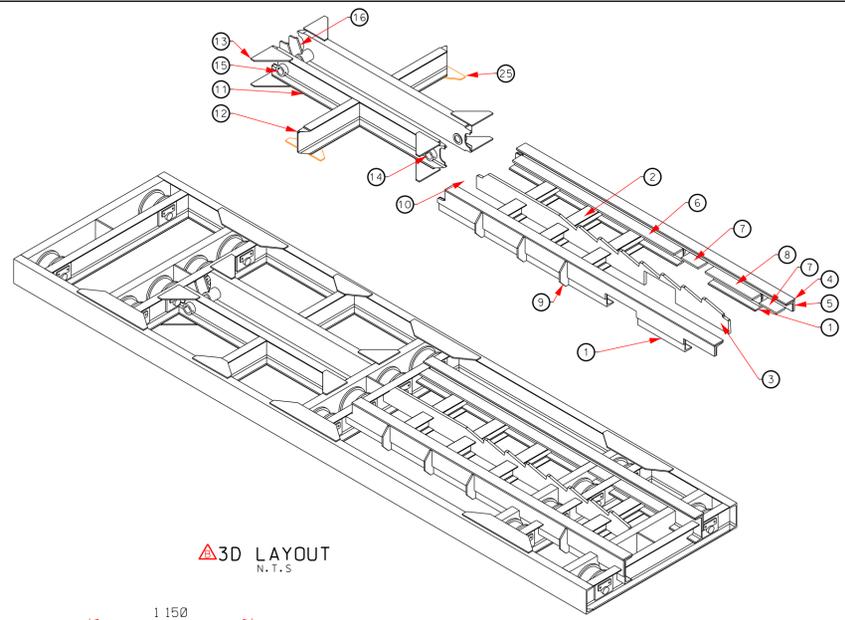
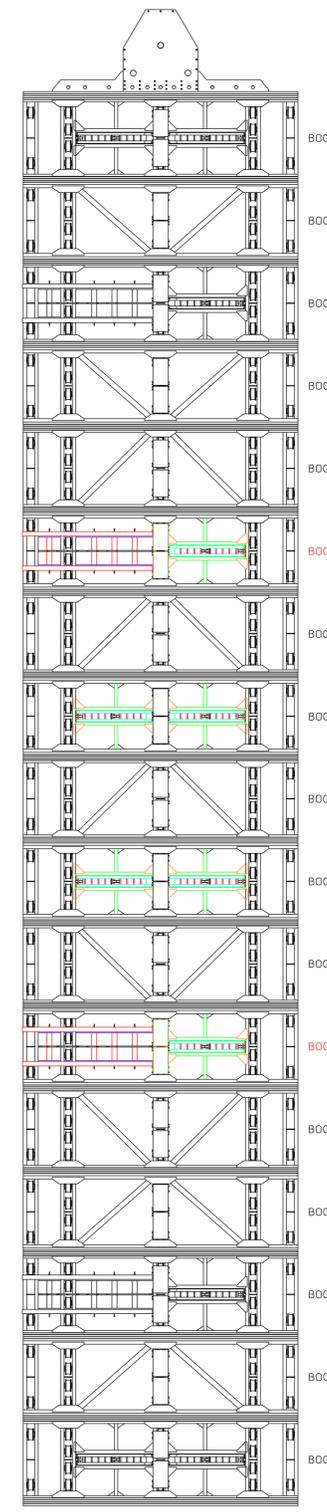


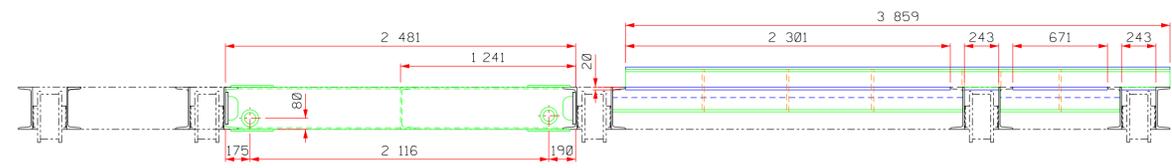
PLAN VIEW



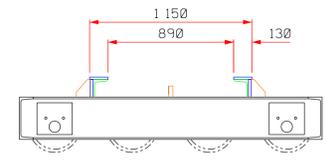
3D LAYOUT N.T.S



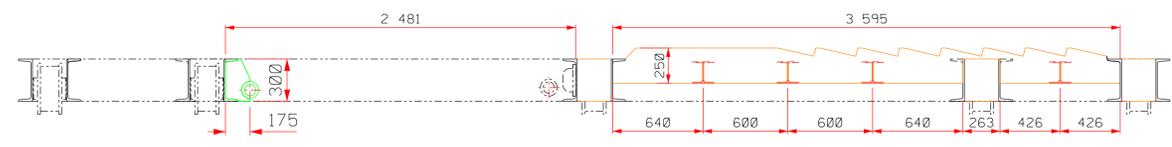
KEY PLAN N.T.S



SECTION A-A



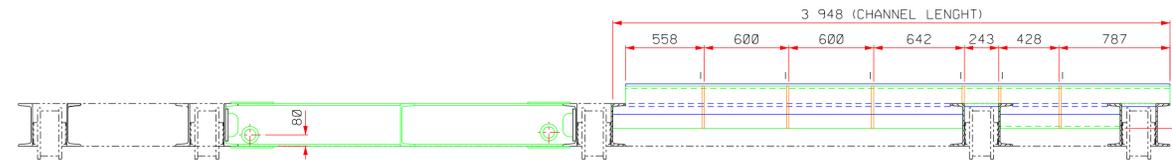
SIDE VIEW



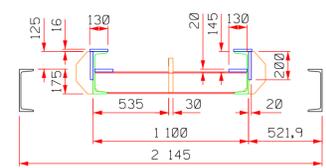
SECTION B-B



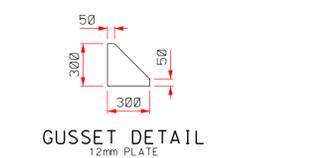
SECTION D-D



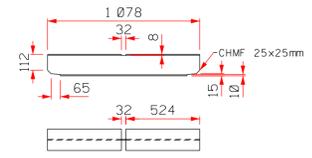
SECTION C-C



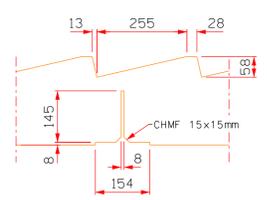
SECTION E-E



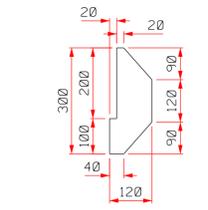
GUSSET DETAIL 12mm PLATE



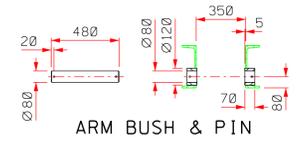
BEAM NOTCH DETAIL H 152x152x23kg/m



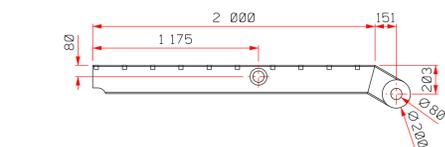
LOCK GROOVE DETAIL SCALE 1:10



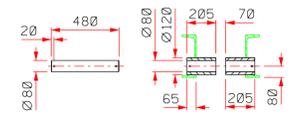
GUSSET DETAIL 16mm PLATE SCALE 1:10



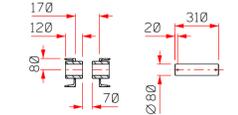
ARM BUSH & PIN



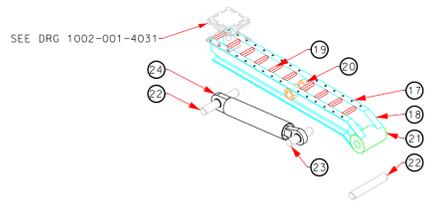
DOCKING ARM DETAIL



CYLINDER BOTTOM BUSH & PIN



CYLINDER TOP BUSH & PIN



3D LAYOUT N.T.S

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= 878mm	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	SQR. 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	DUPLUX S.S
23	1	PIN OD.80mm L= 310mm	DUPLUX S.S
24	1	HYD. CYLINDER (SEE SPEC)	BOUGHT OUT
25	2	GUSSET 500x200x12mm	S355JR

**GENERAL NOTES**

- QUANTITIES GIVEN ARE FOR ONE OFF
- EST. WEIGHT (ITEMS 1 TO 10): 1102Kg
- EST. WEIGHT (ITEMS 11 TO 25): 743Kg
- 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 REMOVED	APM	JD		21/06/23
A	ADDITIONAL HYDRAULIC SUPPORT ARMS	JD	BG		18/05/23

**REVISIONS / ISSUE AUTHORIZATION**

This Document includes all design and information therein is confidential Intellectual Property of LODEMANN Holdings. Copyright and all other rights are reserved by LODEMANN Holdings. This Document may only be used for its intended purpose.

**CLIENT LOGO**

**CLIENT**

TITLE	NAME	DATE

**MAIN CONSULTANT**

TITLE	NAME	DATE
DRAWN	BEN BARKOWITZ	07-03-23
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	

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

**MAIN CRADLE BOGEY B 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	1002-001-4025		B	A1	ISSUED FOR REVIEW