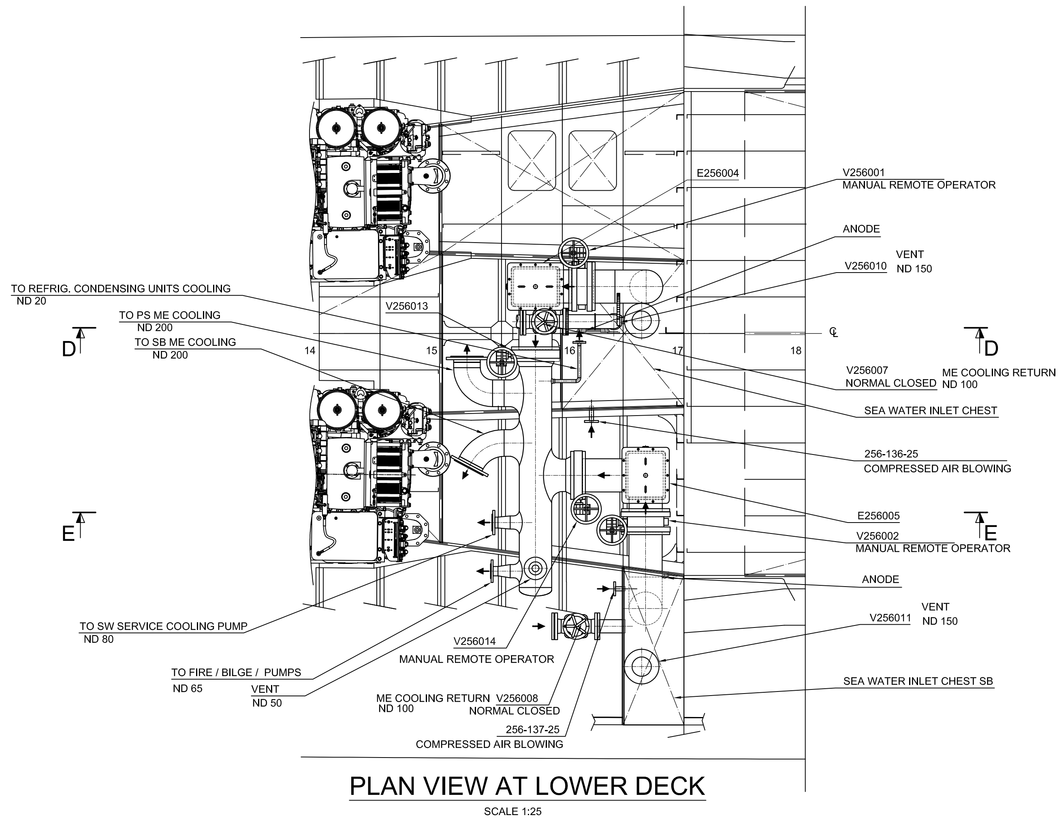
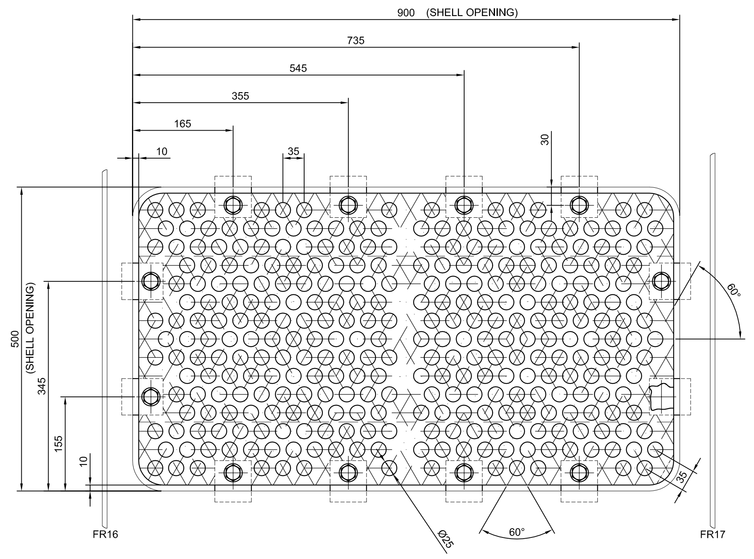


PLAN VIEW AT LOWER DECK

SCALE 1:25

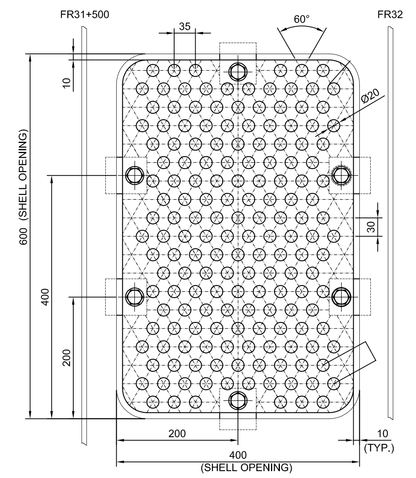


CENTRAL SEA CHEST GRATING MMR
PLAN VIEW BELOW MAIN DECK

PRINCIPLE DRAWING

SCALE 1:5

1. 2(TWO) PCS. FOR MMR BOTTOM SEA CHEST SHALL BE PROVIDED.
2. SCREWS AND NUTS WILL BE MADE OF STAINLESS STEEL.
3. CUTTINGS FROM THE PARENT SHELL PLATES SHALL BE USED FOR GRATING PLATES.
4. HOLES SHARP EDGES WILL BE ROUNDED.



FWD SEA CHEST GRATING
PLAN VIEW BELOW MAIN DECK

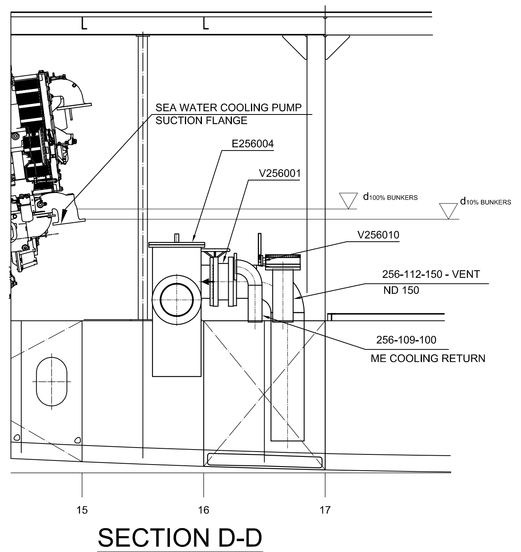
PRINCIPLE DRAWING

SCALE 1:5

1. 1(ONE) PC. FOR BOWTHRUSTER COMPARTMENT SEA CHEST SHALL BE PROVIDED.
2. SCREWS AND NUTS WILL BE MADE OF STAINLESS STEEL.
3. CUTTINGS FROM THE PARENT SHELL PLATES SHALL BE USED FOR GRATING PLATES.
4. HOLES SHARP EDGES WILL BE ROUNDED.

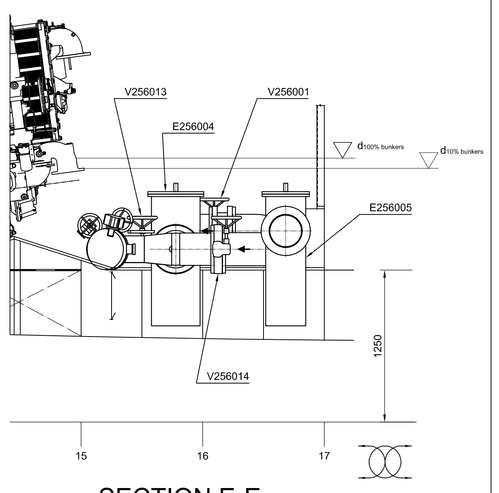
REFERENCE DRAWINGS

NO.	DRAWING TITLE	DRAWING NUMBER
1	GENERAL ARRANGEMENT PLAN	6094-89940-01
2	TANK ARRANGEMENT & CAPACITY PLAN	6094-89940-02
3	ENGINE ROOM ARRANGEMENT	6094-20000-01
4	COOLING WATER SYSTEM	6094-25600-01
5	COMPRESSED AIR SYSTEM	6094-55100-01
6	BOWTHRUSTER ROOM ARRANGEMENT PLAN	6094-56800-01
7	SCHEME OF CATHODIC PROTECTION DIAGRAM	6094-63300-01
8	AIR PIPES AND SOUNDING DIAGRAM	6094-50000-02
9	MIDSHIP AND OTHER SECTIONS PLANS	6094-10000-01
10	WATERTIGHT BULKHEADS PLANS	6094-10000-04
11	PROFILE AND DECKS PLANS	6094-10000-02
12	ALUMINIUM SACRIFICIAL ANODES	6094-82120-01



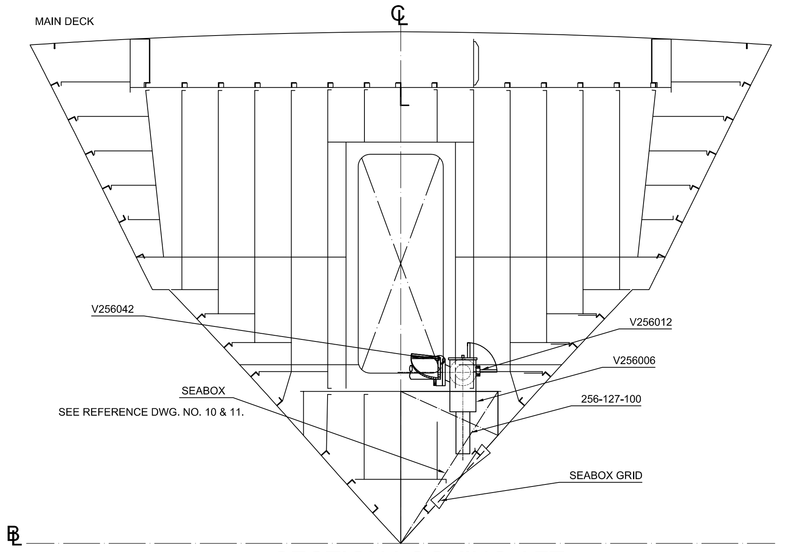
SECTION D-D

SCALE 1:25



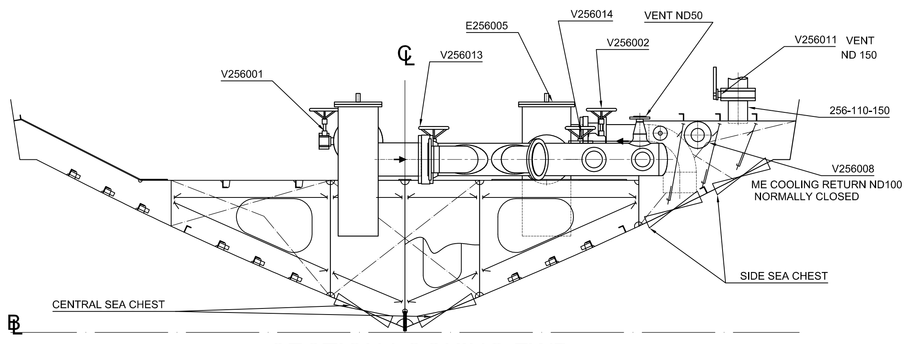
SECTION E-E

SCALE 1:25



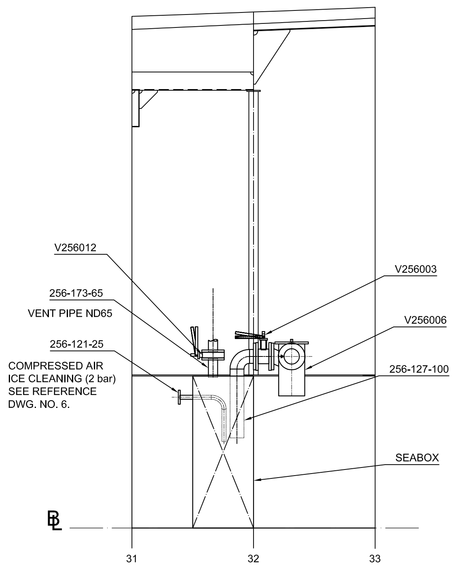
SECTION LOOKING AFT
FRAME 31 - 32

SCALE 1:25



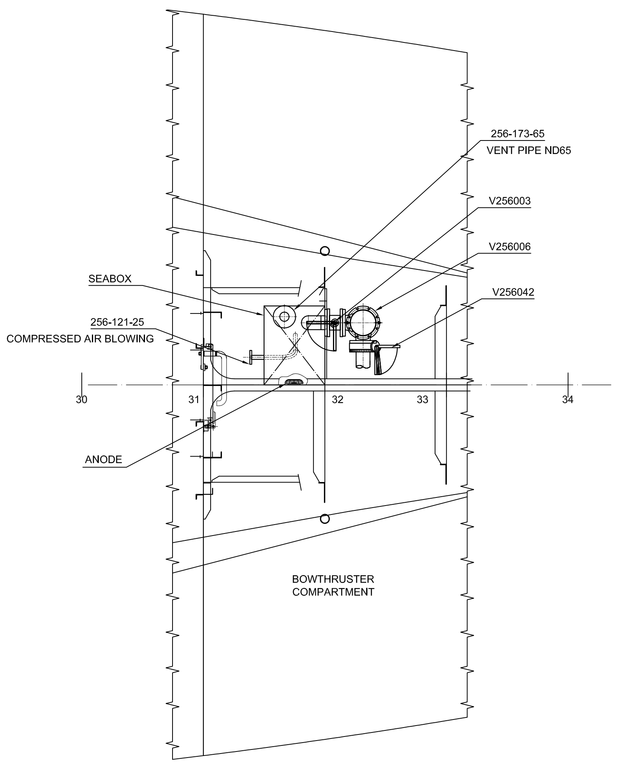
SECTION LOOKING FWD
FR. 15.5 - FR16.5

SCALE 1:25



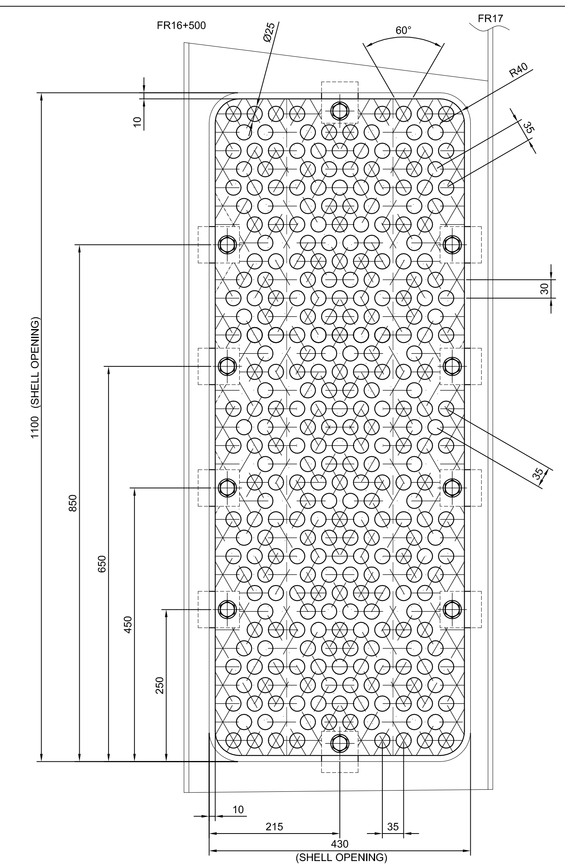
ELEVATION TO PORT
OFF CL

SCALE 1:25



PLAN VIEW AT
LOWER DECK

SCALE 1:25

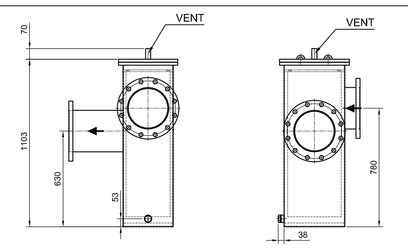


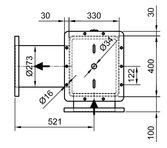
SIDE SEA CHEST GRATING
PLAN VIEW BELOW MAIN DECK

PRINCIPLE DRAWING

SCALE 1:5

1. 1(ONE) PC. FOR MMR SIDE SEA CHEST SHALL BE PROVIDED.
2. SCREWS AND NUTS WILL BE MADE OF STAINLESS STEEL.
3. CUTTINGS FROM THE PARENT SHELL PLATES SHALL BE USED FOR GRATING PLATES.
4. HOLES SHARP EDGES WILL BE ROUNDED.





SEA CHEST FILTER
ND250

SCALE 1:20

- WILL BE MADE OF STEEL.

NOTES:

1. SACRIFICIAL ANODES TO BE PLACED IN EACH SEABOX. SEE REFERENCE DWG. NO. 8.
2. VALVES SHALL HAVE BILINGUAL BRASS LABEL PLATES SECURELY ATTACHED TO THEM IN ACCORDANCE WITH ASTM F992-86(2006) STANDARD SPECIFICATION FOR VALVE LABEL PLATES.
3. ACCORDING TO "TRANSPORT CANADA MARINE SAFETY"- BULLETIN NO.: 08/1989 - "SHIPS OPERATING IN WINTER CONDITIONS":

Sb > 5*ΣSi

- MAIN LINE MMR- CENTRAL SEA CHEST

Where:
Si- TOTAL AREA OF PUMP SUCTIONS=2xMP+1x SW SERVICE PUMP+1xBALLAST+1xREFRIG. CONDENSING UNIT =2xND150+1xND65+1xND65+1xND20.
Si = 45776 mm²
Sb=GRATING OPEN AREA TO THE SEA
Sb=308269 mm² AT CENTRAL SEA CHEST, RESULTS THAT Sb >6,7*Si

- MAIN LINE MMR - SIDE SEA CHEST

WHERE:
Si- TOTAL AREA OF PUMP SUCTIONS=2xMP+1x SW SERVICE PUMP+1xBALLAST+1xREFRIG. CONDENSING UNIT =2xND150+1xND65+1xND65+1xND20.
Si = 45776 mm2
Sb=GRATING OPEN AREA TO THE SEA
Sb=152661.8 mm² AT LATERAL SEA CHEST, RESULTS THAT Sb > 3,3*Si

- SEA CHEST BOWTHRUSTER ROOM

WHERE:
Si- TOTAL AREA OF EMERGENCY FIRE PUMP + A.C.UNIT COOLING EL. PUMP, Si= 8911 mm²
Sb=GRATING OPEN AREA TO THE SEA
Sb=52150 mm2, RESULTS THAT Sb > 5.8*Si

4. FOR VALVES V256XXX, SEE DRAWING 6094-25600-01 - COOLING WATER SYSTEM
5. FOR VALVES V551XXX, SEE DRAWING 6094-55100-01 - COMPRESSED AIR SYSTEM
6. FOR PIPES 551-XXX-XX SEE DRAWING 6094-55100-01 - COMPRESSED AIR SYSTEM
7. FOR PIPES 256-XXX-XX SEE DRAWING 6094-55100-01 - COOLING WATER SYSTEM
8. SEE STRAINER FREE AREA >=4,5 x FILTER CONNECTION AREA >= 0.221 m2

Rev	Date	Description	Perform	Check	Appr.
0	15/07/2011	ISSUED FOR CONSTRUCTION	V.Lefter	S.Hanganu	M.Mocanu

Client: CANADIAN COAST GUARD

ICE international contract engineering

IRVING IRVING SHIPBUILDING INC.

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

Title: SEA CHESTS ARRANGEMENT

MID-SHORE PATROL VESSEL

Scale: 1:50	Size: A0	Project No: 6094	
Drawn by: V.Lefter	Checked by: S.Hanganu	Dwg. date: 15/07/2011	
Draw.no: 6094-25600-02		Rev. 0	
Contract No. F7045-06001/002/INQ	Proj.	Sheet: 1 of 1	

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File name: 6094-25600-02_0_Sea Chests Arrangement.dwg