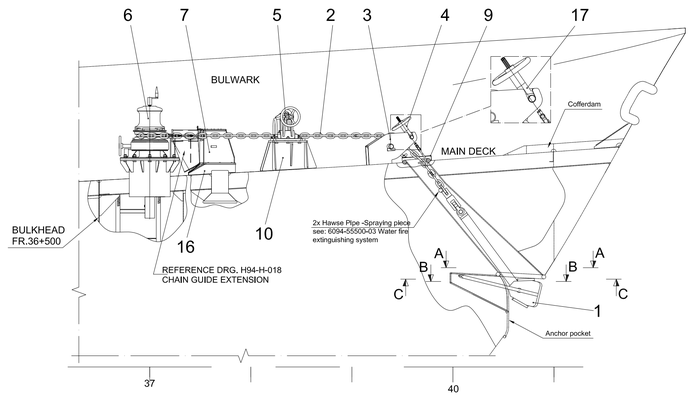
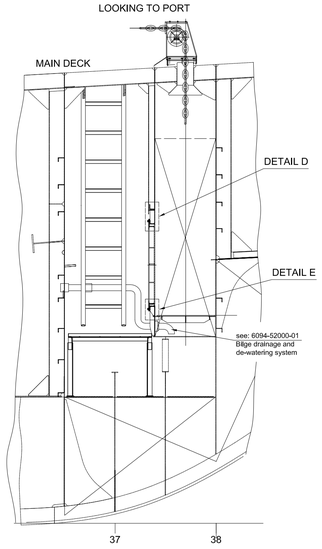
PART EXTERNAL PROFILE

LOOKING TO PORT



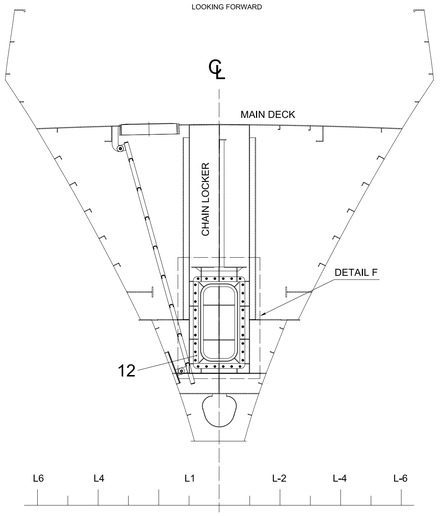
PART ELEVATION IN C.L.

LOOKING TO PORT



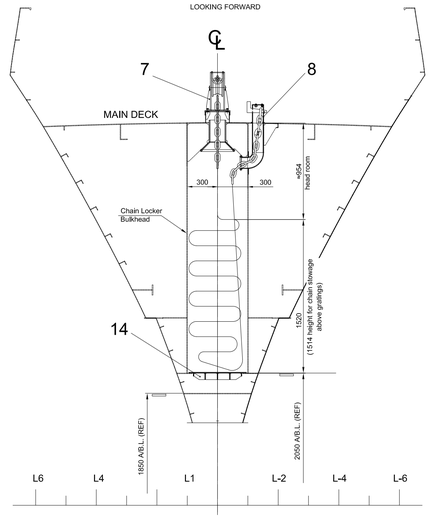
SECTION AT FRAME 37+350

LOOKING FORWARD



SECTION AT FRAME 37+695

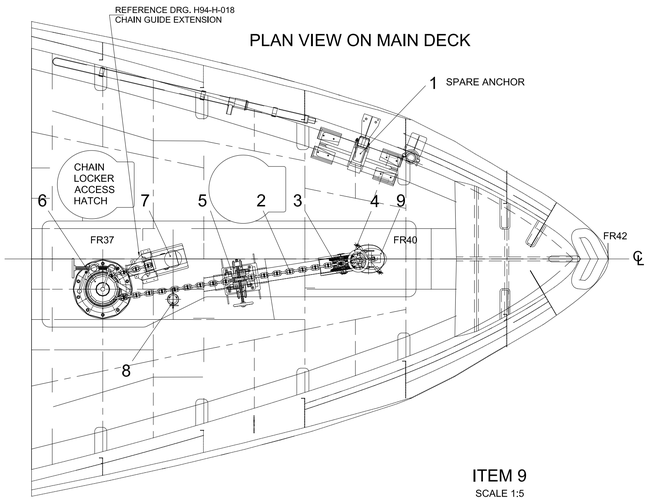
LOOKING FORWARD



Item	Name, dimensions	Dwg. no, standard or codification	Pcs.	Material or characteristics	Remarks	Kg per unit
1	ANCHOR TYPE HHP 200 KG		2	STEEL	DAMEN, 1pcs. spare	200
2	ANCHOR CHAIN 16 MM		1		WANG TAK	1126
3	CHAIN ROLLER 16 MM		1		ARITEX	71
4	STOPPER		1		ARITEX	-
5	CHAIN COMPRESSOR		1		MUIR	32
6	HYDRAULIC COMBINED ANCHOR/MOORING CAPSTAN		1		HAWBOLDT	245
7	GUIDE CHAIN ROLLER		1		ARITEX	38
8	QUICK RELEASE DEVICE		1			35.5
9	HAWSER PIPE COVER PLATE		1			3.25
10	CHAIN COMPRESSOR SEAT		1			-
11	COMBINED CAPSTAN SEAT		1			-
12	CHAIN LOCKER HATCH		1			41.2
13	SWIVEL ASSEMBLY		2	STEEL	DAMEN, 1pcs. spare	3
14	CHAIN LOCKER GRATING		1			19.4
15	HIGH DENSITY POLYETHYLENE		2			21
16	GUIDE CHAIN ROLLER SEAT		1			-
17	BUSH		1	BRONZE	Yard supply	0.35
18	FASTENERS		-	STAINLESS STEEL		0.65

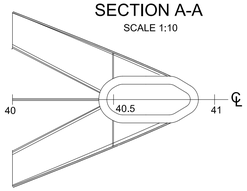
TOTAL WEIGHT: 2060.5 kg

PLAN VIEW ON MAIN DECK



SECTION A-A

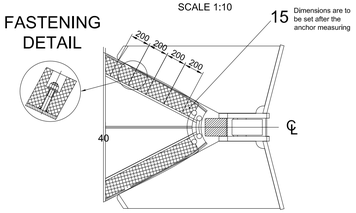
SCALE 1:10



SECTION B-B

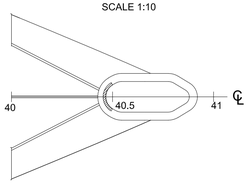
SCALE 1:10

FASTENING DETAIL



SECTION C-C

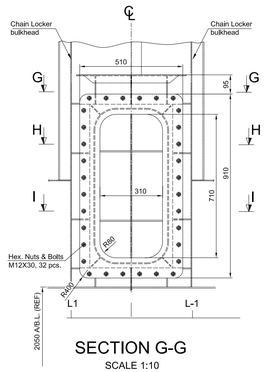
SCALE 1:10



DETAIL F

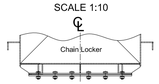
LOOKING FORWARD

SCALE 1:10



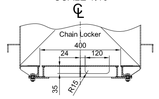
SECTION G-G

SCALE 1:10



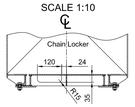
SECTION H-H

SCALE 1:10



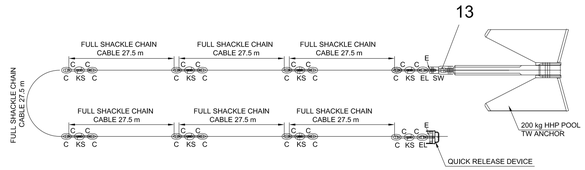
SECTION I-I

SCALE 1:10



ANCHOR CHAIN CABLE LAYOUT

CHAIN LINE 16mm GRADE U2 TOTAL LENGTH 192.5 m



LEGEND: C - Common link;
EL - Enlarged link;
E - End link;
KS - Joining shackle type KENTER;
SW - Swivel shackle.

TECHNICAL CHARACTERISTICS

1. ANCHOR CHAIN:
   - Chain diameter . . . . . Ø 16 mm
   - Chain quality . . . . . Grad U2 LRS
   - Chain length . . . . . 192.5 m (7 shots 27.5 m each)
2. ANCHOR:
   - Type . . . . . High Holding Power Pool TW
   - Weight . . . . . minimum 197 Kg.
   - Execution . . . . . unbalanced
3. HYDRAULIC COMBINED ANCHOR - MOORING CAPSTAN:
   Anchoring function:
   - Chain diameter . . . . . Ø 16 mm
   - Continuous duty pull: - P=10.67 kN... over a period of 26.4 minutes
     - P=16 kN... over a period of at least 2 minutes
   - The capstan shall be capable of raising the anchor from depth of 82.5 m to a depth of 27.5 m at a mean speed of 9 m/min.

   Mooring function:
   - The capstan shall have sufficient power to exert a pull of rope at warping end min. nominal pull 10 kN... and a nominal speed 10 m/min.
   - Loose rope speed 20 m/min.
4. ACTUATION: . . . . . hydraulically operated

NOTES:

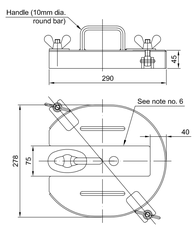
1. Two (2) of the seven (7) shots of each fitted chain shall be galvanized - one (1) fitted at the bitter end, and one (1) fitted at the anchor's end.
2. The cover (pos.9) should be removed during the anchor manoeuvring.
3. The spare anchor will be provided with one (1) Jaw swivel shackle, one (1) end link, one (1) enlarged link, one (1) common link and one (1) joining shackle Kenter type.
4. According with LLOYD'S RULES AND REGULATIONS FOR THE CLASSIFICATION OF SPECIAL SERVICE CRAFT, July 2009 Part 3 Chapter 5 Section 6.6 the bitter end connection will be designed for shear failure under a runaway chain load not less than 10 per cent of the breaking strength of the anchor chain.
5. The cover cutting -out was made taking into consideration the chain link dimensions and the chain input angle in the hawse pipe. Final dimensions of the chain cutout should be determined after installation of the anchor chain.
6. The under deck structure in way of anchor and mooring capstan is according to PROFILE DECKS PLANS dwg.no: 6094-10000-02.
7. Anchor,chain cable and accessories are to be manufactured by approved procedures at works approved by Lloyd's Register. Testing is to be in accordance with Lloyd's Rules for Manufacture, Testing and Certification of Materials under the supervision of Lloyd's register's Surveyors.
8. Closing device in way of chain cable end is to be of watertight construction.

REFERENCE DRAWINGS:

1- AF6094-89940-01 GENERAL ARRANGEMENT PLAN
2- AF6094-58200-01 TOWING AND MOORING ARRANGEMENT
3- AF6094-10000-08 FORE END CONSTRUCTION PLAN
4- AF6094-55500-03 WATER FIRE EXTINGUISHING SYSTEM
5- AF6094-52000-01 BILGE DRAINAGE AND DE-WATERING SYSTEM
6- AF6094-10000-02 PROFILE DECKS PLANS

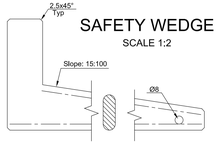
ITEM 9

SCALE 1:5



SAFETY WEDGE

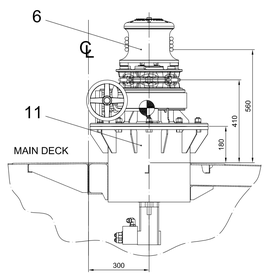
SCALE 1:2



PART SECTION AT FRAME 37

LOOKING FORWARD

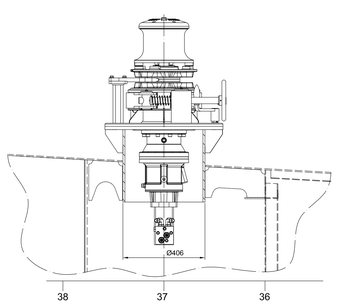
SCALE 1:10



PART ELEVATION 300 OFF C.L. ON STARBOARD

LOOKING TO STARBOARD

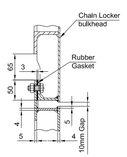
SCALE 1:10



DETAIL D

LOOKING TO PORT

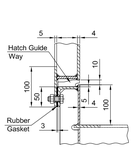
SCALE 1:10



DETAIL E

LOOKING TO PORT

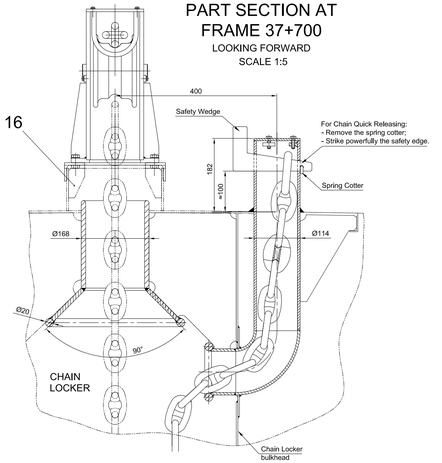
SCALE 1:10



PART SECTION AT FRAME 37+700

LOOKING FORWARD

SCALE 1:5



CCGS PRIVATE ROBERTSON V.C.

Rev	Date	Description	Perform	Check	Appr.
AF	AUG/15/12	AS-FITTED	D.A.	D.A.	B.Faulder

Client: CANADIAN COAST GUARD

international contract engineering

IRVING SHIPBUILDING INC.

P.O. Box 9110, 3099 Barrington Street, Halifax NS, Canada B3K 5M7,
Tel: 902.423.9271, Fax: 902.429.4510

Contract No. F7045-060001/002/INQ

Title: ANCHOR SYSTEM ARRANGEMENT PLAN

MID-SHORE PATROL VESSEL

Scale:	Size:	Project No:
1:20	A0	6094
Drawn by: D.Monu	Checked by: E.Zalnescu	Dwg. date: 17/06/2011
Draw.no: AF6094-58100-01		Rev. AF
Proj.	© IRVING SHIPBUILDING INC.	Sheet: 1 of 1

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