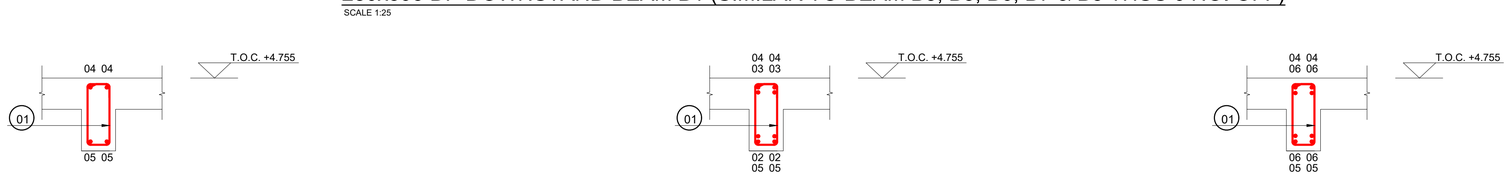
CONCRETE NOTES

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 B1 (SIMILAR TO BEAM B3, B5, B6, B7 & B8 THUS 6 NO. OFF)

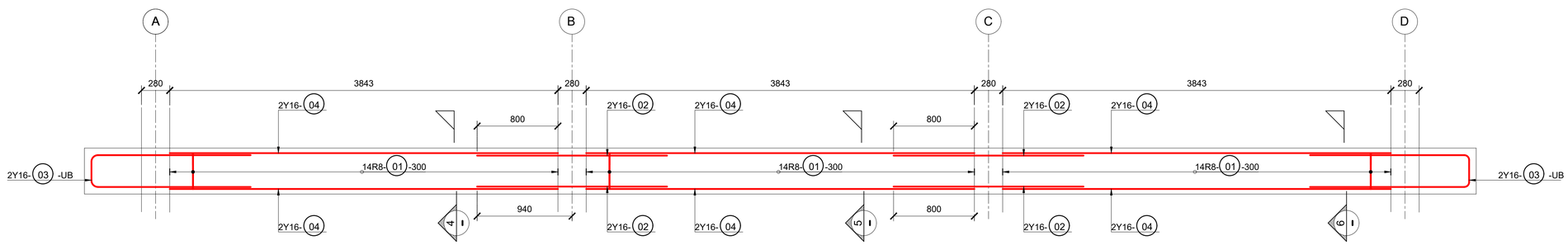
SCALE 1:25



SECTION 1 SCALE 1:25

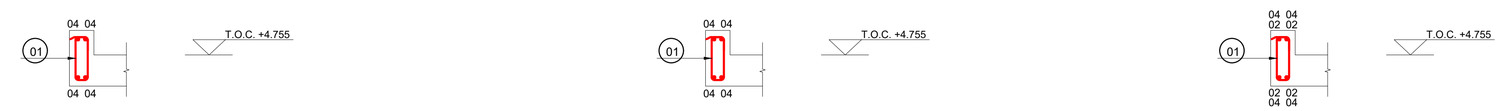
SECTION 2 SCALE 1:25

SECTION 3 SCALE 1:25



200x455 DP DOWNSTAND BEAM B13 (SIMILAR TO BEAM B14 THUS 2 No. OFF)

SCALE 1:25



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 & Section - Sheet 2

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-007

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