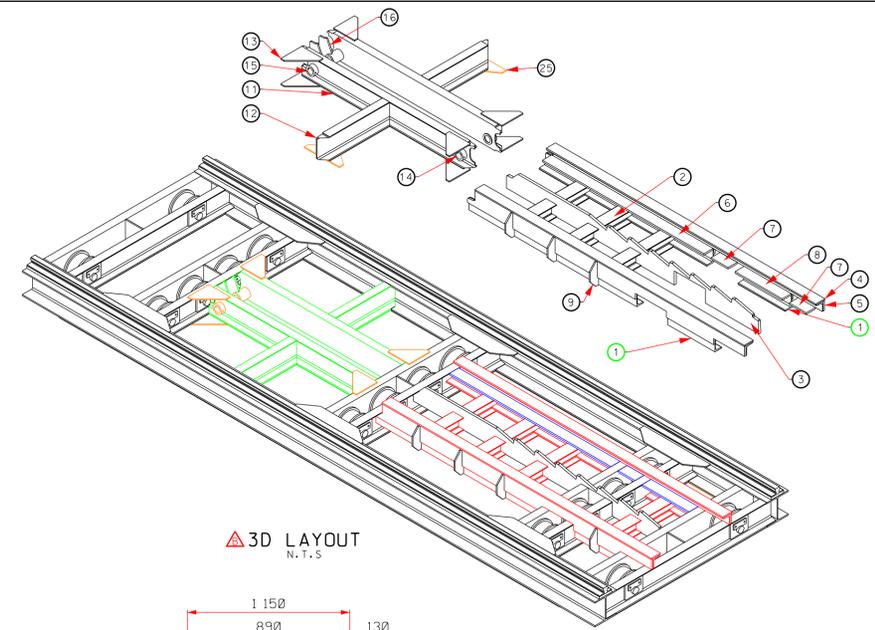
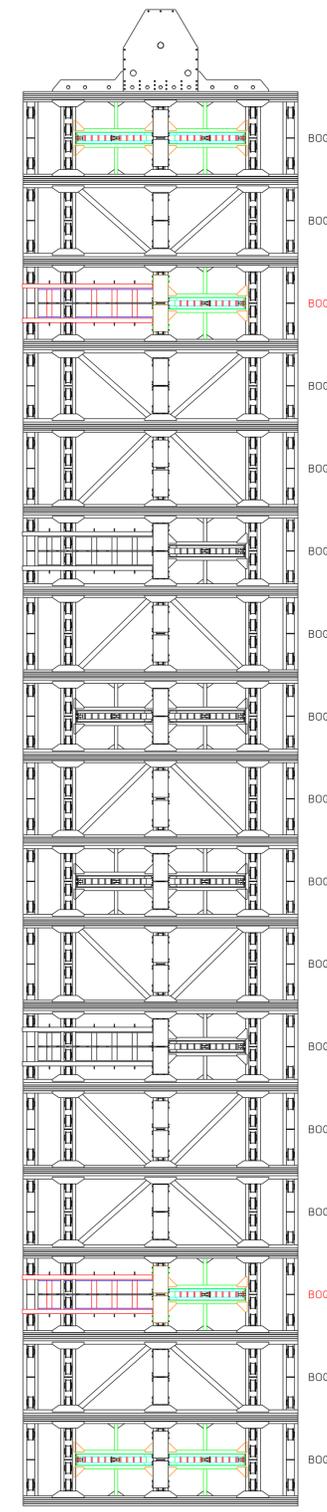


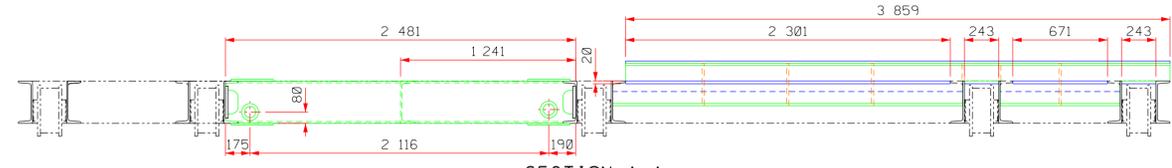
PLAN VIEW



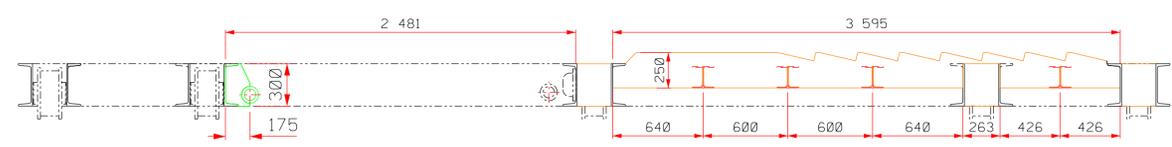
3D LAYOUT N.T.S.



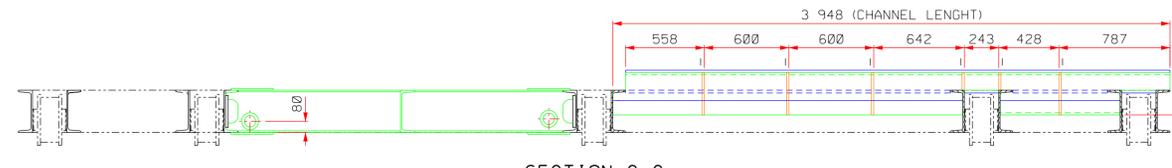
KEY PLAN N.T.S.



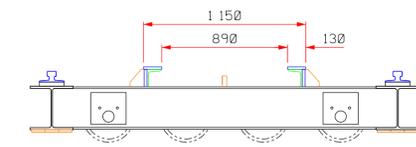
SECTION A-A



SECTION B-B



SECTION C-C



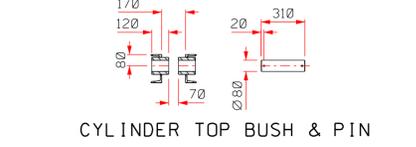
SIDE VIEW



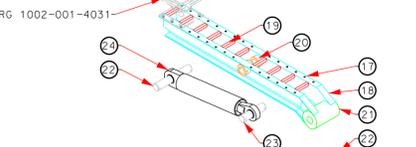
SECTION D-D



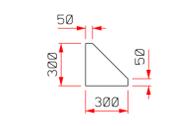
SECTION E-E



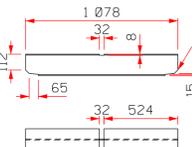
CYLINDER TOP BUSH & PIN



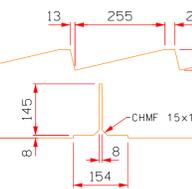
3D LAYOUT N.T.S.



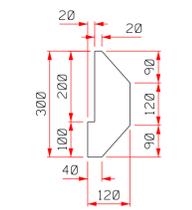
CUSSET DETAIL 12mm PLATE



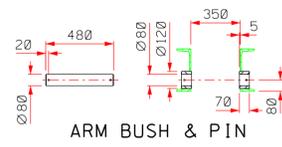
BEAM NOTCH DETAIL H 152x152x23kg/m



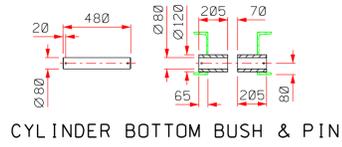
LOCK GROOVE DETAIL SCALE 1:10



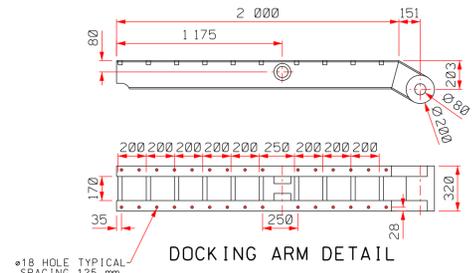
CUSSET DETAIL 16mm PLATE SCALE 1:10



ARM BUSH & PIN



CYLINDER BOTTOM BUSH & PIN



DOCKING ARM DETAIL

ITEM	QTY.	DESCRIPTION	MATERIAL
1	2	DIN CHANNEL 300x100x46Kg/m L= 3 948mm	S355JR
2	4	H 152x152x23kg/m L= 1 078mm	S355JR
3	1	LOCK PLATE 3595x250x30mm	S355JR
4	2	CHANNEL TOP DOUBLER PLATE 3859x130x16mm	S355JR
5	2	CHANNEL SIDE DOUBLER PLATE 3948x200x20mm	S355JR
6	2	PLATE 2301x130x20mm	S355JR
7	4	PLATE 243x130x20mm	S355JR
8	2	PLATE 671x130x20mm	S355JR
9	8	GUSSET 300x120x16mm	S355JR
10		ITEM REMOVED	
11	2	DIN CHANNEL 300x100x46Kg/m L= 2 481mm	S355JR
12	2	DIN CHANNEL 300x100x46Kg/m L= 1 035mm	S355JR
13	8	GUSSET 300x300x12mm	S355JR
14	2	BUSH OD. 120mm, ID. 80mm L= 70mm	EN8
15	2	BUSH OD. 120mm, ID. 80mm L= 205mm	EN8
16	2	GUSSET 300x175x16mm	S355JR
17	2	DIN CHANNEL 200x75x25.3kg/m L= 2 000mm	S355JR
18	2	DIN CHANNEL 200x75x25.3kg/m L= 235mm	S355JR
19	10	SOR.BAR 30x30mm L= 170mm	S355JR
20	2	BUSH OD. 120mm, ID. 80mm L= 120mm	EN8
21	1	BUSH OD. 200mm, ID. 80mm L= 230mm	EN8
22	2	PIN OD. 80mm L= 480mm	DUPLEX S.S
23	1	PIN OD. 80mm L= 310mm	DUPLEX S.S
24	1	HYD. CYLINDER (SEE SPEC)	BOUGHT OUT
25	2	GUSSET 500x200x12mm	S355JR
25		ITEM REMOVED	

- GENERAL NOTES**
- QUANTITIES GIVEN ARE FOR ONE OFF
  - EST. WEIGHT (ITEMS 1 TO 10): 1102Kg
  - EST. WEIGHT (ITEMS 11 TO 25): 758Kg
  - ITEMS 1 TO 9: 2 OFF TOWER SUB-FRAME
  - ITEMS 11 TO 25: 6 OFF HYDRAULIC DOCKING ARM SUB-FRAME

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
B	ITEM 10 AND 26 REMOVED	APM	JD		21/06/23
A	ADDITIONAL HYDRAULIC SUPPORT ARMS	JD	BG		18/05/23

**REVISIONS / ISSUE AUTHORIZATION**

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**CLIENT LOGO**

**CLIENT**

TITLE	NAME	DATE

**MAIN CONSULTANT**

TITLE	NAME	DATE
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CHECKED	BERNARD GENEVIEVE	07-03-23
ENG. COORD		
ARCHITECT		
ELEC. ENG.		
MECH. ENG.		
STRUCT. ENG.		
CIVIL. ENG.		
INSTRU. ENG.		
PROC. ENG.		

**APPROVED BY**

NAME	P.C. VOLSCHENK	DATE
SIGNATURE		07-03-23
REG. NUMBER	820381	

EST. 2015

**PROJECT No. TNPA 670**  
**UPGRADE OF EXISTING SHIP REPAIR FACILITIES AT THE PORT OF MOSSEL BAY**

**MAIN CRADLE BOGEY A SUB-FRAME INTEGRATION FOR SIDE SUPPORT TOWER & HYDRAULIC DOCKING ARM**

SCALE:	DATE	Drawing Number	CLIENT Drawing Number	Rev.	Sheet size	Status.
1:75	07-03-23	1002-001-4024		B	A1	ISSUED FOR REVIEW