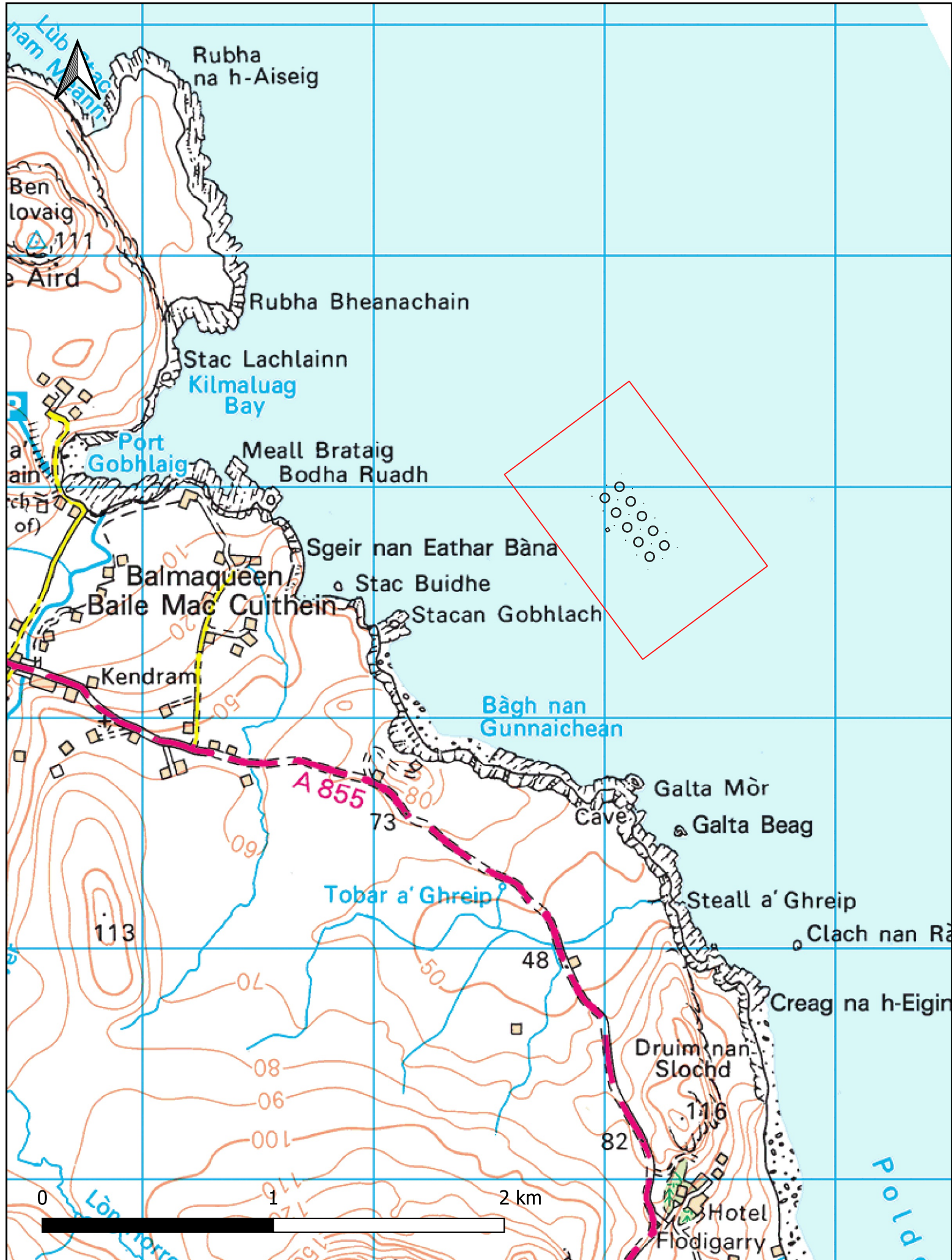




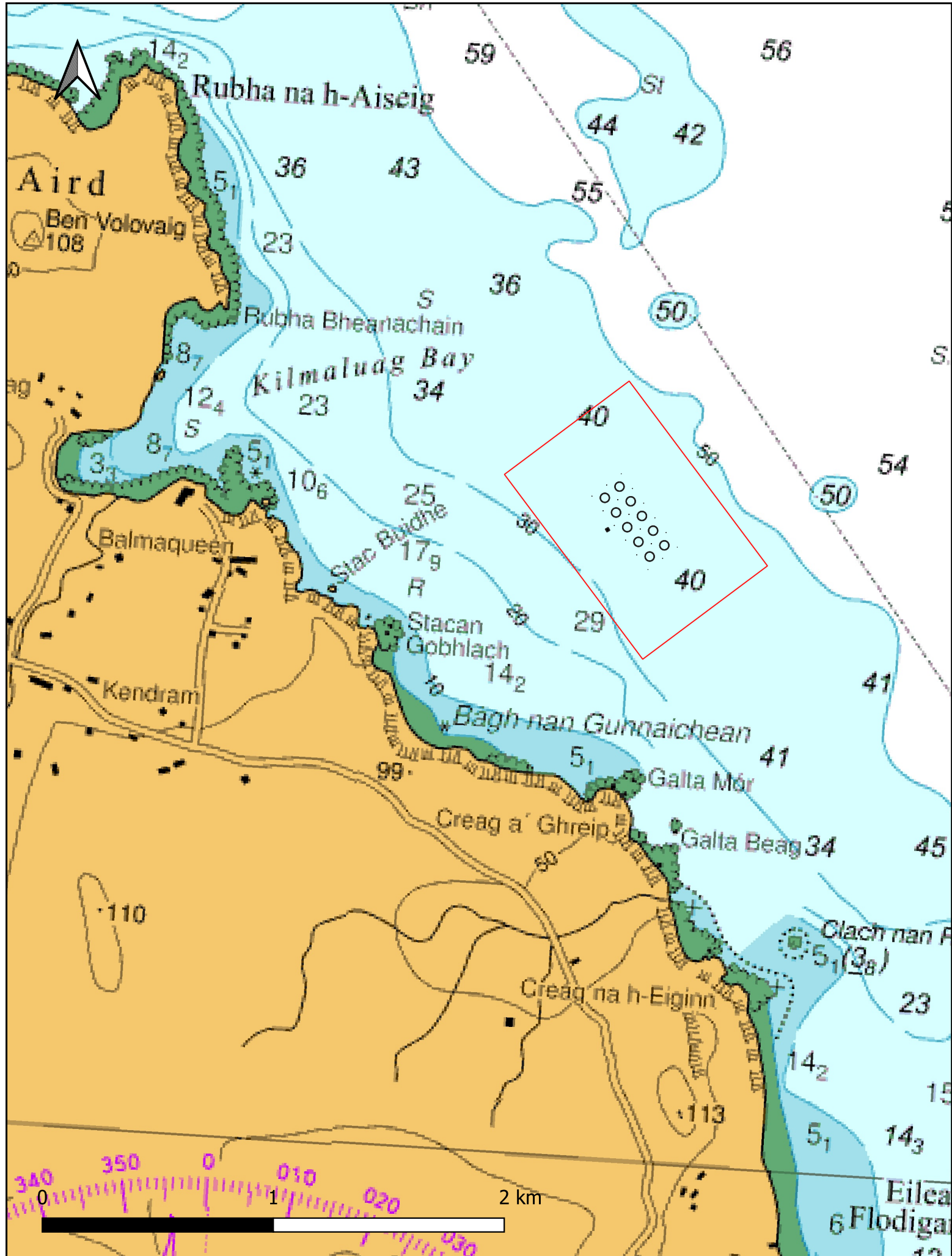
ORGANIC SEA HARVEST - BALMACQUEEN
 FIG 2 - LOCATION PLAN - SHOWING SURFACE EQUIPMENT

REV NO: 1
 STATUS: FINAL
 DATE: 21/11/2023
 DRAWN BY: JGB
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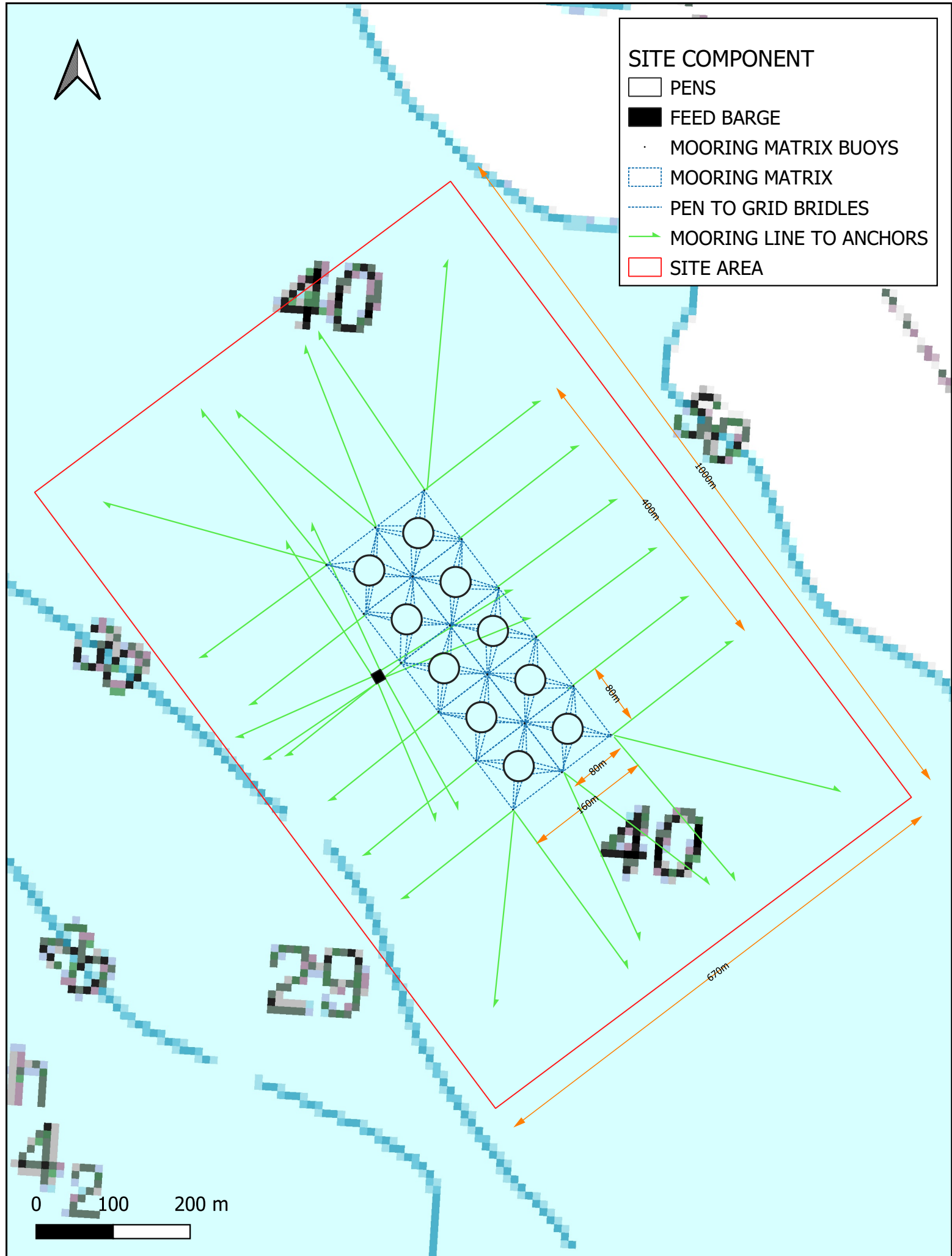
ORGANIC SEA HARVEST - BALMACQUEEN
FIG 2 - LOCATION PLAN - SHOWING SURFACE EQUIPMENT

REV NO: 1
STATUS: FINAL
DATE: 21/11/2023
DRAWN BY: JGB
CHECKED BY: CLIENT

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SITE COMPONENT

PENS

FEED BARGE

MOORING MATRIX BUOYS

MOORING MATRIX

PEN TO GRID BRIDLES

MOORING LINE TO ANCHORS

SITE AREA

ORGANIC SEA HARVEST - BALMACQUEEN
 FIG 4 - SITE PLAN - SHOWING EQUIPMENT COMPONENTS
 NOTE - MOORING LAYOUT SUBJECT TO MICROSITING

REV NO: 1
 STATUS: FINAL
 DATE: 21/11/2023
 DRAWN BY: JGB
 CHECKED BY: CLIENT

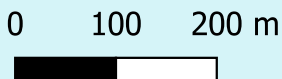
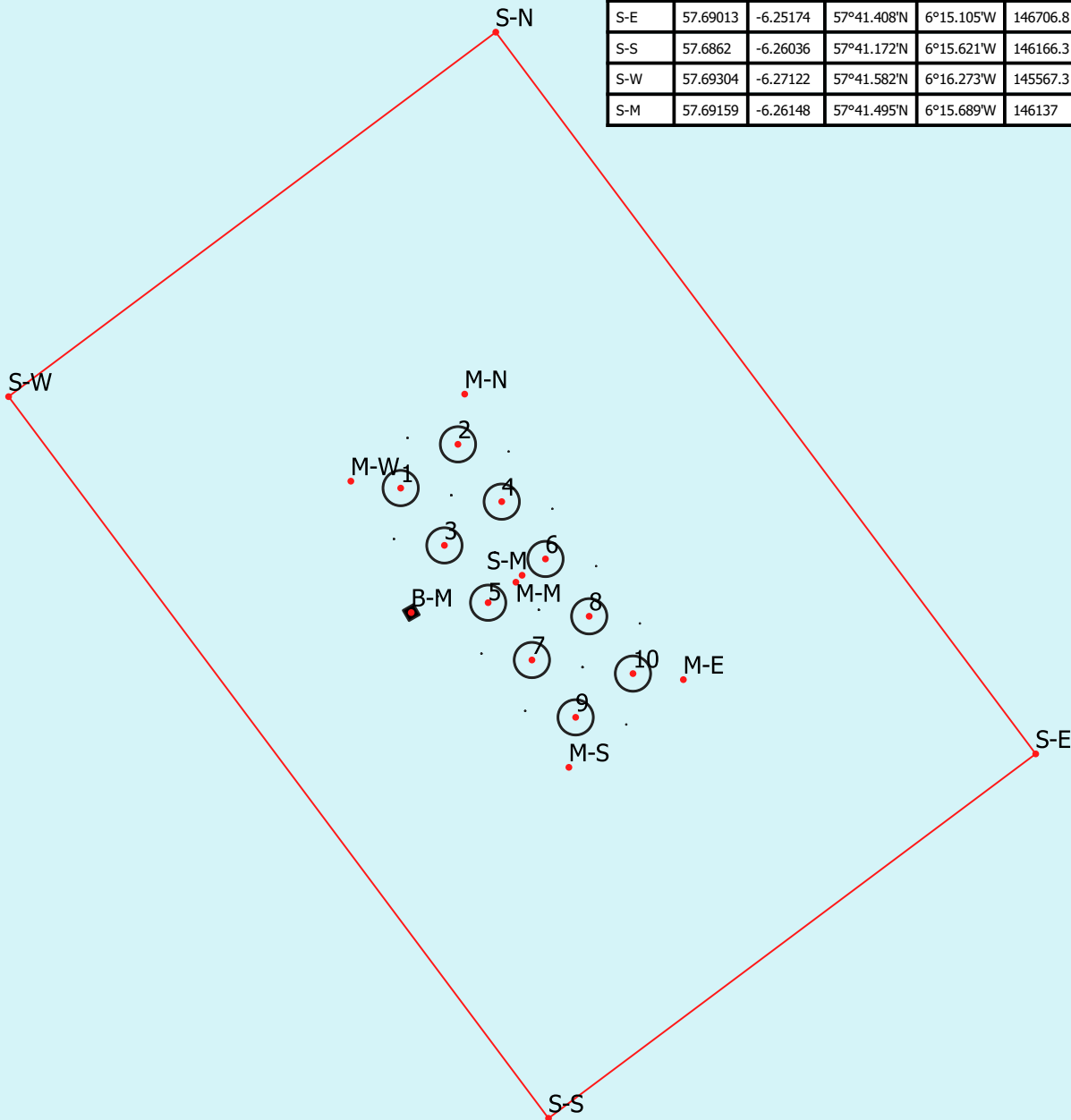
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POINT	LAT DD	LONG DD	LAT DM	LONG DM	EASTING	NORTHING	NGR
1	57.69238	-6.26384	57°41.543'N	6°15.83'W	146002.3	874950.1	NG 46002 74950
2	57.69285	-6.26283	57°41.571'N	6°15.77'W	146065.8	874998.7	NG 46065 74998
3	57.69183	-6.26296	57°41.51'N	6°15.778'W	146050.8	874886.6	NG 46050 74886
4	57.6923	-6.26195	57°41.538'N	6°15.717'W	146114.4	874935.1	NG 46114 74935
5	57.69129	-6.26208	57°41.477'N	6°15.725'W	146099.3	874823	NG 46099 74822
6	57.69176	-6.26107	57°41.506'N	6°15.664'W	146162.9	874871.5	NG 46162 74871
7	57.69075	-6.2612	57°41.445'N	6°15.672'W	146147.9	874759.4	NG 46147 74759
8	57.69122	-6.26019	57°41.473'N	6°15.611'W	146211.4	874807.9	NG 46211 74807
9	57.69021	-6.26032	57°41.412'N	6°15.619'W	146196.4	874695.8	NG 46196 74695
10	57.69068	-6.25931	57°41.441'N	6°15.559'W	146260	874744.3	NG 46259 74744
B-M	57.69115	-6.2635	57°41.469'N	6°15.81'W	146014	874812	NG 46014 74812
M-N	57.69335	-6.26276	57°41.601'N	6°15.766'W	146073.3	875054.4	NG 46073 75054
M-E	57.69065	-6.25837	57°41.439'N	6°15.502'W	146315.9	874737.6	NG 46315 74737
M-S	57.68971	-6.26039	57°41.382'N	6°15.623'W	146188.9	874640.3	NG 46188 74640
M-W	57.69241	-6.26477	57°41.545'N	6°15.886'W	145947	874957.8	NG 45947 74957
M-M	57.69151	-6.26159	57°41.491'N	6°15.695'W	146130.1	874845.7	NG 46130 74845
S-N	57.69697	-6.26261	57°41.818'N	6°15.756'W	146107.8	875456	NG 46107 75455
S-E	57.69013	-6.25174	57°41.408'N	6°15.105'W	146706.8	874655.2	NG 46706 74655
S-S	57.6862	-6.26036	57°41.172'N	6°15.621'W	146166.3	874250.9	NG 46166 74250
S-W	57.69304	-6.27122	57°41.582'N	6°16.273'W	145567.3	875051.6	NG 45567 75051
S-M	57.69159	-6.26148	57°41.495'N	6°15.689'W	146137	874853.4	NG 46137 74853



3rd Angle Projection			<i>If In Doubt Ask ~ Do Not Scale</i>		<i>Dimensions are in mm</i>		Date	Rev	Details of Revision
Job Number	Customer		Date	Base Type	Uprights per Pen				

Hinadrail Pins + R Hooks
All 48 Stanchions Pinned with Long H.R Pin coupled with 48 x Single R Hooks

Security Chain
124m Security chain fitted in the Inner Retaining Pipe and Secured with Shackle

Stanchion Pins
All 48 Stanchions Pinned with 2 x Pin Triton 140mm SDR9 upright socket PE blue

PS Infill

Cow Horn Hooks
Cow Horn Hooks Fitted Every Second Stanchion at 24 Points Shown on Sheet 2. For Fitting Details See Drawing XXXX

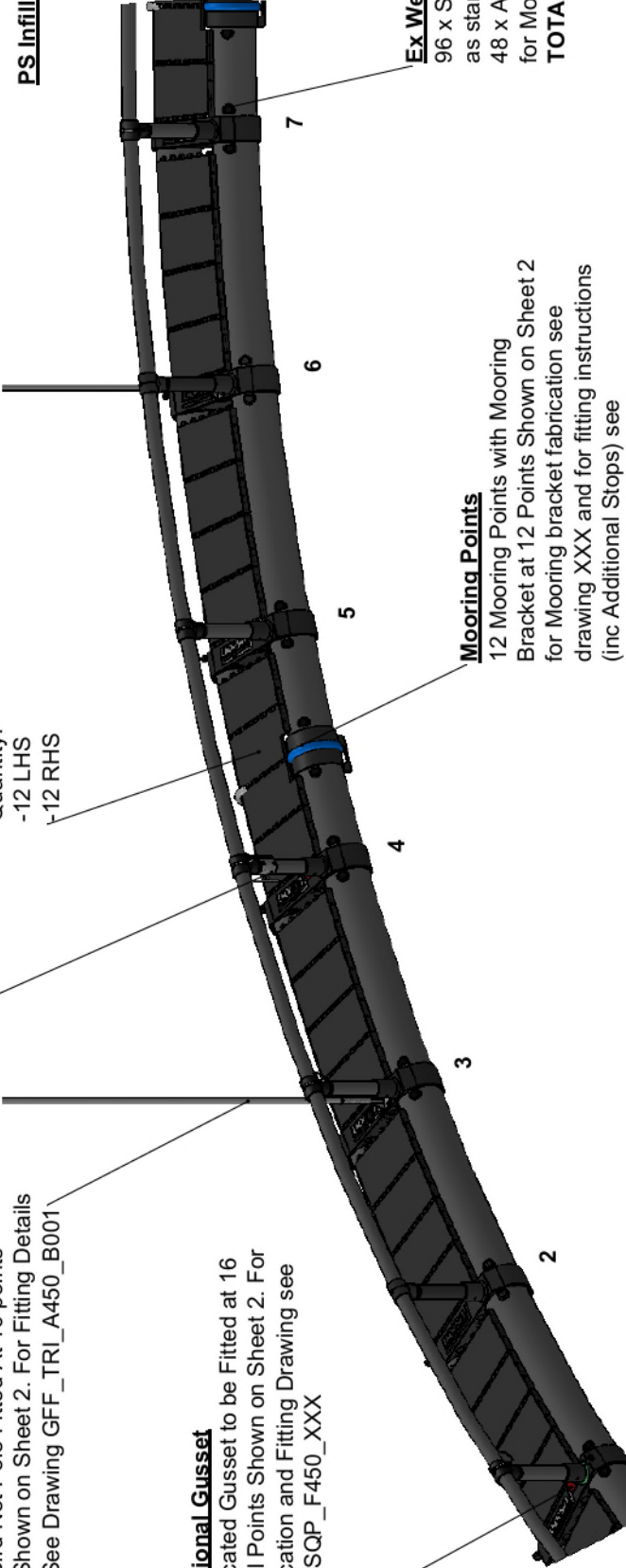
Modified Decks
Decks either side of mooring Bracket to be modified as per drawing XXX.
Quantity:
-12 LHS
-12 RHS

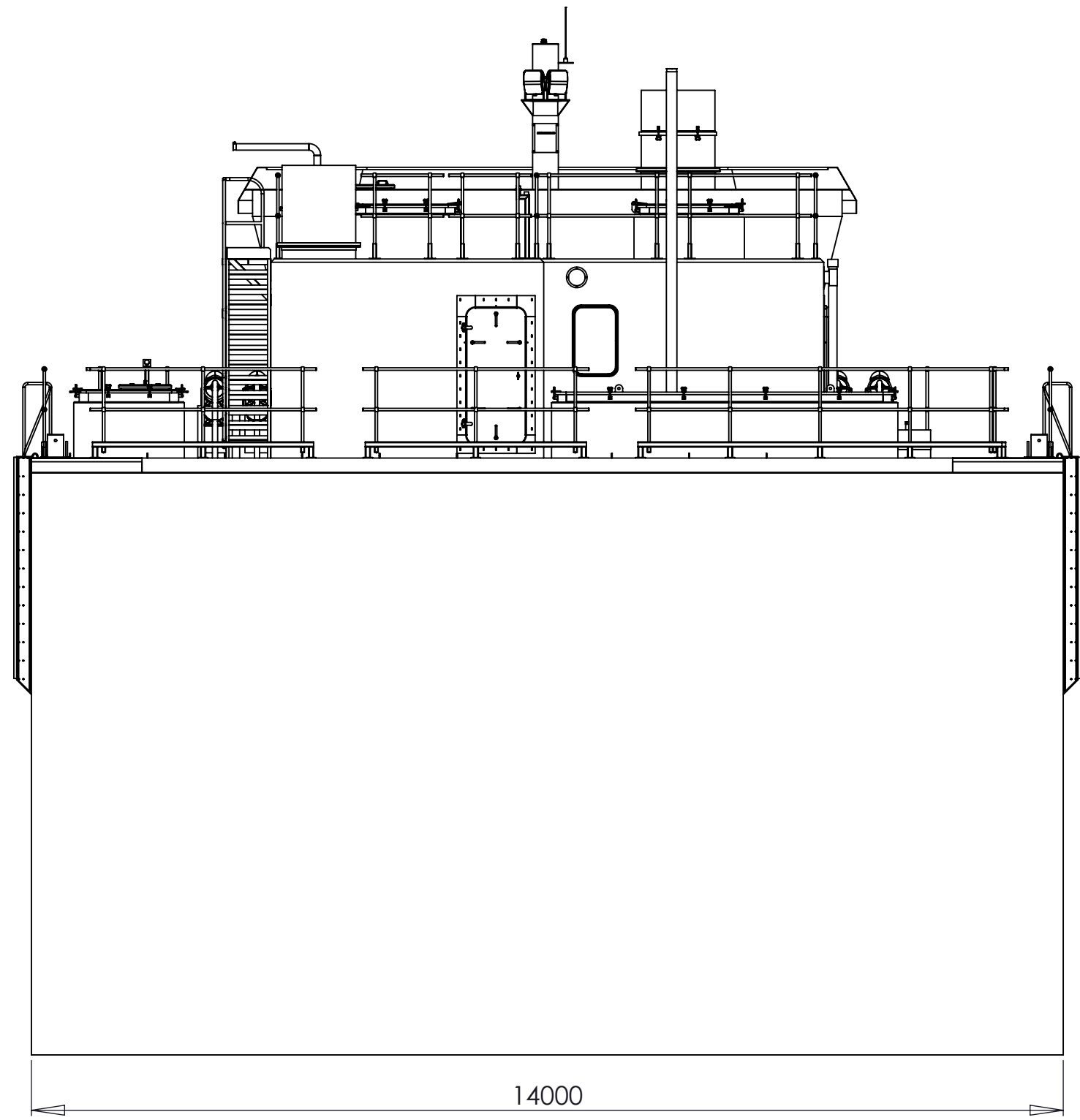
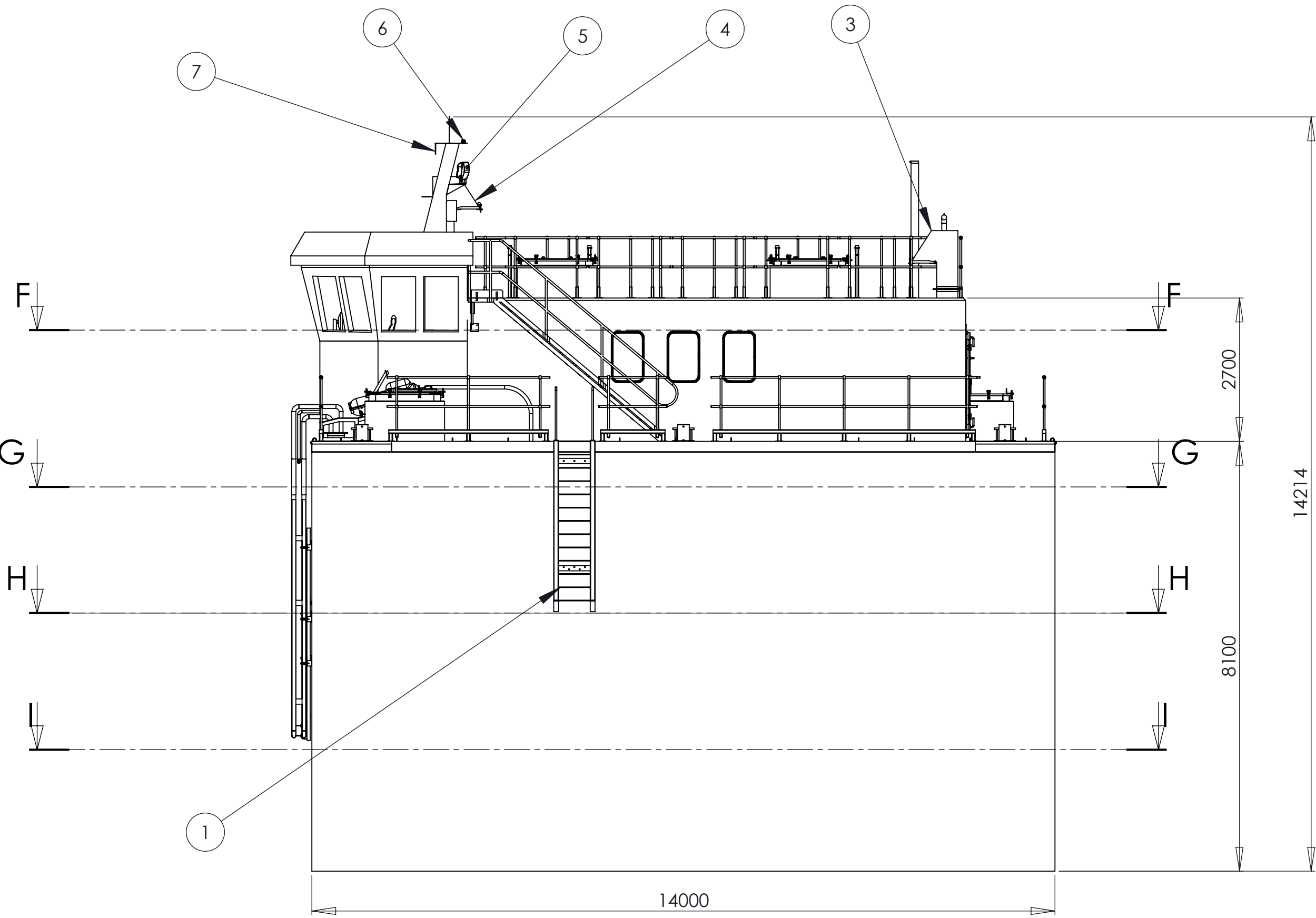
Bird Net Support Bracket
Bird Net Pole Fitted At 16 points Shown on Sheet 2. For Fitting Details See Drawing GFF_TRI_A450_B001

Additional Gusset
Fabricated Gusset to be Fitted at 16 Equall Points Shown on Sheet 2. For Fabrication and Fitting Drawing see GFF_SQP_F450_XXX

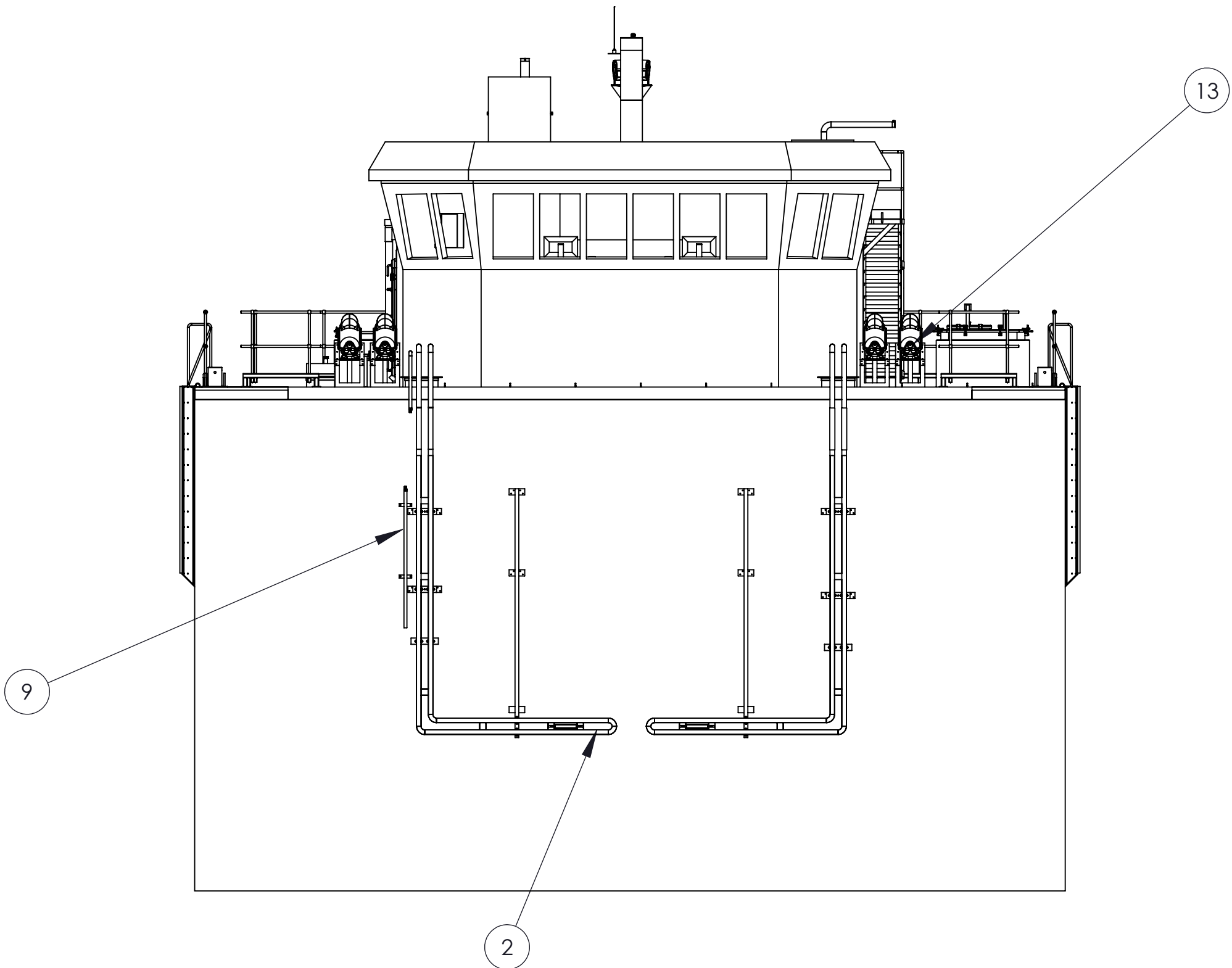
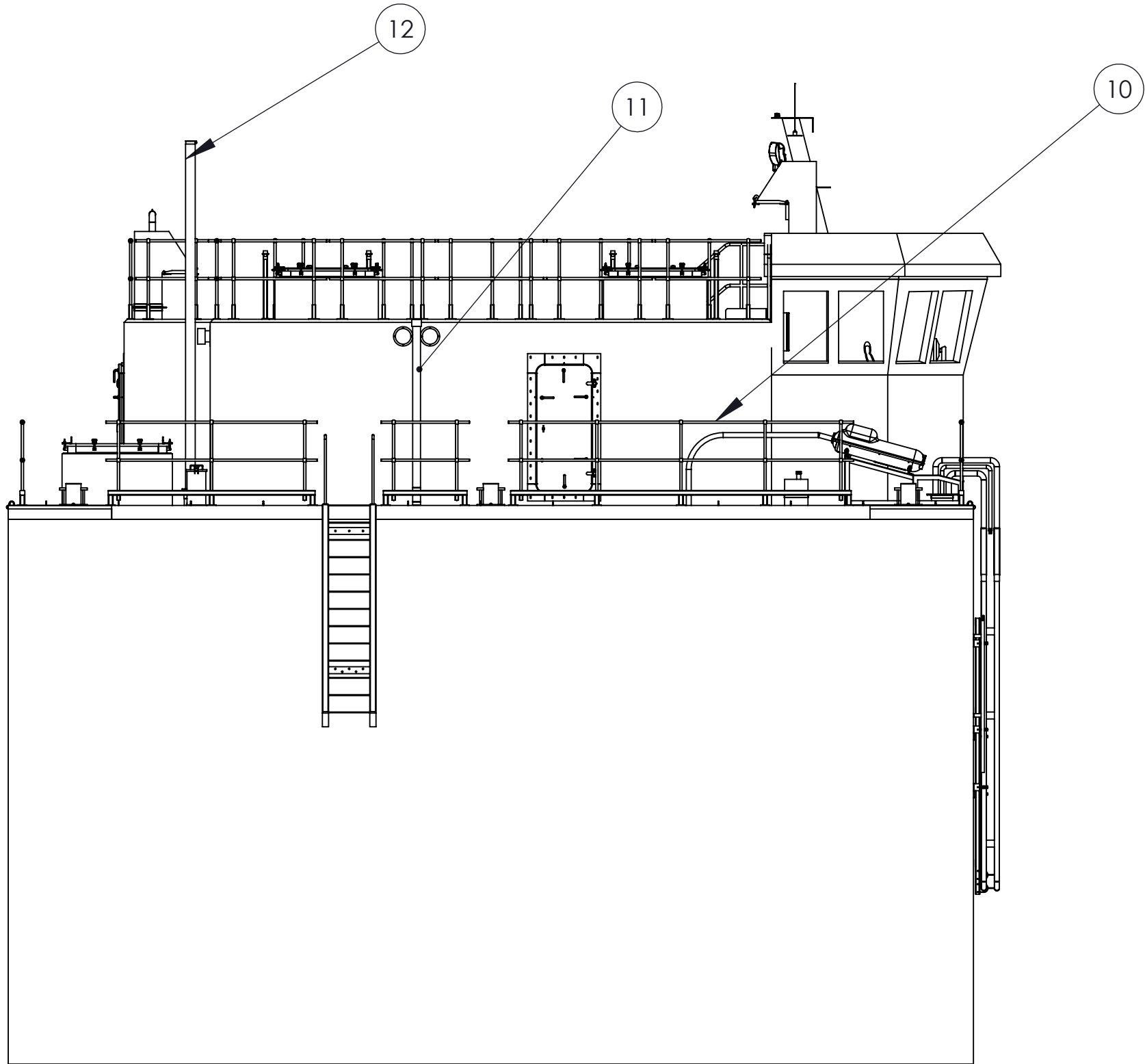
Mooring Points
12 Mooring Points with Mooring Bracket at 12 Points Shown on Sheet 2 for Mooring bracket fabrication see drawing XXX and for fitting instructions (inc Additional Stops) see

Ex Weld Stops
96 x Stops fitted at every base as standard. See drawing XX.
48 x Additional Stops Required for Mooring Points
TOTAL STOPS = 144

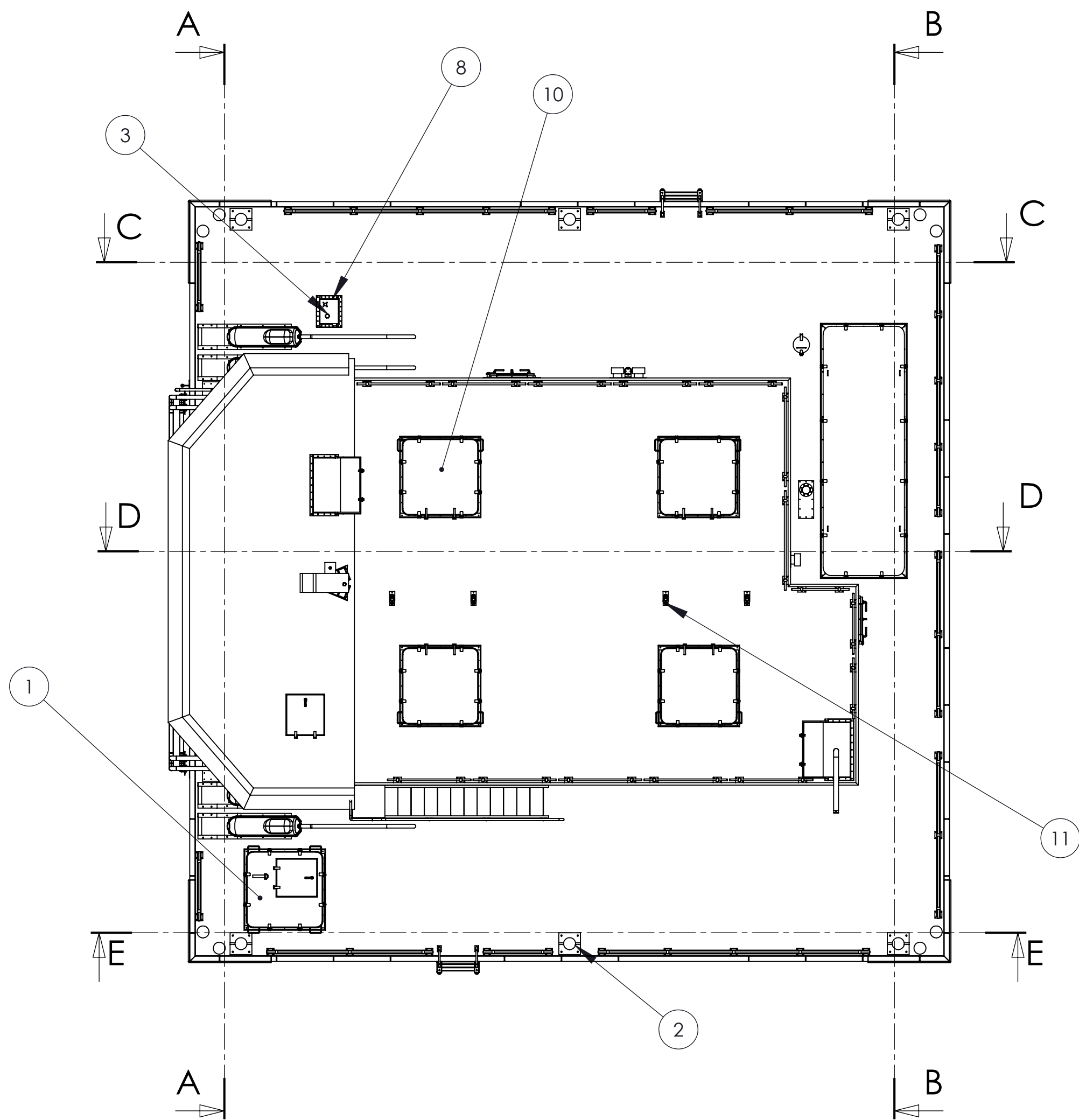




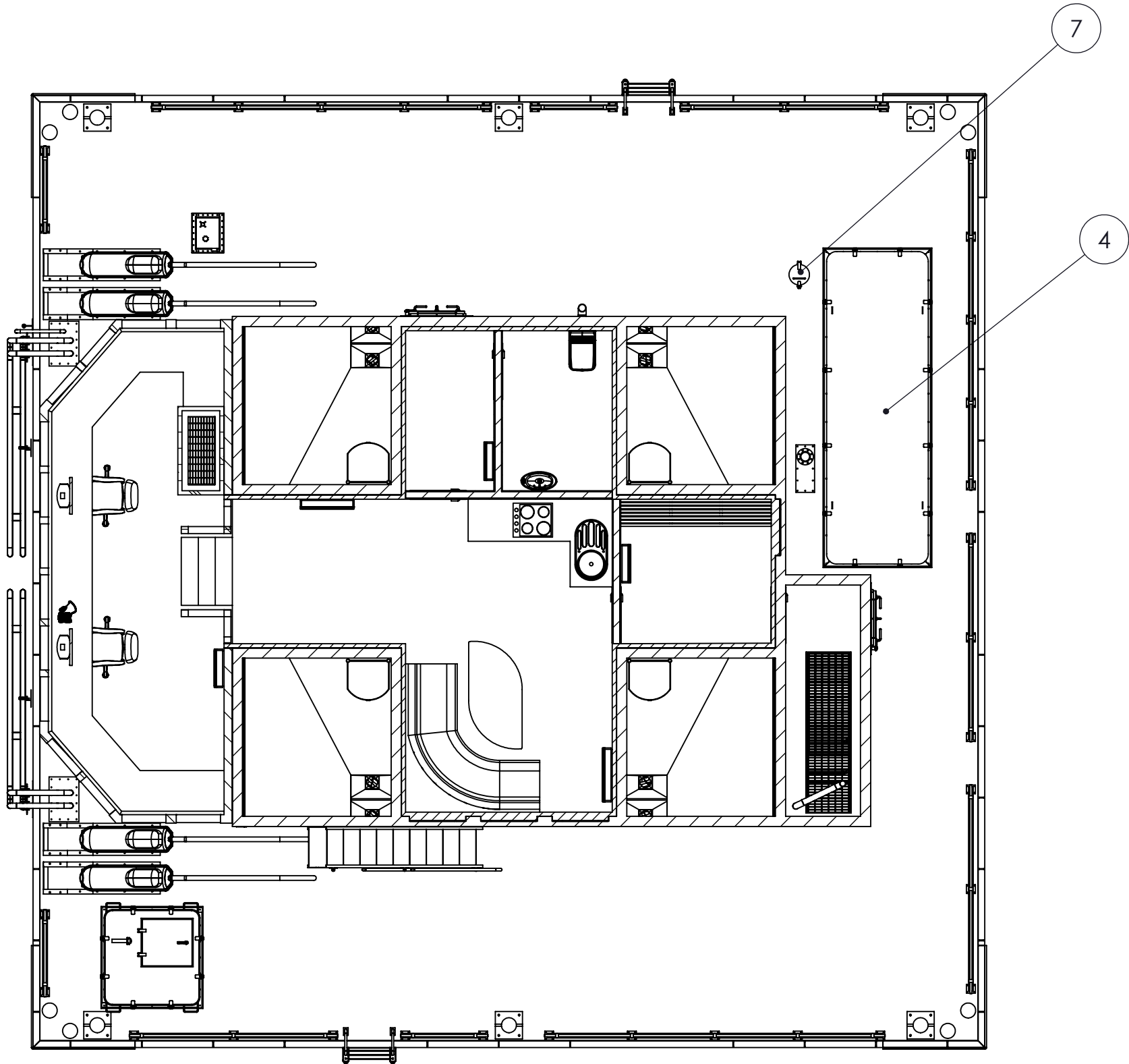
ITEM	QTY	DESCRIPTION
1	2	LADDER
2	1	COOLING TUBES
3	1	TALL VENT
4	1	GENERATOR VENT
5	1	70W DECK LIGHT
6	1	ALL ROUND WHITE LIGHT
7	1	FEED SYSTEM ANTENNA
8	1	RADIO ANTENNA
9	1	GREY WATER OUTLET
10	8	HANDRAILS
11	1	CINDERELLA FLUE
12	1	GENERATOR EXHAUST
13	4	SELECTORS
14	1	CRANE



REVISION HISTORY				NAME		DATE		MATERIAL:		SHEET SCALE:		ORG. NO.	
REV	DATE	COMMENT	DRAWN BY	APPVD BY	DRAWN	N. MacDonald	03/10/2016	WEIGHT:	N/A Kg.	SHEET SIZE	A1	TITLE:	GFE_SM_SSC_350_GA_00001
A	03/11/2016	ORIGINAL RELEASE	N. MacDonald	J. Offord	CHKD	J. Offord	03/11/2016	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		3rd ANGLE PROJECTION		PROJECT:	Seamate 350
					APPVD			FINISH:	Ra in µm - ISO 1302 DEBURR & BREAK SHARP EDGES	TOLERANCES (UNOS):		SYSTEM:	GENERAL ARRANGEMENT
								REFERENCED DOCUMENT (NO. / TITLE)		GEN. TOL. WELDED PARTS: ISO 15629-BF		RELEASE NOTE:	RELEASED
										CHAMFERS: ISO 15715 (DIN 6784)		REVISION	A
												SHEET:	1 OF 3

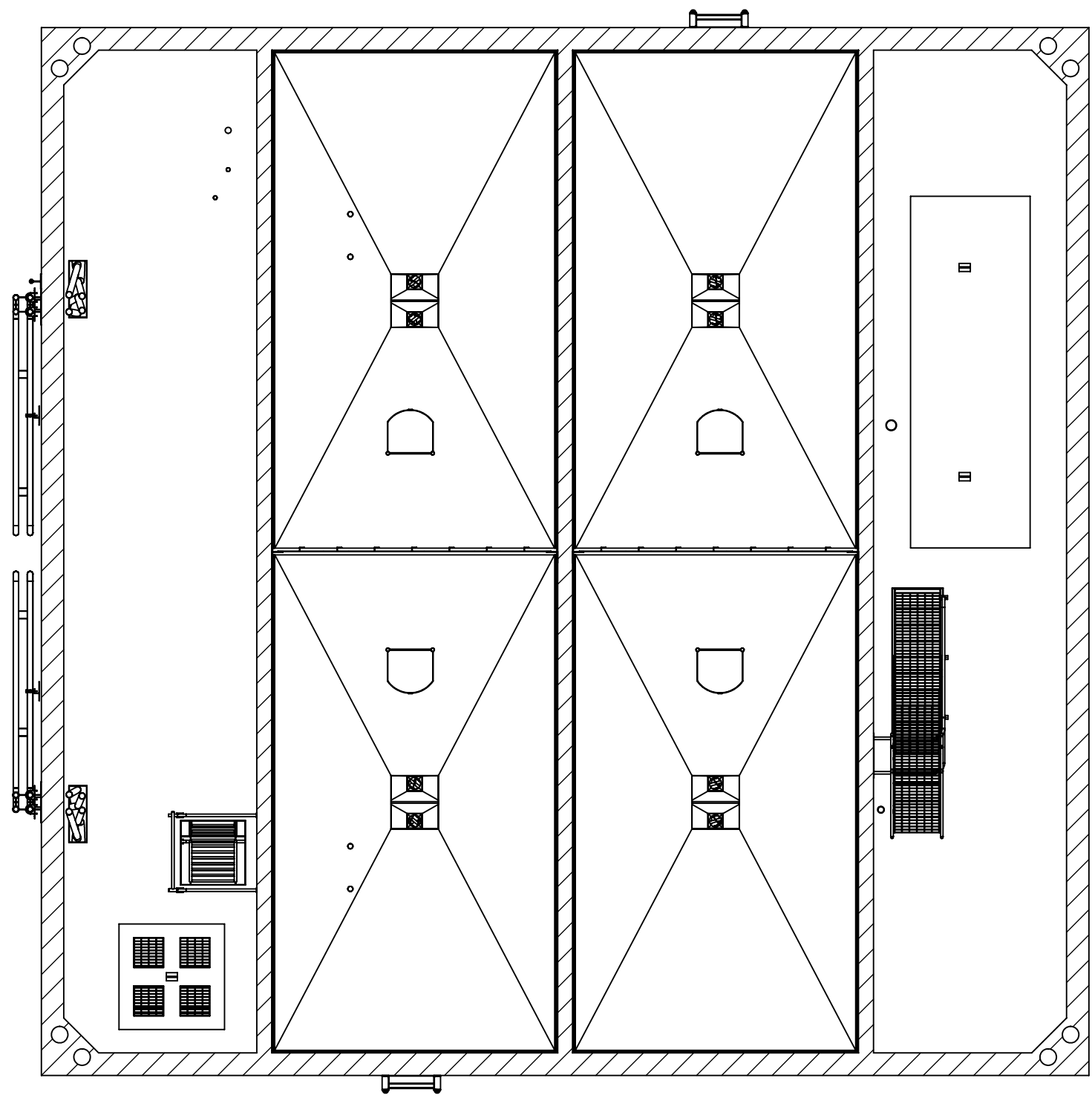


SECTION G-G

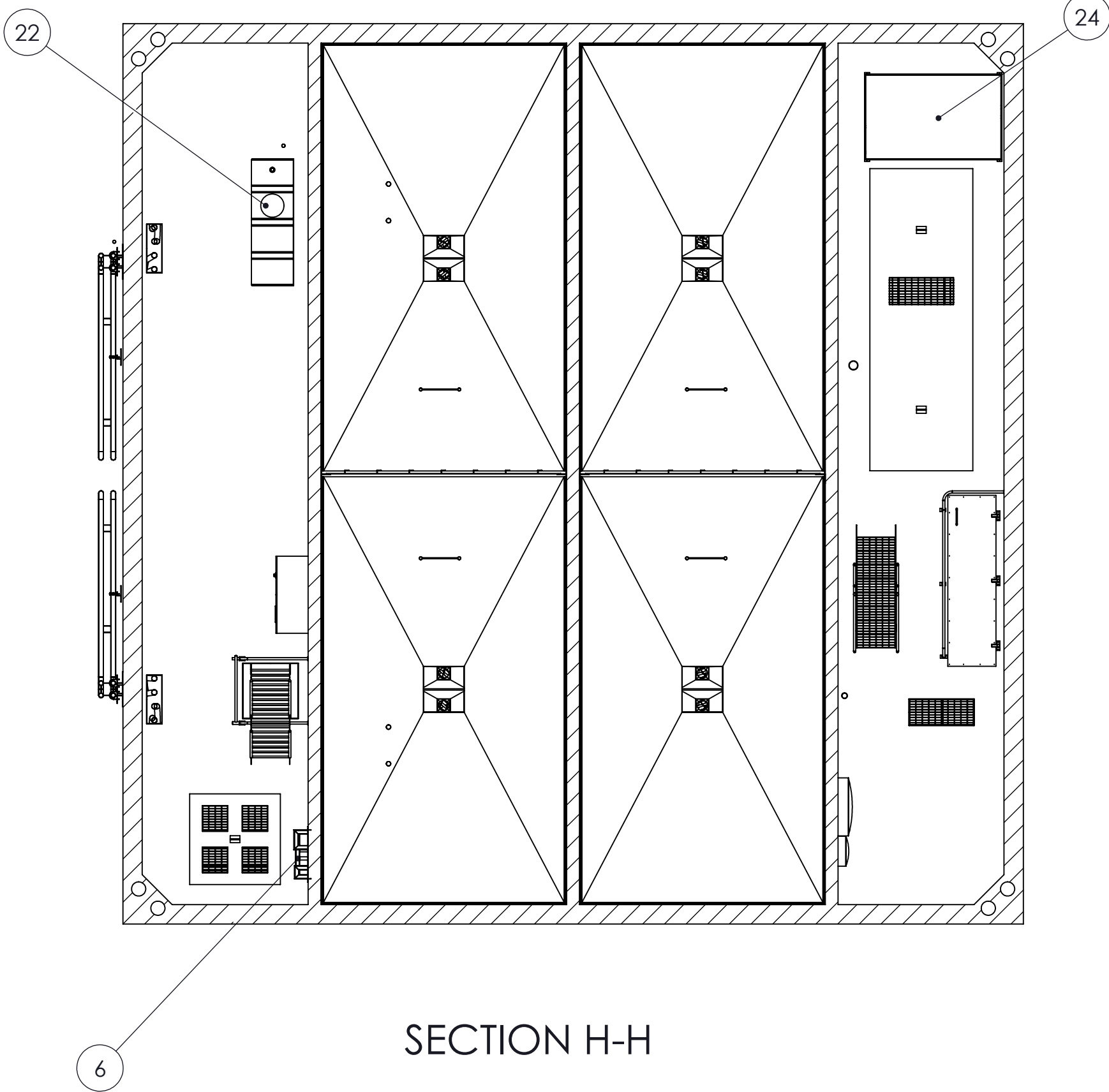


SECTION F-F

ITEM NO.	QTY	DESCRIPTION
1	1	BLOWER HATCH
2	9	BOLLARDS
3	1	HYDRAULIC BOX
4	1	GENERATOR HATCH
5	1	GENERATOR HATCH COVER
6	1	12V PANEL
7	1	DIESEL INLET
8	1	FRESH WATER INLET
9	4	AIR PRESSURE SENSOR
10	4	SILO HATCH
11	4	SILO LID SUPPORT
12	1	FRESH WATER PUMP
13	4	MOORING TUBE
14	4	SELECTOR SUPPLY
15	1	HOT WATER CYLINDER
16	4	SELECTOR
17	4	BILGE PUMP
18	1	BATHROOM
19	1	DRYING ROOM
20	4	SILO
21	1	GENERATOR
22	1	WATERTANK
23	4	BLOWER
24	1	FUEL TANK
25	1	D/B 3
26	1	COMPRESSOR

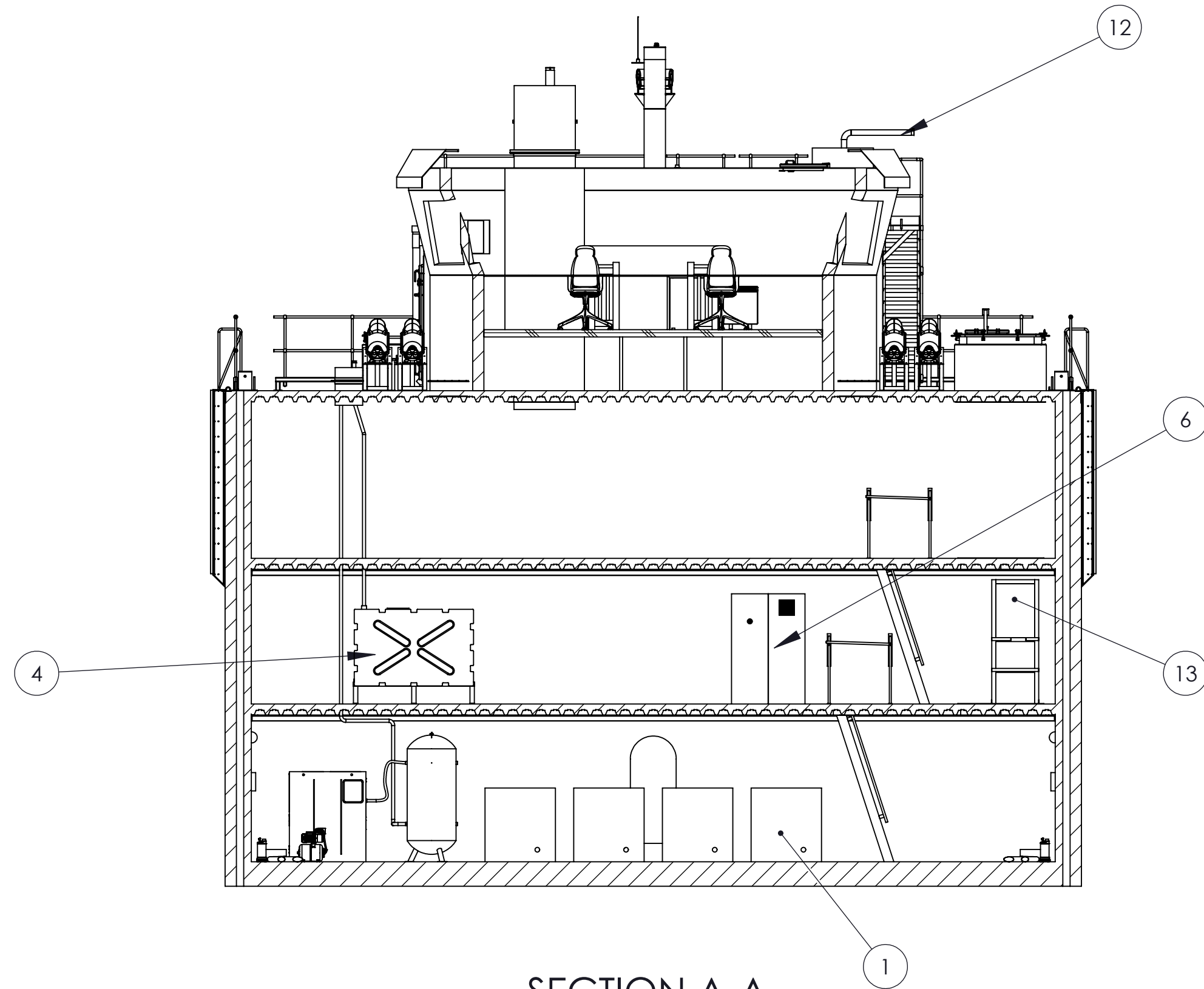


SECTION H-H

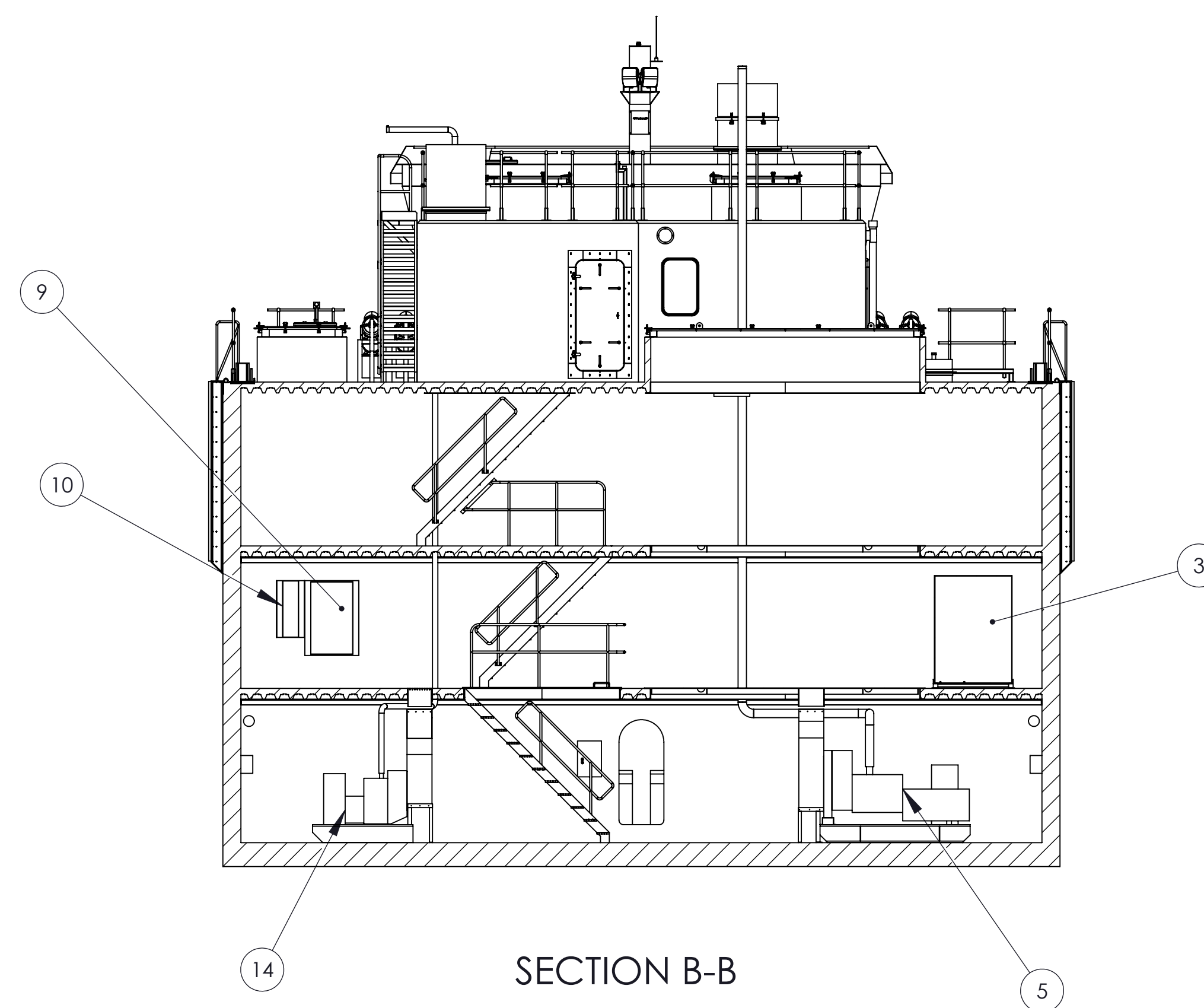


SECTION I-I

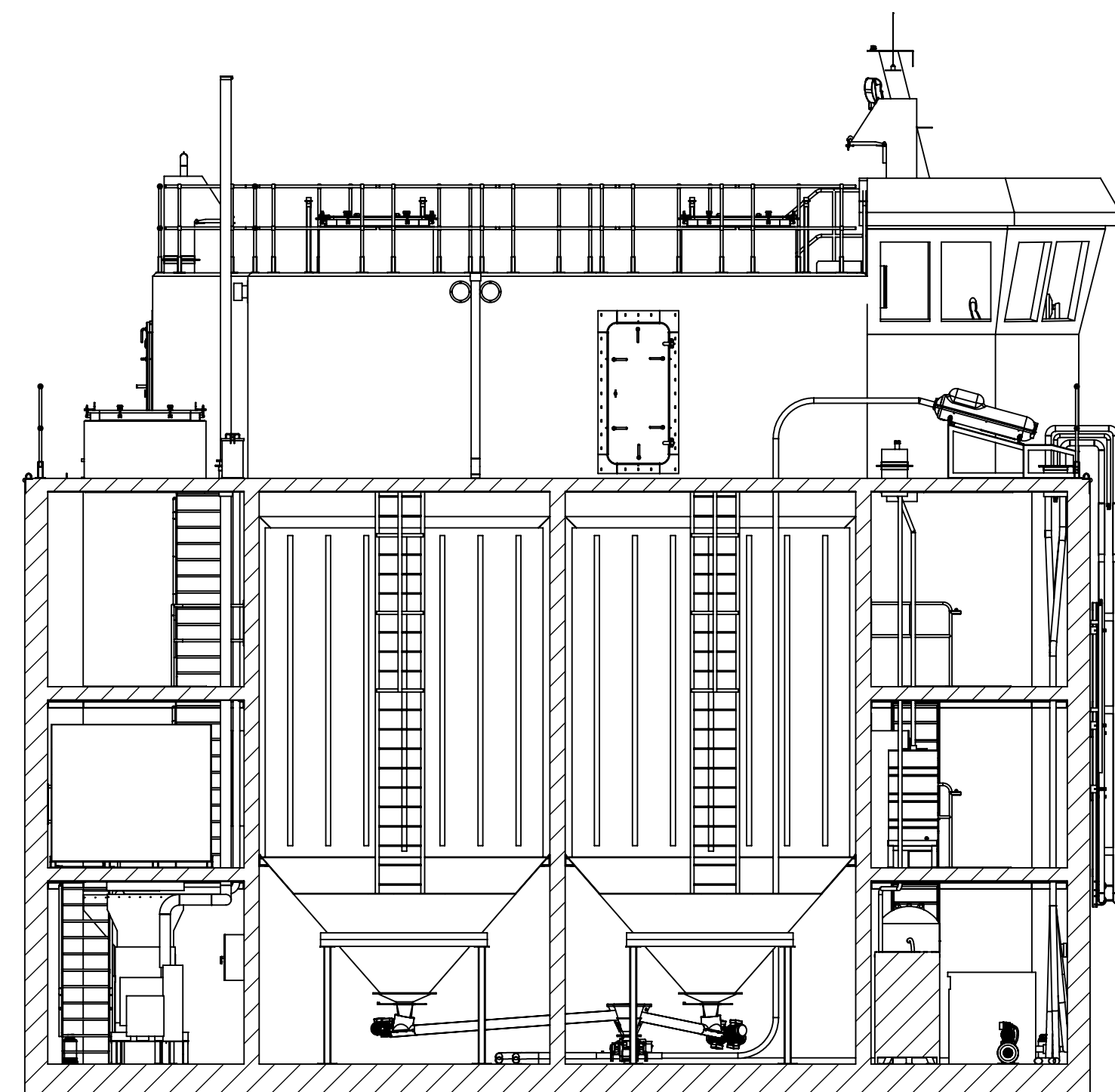
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REV	DATE	COMMENT	DRAWN BY	APPVD BY	DRAWN	DATE	NOT APPLICABLE	1:75	GFE_SM_SSC_350_GA_00001
A	03/11/2016	ORIGINAL RELEASE	N. MacDonald	J. Offord	N. MacDonald	03/10/2016	WEIGHT: N/A Kg.	SHEET SIZE: A1	TITLE: SECTION VIEWS
							UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS	3rd ANGLE PROJECTION	PROJECT: Seamate 350
							FINISH: Ra in µm - ISO 1302 DEBURR & BREAK SHARP EDGES	TOLERANCES (UMS): DIM - <4000mm ISO 2768-K-E DIM - >4000mm DIN 7186-T	SYSTEM: GENERAL ARRANGEMENT
							THIS DRAWING IS COPYRIGHT AND IS THE PROPERTY OF GAEFORCE ENGINEERING LTD. IT MUST NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT THE WRITTEN CONSENT OF GAEFORCE ENGINEERING LTD.	GEO- <3000mm ISO 2768-K-E METR. >3000mm DIN 7186-T TOL.	RELEASE NOTE: RELEASED
							REFERENCED DOCUMENT (NO. / TITLE)	GEN. TOL. WELDED PARTS: ISO 15029-BF	REVISION
								CHAMFERS: ISO 15715 (DIN 6784)	A
									2 OF 3



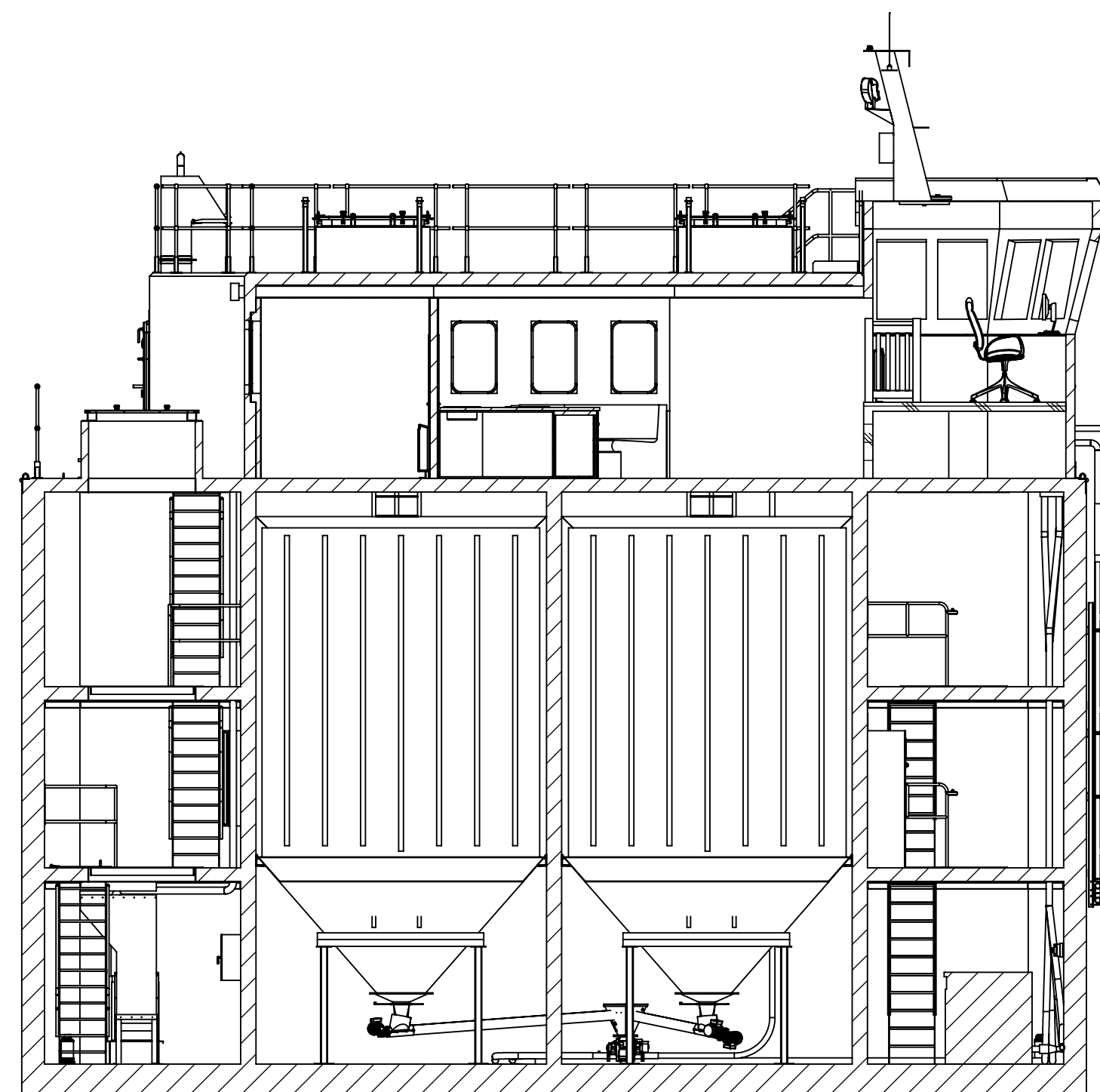
SECTION A-A



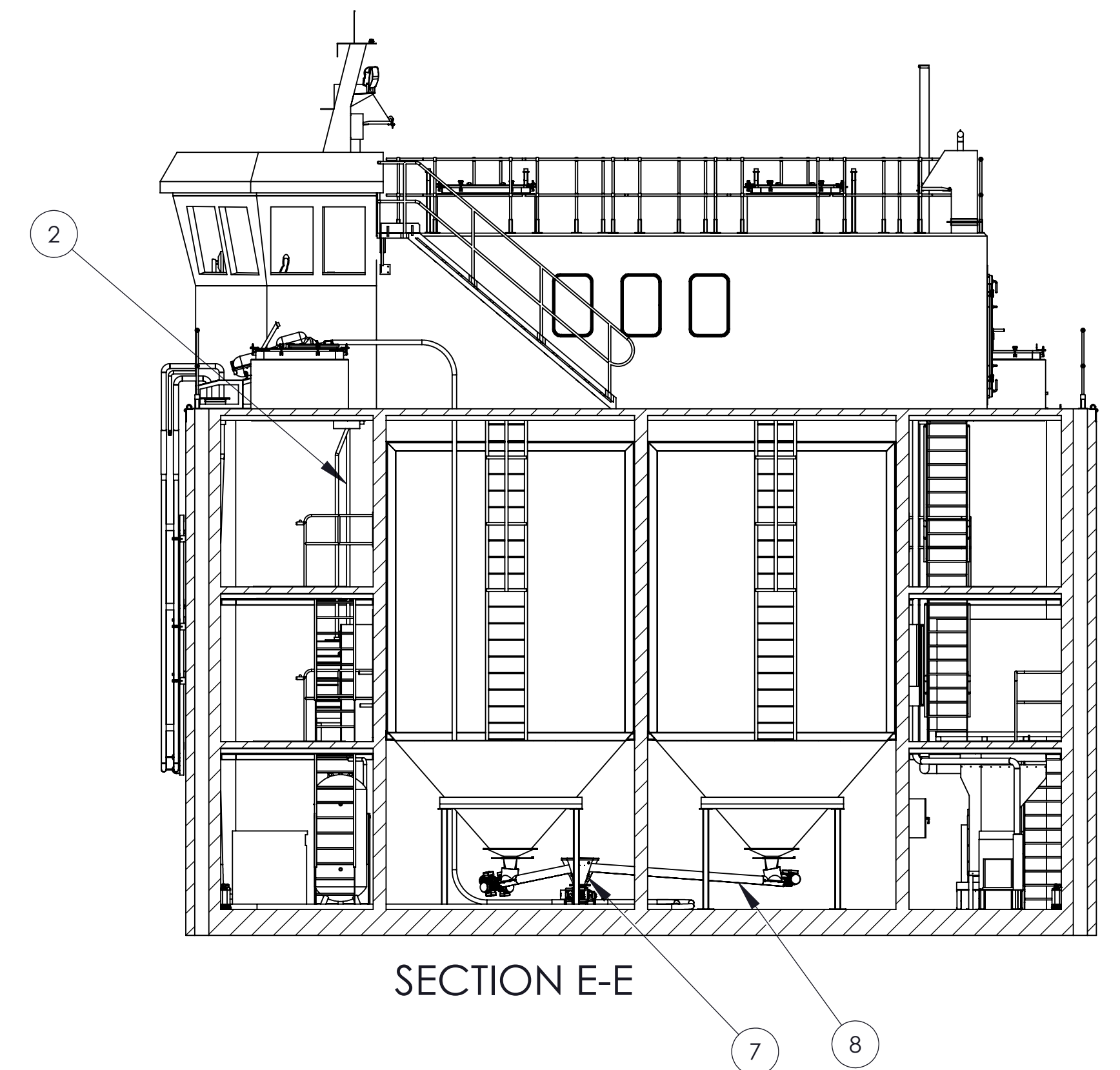
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

ITEM	QTY	DESCRIPTION
1	4	BLOWER
2	1	ESCAPE LADDER
3	1	DIESEL FUEL TANK
4	1	FRESH WATER TANK
5	1	GENERATOR 1
6	1	FEED PANEL
7	4	SLUICE
8	4	AUGER
9	1	D/B 1
10	1	D/B 2
11	1	SELECTOR SUPPLY PANEL
12	1	EXHAUST
13	1	12V PANEL
14	1	GENERATOR 2

REVISION HISTORY			NAME	DATE	MATERIAL	SHEET SCALE	ORG. NO.
REV	DATE	COMMENT	DRAWN BY	APPVD BY	DRAWN	NOT APPLICABLE	GFE_SM_SSC_350_GA_00001
A	02/11/2016	ORIGINAL RELEASE	N. MacDonald	J. Offord	N. MacDonald	WEIGHT: N/A Kg.	TITLE: SECTION VIEWS
			CHKD	J. Offord	03/11/2016	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS	PROJECT: Seamate 350
			APPVD			FINISH: Ra in µm - ISO 1302 DEBURR & BREAK SHARP EDGES	SYSTEM: GENERAL ARRANGEMENT
			REFERENCED DOCUMENT (NO. / TITLE)			TOLERANCES (UMS): DIM- <4500mm ISO 2768-K-E DIM- >4500mm DIN 7186-T	RELEASE NOTE: RELEASED
						GEO- <3000mm ISO 2768-K-E METR. >3000mm DIN 7186-T	REVISION: A
						GEN. TOL. WELDED PARTS: ISO 15029-BF	SHEET: 3 OF 3
						CHAMFERS: ISO 15715 (DIN 6784)	

Figure 8 - Elevation Diagrams

Notes:

- 1- These figures show pens, nets, feedbarges and their spatial relationships.
- 2- The thickness of all ropes, moorings and pen structures, is exaggerated
- 3- Angle of mooring legs is representative and will change with tide and wind across the sites

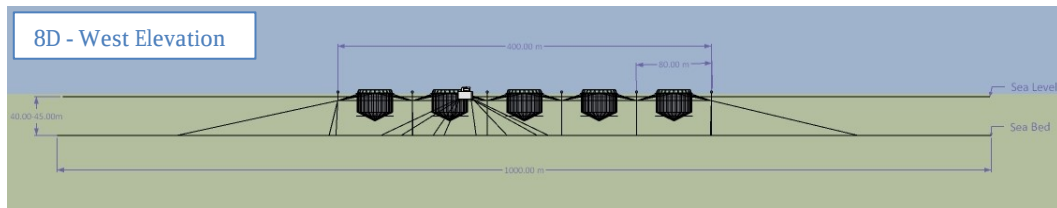
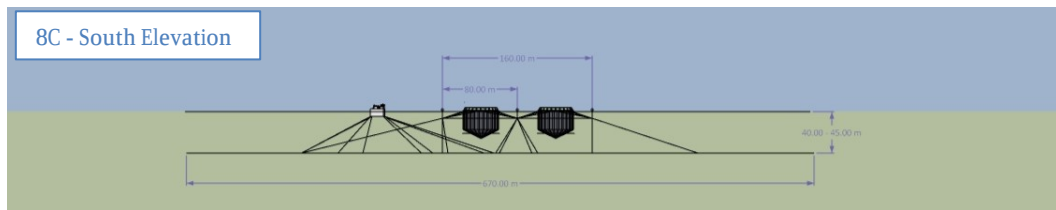
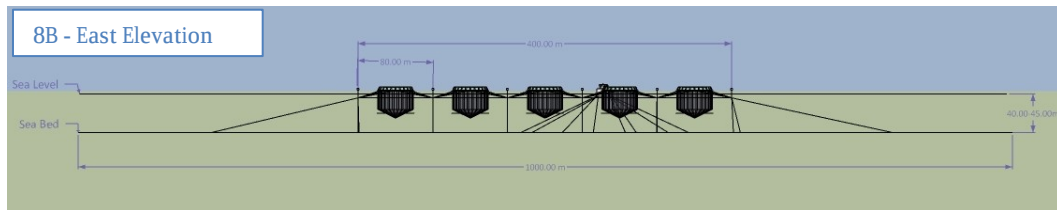
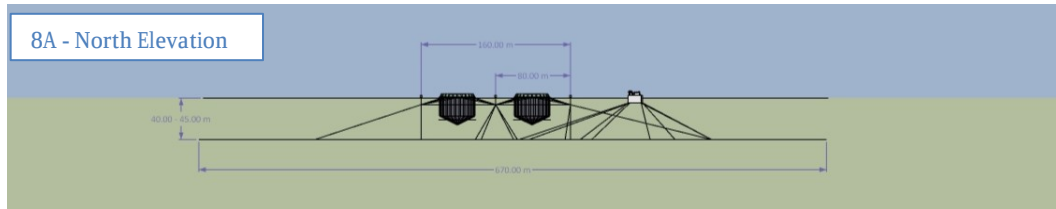


Figure 9 - Top-Nets

Top-nets will be fitted to all pens to restrict predation by seabirds.



Figure 9a – Digital Rendition of Top-Net

Net Height

4.5m from pen walkway to top of side wall.

Net Support

14 x Fibreglass poles per pen (e-glass fibres in polyester resin) 5m length, 42mm Diameter

Net Specifications

Roof 300mm mesh (see below) x 1.2mm dia. chineema twine, light grey

Upper side walls (handrail to roof) 100mm mesh x 1.2mm dia. chineema twine, light grey

Lower side walls 25mm mesh x 1.2mm dia. chinema twine, light grey.

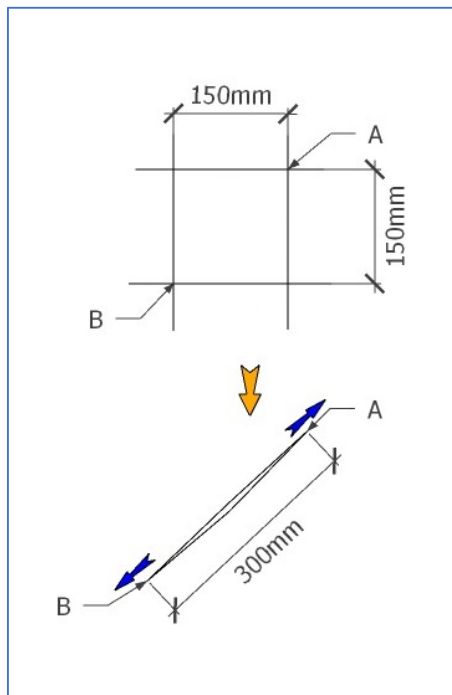


Figure 9b –Top Net Roof Mesh Dimensions



Figure 9c – Top Net roof mesh