



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving - PWGSC / Réception des soumissions - TPSGC**  
**11 Laurier St. / 11, rue Laurier**  
**Place du Portage , Phase III**  
**Core 0B2 / Noyau 0B2**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> Motor Life Boat Shaft Strut Casting	
<b>Solicitation No. - N° de l'invitation</b> F2599-170157/A	<b>Date</b> 2017-10-25
<b>Client Reference No. - N° de référence du client</b> F2599-170157	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$MD-039-26495	
<b>File No. - N° de dossier</b> 039md.F2599-170157	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-12-05</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Blackburn, Jessica	<b>Buyer Id - Id de l'acheteur</b> 039md
<b>Telephone No. - N° de téléphone</b> (819) - ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Ship Refits and Conversions / Radoubss et modifications de navires and / et  
11 Laurier St. / 11, rue Laurier  
6C2, Place du Portage  
Gatineau, Québec K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with this bid solicitation.

### **1.2 Statement of Requirement**

The Canadian Coast Guard has a requirement for the casting of stainless steel shaft struts for 47' Motor Life Boats using mold patterns. The two (2) patterns (one (1) Port and one (1) Starboard) will be supplied and shipped to the successful bidder by CCG. Quantities required are 8 port and 9 starboard struts.

### **1.3 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.4 Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Canadian Free Trade Agreement (CFTA).

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003 \(2017-04-27\)](#) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must

be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## 2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (2 hard copies)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with Annex "B" the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

### **3.2 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

## **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

Bidders must provide the required certifications.

#### **4.1.2 Financial Evaluation**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivery Duty Paid (DDP) destination Incoterms 2000, Canadian customs duties and excise taxes included.

### **4.2 Basis of Selection**

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price on an aggregate basis will be recommended for award of a contract.

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

## 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

### 5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

## 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

## PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 6.1 Security Requirements

There is no security requirement applicable to the Contract.

## 6.2 Statement of Requirement

The Canadian Coast Guard has a requirement for the casting of stainless steel shaft struts for its Cape Class motor life boats made by using two mold patterns. The two patterns (one for port side and one for starboard side) will be supplied and shipped by CCG to the successful bidder. Quantities required are 8 port side struts and 9 starboard side struts.

## 6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

### 6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

This revision is to revise (2016-04-04), General Conditions - Goods (Medium Complexity), and delete Sub-Article **2010A 09** (2014-09-25) Warranty, in its entirety and insert the following:

Sub-Clause SACC Manual **2010A 09** (2016-09-15) Warranty

1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any provisions of the Contract or any condition, warranty or provision imposed by law, the Contractor, if requested by Canada to do so, must replace, repair or correct, at its own option and expense any work that becomes defective or fails to conform to the requirements of the Contract, where applicable. The warranty period will be 12 months after delivery and acceptance of the Work and will remain in effect thereafter, from the date at which each Strut becomes operational. The operational date is anticipated to commence within eight (8) months of the date of delivery, or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer. The warranty applies to any part of the Work replaced, repaired or corrected pursuant to subsection 1, for the greater of the warranty period remaining, including the extension.
2. Canada must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good, and the Contractor must pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location and will be reimbursed its reasonable travel and living expenses.
3. The warranty period is automatically extended by the duration of any period or periods where the Work is unavailable for use or cannot be used because of a defect or non-conformance during the original warranty period.

## 6.4 Term of Contract

### 6.4.1 Period of the Contract

The term of the contract is from the date of contract award until March 31, 2019 inclusive.

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#### **6.4.2 Delivery Date**

All the deliverables must be received on or before February 28, 2018.

#### **6.4.3 Delivery Points**

Delivery of the requirement will be made to:

Canadian Coast Guard Stores. O5C  
Warehouse door #1  
13 Akerley BLVD  
Dartmouth. NS.  
B3B 1J6

Marine Engineering  
Institute of Ocean Science  
9860 West Saanich Road  
Sidney, BC, V8L 4B2

Atelier navale, porte C-117,  
Institut Maurice Lamontagne,  
850, route de la Mer, C.P. 1000,  
Mont-Joli, Québec  
G5H 3Z4

Canadian Coast Guard  
867 Lakeshore Road  
Burlington, Ontario L7S 1A1

### **6.5 Authorities**

#### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Jessica Blackburn  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch, Marine Systems Directorate  
11, Laurier St, Place du Portage, Phase III, 6C2, Gatineau, QC, K1A 0S5  
Telephone: 873-469-3297  
E-mail address: [jessica.blackburn@tpsgc-pwgsc.gc.ca](mailto:jessica.blackburn@tpsgc-pwgsc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### **6.5.2 Project Authority**

The Project Authority for the Contract is:

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Name:  
Title:  
Organization:  
Address

Telephone:  
E-mail address:

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.5.3 Contractor's Representative

**(TBD at contract award)**

Name: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

### 6.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

### 6.7 Payment

#### 6.7.1 Basis of Payment

##### 6.6.1.1 Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in the contract for a cost of \$ \_\_\_\_\_. Customs duties are included, and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

#### 6.7.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

#### 6.7.3 Single Payment

SACC Manual clause [H1000C](#) (2008-05-12) Multiple Payments

## 6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

## 6.8 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the following address for certification and payment:  
TBD
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
  - c. one (1) copy must be forwarded to the technical authority identified under the section "Authorities" in the Contract.

## 6.9 Certifications and Additional Information

### 6.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

### 6.10 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_ (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

### 6.11 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 2010A (2016-04-04)
- (c) Annex X, Statement of Requirement;
- (d) Annex B, Basis of Payment

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- (e) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award:* “, as clarified on \_\_\_\_\_” **or** “, as amended on \_\_\_\_\_” *and insert date(s) of clarification(s) or amendment(s)*)

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## **ANNEX "A"**

### **STATEMENT OF REQUIREMENT**

# **47' Motor Life Boat Shaft Strut Casting**

Specification No: Spec #848.17

Date: 2017-07-25

Revision No: 0

Prepared by Marine Engineering  
867 Lakeshore Road  
Burlington, Ontario  
L7S1A1

Spec Item:	Specification	TCMS Field #:
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<b>Vessel Particulars</b>		

## 2.0 VESSEL PARTICULARS

Name: 47' Motor Life Boats  
Type: Search and Rescue  
Ice Class: None  
Year Built: Various

### Principal Dimensions:

Length: 14.63m (47ft, 11-7/8 in)  
Breadth, molded: 4.27m (14ft)  
Loaded Draft: 1.43m (4ft, 8in)  
Tonnage, displ: 25.36 tonnes net

Propulsion: Twin Caterpillar 3196 or C12 diesel engines.

Spec Item:	Specification	TCMS Field #:
<b>SHAFT STRUTS</b>		

### 3.0 SHAFT STRUTS

#### 3.1 Identification

3.1.1 CCG requires the casting of stainless steel shaft struts for the 47' Motor Life Boats. The quantities required are 8 Port and 9 Starboard. Mold patterns will be supplied by CCG.

#### 3.2 References

##### 3.2.1 Equipment Data – Not Used

##### 3.2.2 Drawings

Drawing Number	Description	Electronic Number
161-010	Shaft Struts And Barrels	

##### 3.2.3 Regulations

3.2.3.1 The Contractor must reference the following acts and regulations with respect to the work in this specification item.

	Acts	
CSA 2001	Canada Shipping Act	

##### 3.2.4 Standards

3.2.4.1 ASTM A743/A743M-13, Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application.

3.2.4.2 ASME B46.1-2009 Surface Roughness, Waviness, and Lay

##### 3.2.5 Quality Assurance Standards

3.2.5.1 The Contractor must be a Classification Society approved foundry that is recognized by Transport Canada as one of the Recognized Organizations listed below:

- American Bureau of Shipping
- Bureau Veritas
- Class NK
- DNV GL
- Korean Register
- Lloyd's Register
- RINA Services, SpA

Spec Item:	Specification	TCMS Field #:
<b>SHAFT STRUTS</b>		

### **3.3 Technical**

- 3.3.1 Material: 316L Stainless Steel Casting Per ASTM A743/A743M-13
- 3.3.2 Cast surface roughness to be 350 micro inches (8.89 micro meters) Ra max. per ASME B46.1-2009.
- 3.3.3 Top surface of palm must be machined flat to within .03 inch (0.76mm) the rest of the strut must remain raw including the barrel bore as indicated in drawing 161-010 sheet 1 section 6-E.
- 3.3.4 The Contractor must not drill any of the bolt holes indicated in drawing 161-010.
- 3.3.5 Overall drawing 161-010 dimension tolerances to be +/- .005 inch (0.127mm) or +/- .010 (0.254mm) whichever is greater.

### **3.4 Proof of Performance**

#### **3.4.1 Inspections**

- 3.4.1.1 The Contractor must provide a work report with delivery of the product showing details of inspections, QC process completed in along with the in-house and classification society approvals.

#### **3.4.2 Testing/Trials**

- 3.4.2.1 The Contractor must perform and provide details of 100% Ultrasonic Inspection and 100% Die Penetrant Inspection. All defects noted by the inspector must be repaired before delivery of the product.

#### **3.4.3 Certification**

- 3.4.3.1 With the bid submission the Contractor must provide proof of foundry certification as required under section 3.2.5.
- 3.4.3.2 Contractor must provide class approval documentation for each strut manufactured with each strut stamped with appropriate identification and class approval information. Contractor must use one of the following Transport Canada approved Classification Societies for all class approvals:
  - American Bureau of Shipping
  - Bureau Veritas
  - Class NK
  - DNV GL
  - Korean Register
  - Lloyd's Register
  - RINA Services, SpA
- 3.4.3.3 The Contractor shall provide the certification documentation of sections 3.4.3.1 and 3.4.3.2 in the following format:

Spec Item:	Specification	TCMS Field #:
<b>SHAFT STRUTS</b>		

- 2 Hard copy originals of all Classification approvals for each strut;
- 1 electronic copy in PDF format on a USB key that is not software protected.

### **3.5 Deliverables**

#### **3.5.1 Shipping**

- 3.5.1.1 Pattern shipping costs to the Contractor's facility will be paid for by CCG.
- 3.5.1.2 The Contractor must ship the following quantities of struts and patterns to the destinations indicated below.
- 3.5.1.3 The shipment to Sidney, BC must include the return of the mold pattern.
- 3.5.1.4 The Contractor is responsible for all delivery/transportation charges, administration costs and insurance.

2 Port and 2 STBD Struts to:

Attn Danny Thomson  
Canadian Coast Guard Stores. O5C  
Warehouse door #1  
13 Akerley BLVD  
Dartmouth. NS.  
B3B 1J6

3 Port and 3 STBD Struts to:

Attn Bill Davison  
Marine Engineering  
Institute of Ocean Science  
9860 West Saanich Road  
Sidney, BC, V8L 4B2

1 Port and 1 STBD Strut to:

Attn Pierre Poirier  
Atelier navale, porte C-117,  
Institut Maurice Lamontagne,  
850, route de la Mer, C.P. 1000,  
Mont-Joli, Québec  
G5H 3Z4

Spec Item:	Specification	TCMS Field #:
<b>SHAFT STRUTS</b>		

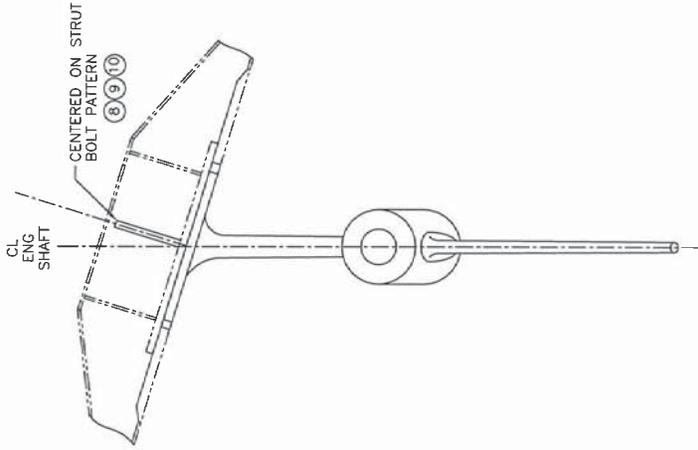
2 Port and 3 STBD Struts to:

Attn Randy Borbely  
 Canadian Coast Guard  
 867 Lakeshore Road  
 Burlington, Ontario L7S 1A1

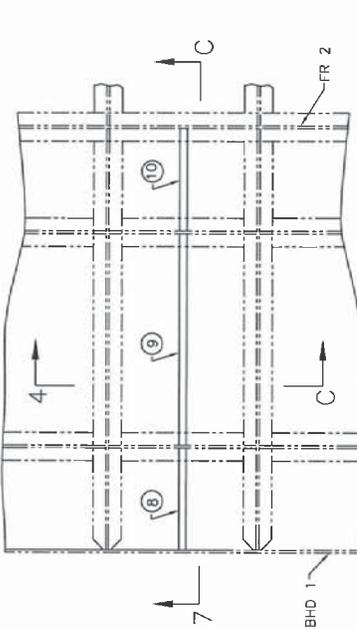


PARTS LIST

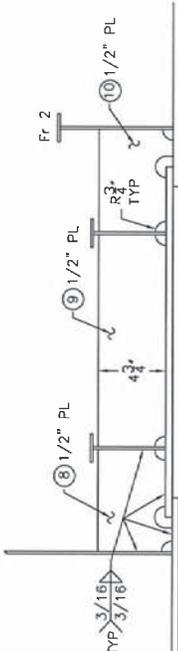
ITEM NO.	QTY	PART NUMBER	DESCRIPTION	MATERIAL/SPEC	REMARKS
1	1		STRUT CASTING, STARBOARD	J16L CRES	OLYMPIC FOUNDRY, SEATTLE, WA
2	1		STRUT CASTING, PORT	J16L CRES	
3	36		1/2"-13UNC-2A SLOTTED FLAT COUNTERSUNK HEAD MACHINE SCREW, 2" LONG	J16L CRES	
4	36		1/2"-13UNC-2B LOCKNUT, PKG	304 CRES	
5	36		WASHER, 1/2" NOM BOLT	304 CRES	
6	A/R		PHILLYBOND BLUE 6A		
7	8		3/8"-16UNC-2A BOLT 2" LONG	ZINC CHROMATE STEEL, GR 2	
8	2		1/2" PLATE	5456-H116 AL	ASTM-B209
9	2		1/2" PLATE	5456-H116 AL	ASTM-B209
10	2		1/2" PLATE	5456-H116 AL	ASTM-B209
11	8		3/8"-16UNC SELF LOCKING SET SCREW, 1/2" LONG	CRES 18-8	



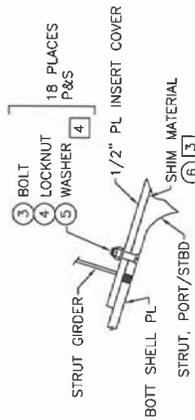
SECTION 4-C  
TYPICAL SECTION THRU  
STRUT FOUNDATION, LOOKING AFT



PLAN VIEW  
ORTHOGONAL TO HULL OF CRAFT  
STBD SIDE SHOWN / PORT OPP HAND



SECTION 7-C



DETAIL 7-A  
TYP SECTION THRU BOLT

- INSTALLATION NOTES:
- EVERY ASPECT OF WELDING HAS NON-DESTRUCTIVE INSPECTION OF WELDS SHALL BE IN ACCORDANCE WITH STANDARD ISO/9712 WELDING OF ALUMINUM AND ALUMINUM ALLOYS, 2ND EDITION, FEBRUARY 2003. THE APPLICABLE SECTION OF ABS RULES FOR BUILDING & CLASSING ALUMINUM VESSELS.
  - WET ASSEMBLY ALL MECHANICALLY FASTENED JOINTS AND FAYING SURFACES USING 3M101 MARINE SEALANT.
  - SHIM TO ALIGN STRUT CASTING WITH SHAPING OF HULL. SHIMMING, REPAIR AND SHIM 0.00 TO 0.100 IN. PER INCH. DO NOT APPLY RELEASE AGENT TO STRUT PALM OR SHELL PLATING. TRIM EXCESS COMPOUND TO FAIR GAP BETWEEN OUTER EDGE OF STRUT PALM AND SHELL PLATING.
  - TORQUE M16 BOLTS 25 TO 30 FT-LB AT INSTALLATION.
  - TEMPLATE HOLE LOCATIONS IN SHELL FROM STRUT CASTING. DRILL THROUGH 0.315 ± .001 DIA HOLE.
  - USE SET SCREWS, ITEM NO. 11, TO PLUG HOLES IN THE STRUTS AFTER THE JACKING SCREWS, ITEM NO. 7, ARE REMOVED.

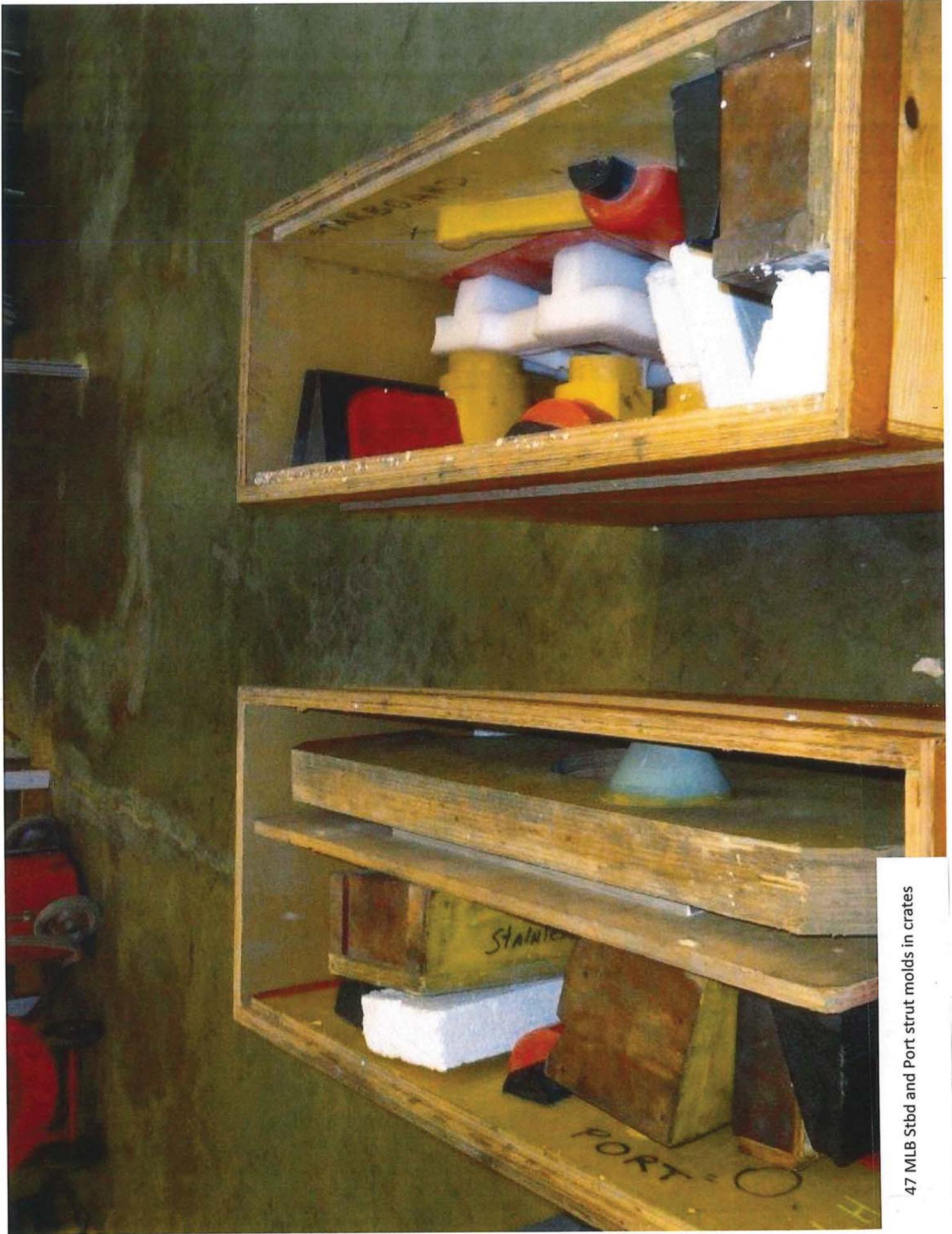
Rev No.	AS BUILT ISSUE	Revision	10-26-20	2
Contractor	CANTON MARINE			
Designer	CANTON MARINE			
Checker	CANTON MARINE			
Approver	CANTON MARINE			
Scale	AS SHOWN			
Sheet No.	479-NB-161-00			
Project No.	479-NB-161-00			
Sheet Title	SHAFT STRUTS AND BARRELS			
Author	CANTON MARINE			
Checker	CANTON MARINE			
Approver	CANTON MARINE			
Date	10-26-20			
Scale	AS SHOWN			
Sheet No.	479-NB-161-00			
Project No.	479-NB-161-00			
Sheet Title	SHAFT STRUTS AND BARRELS			



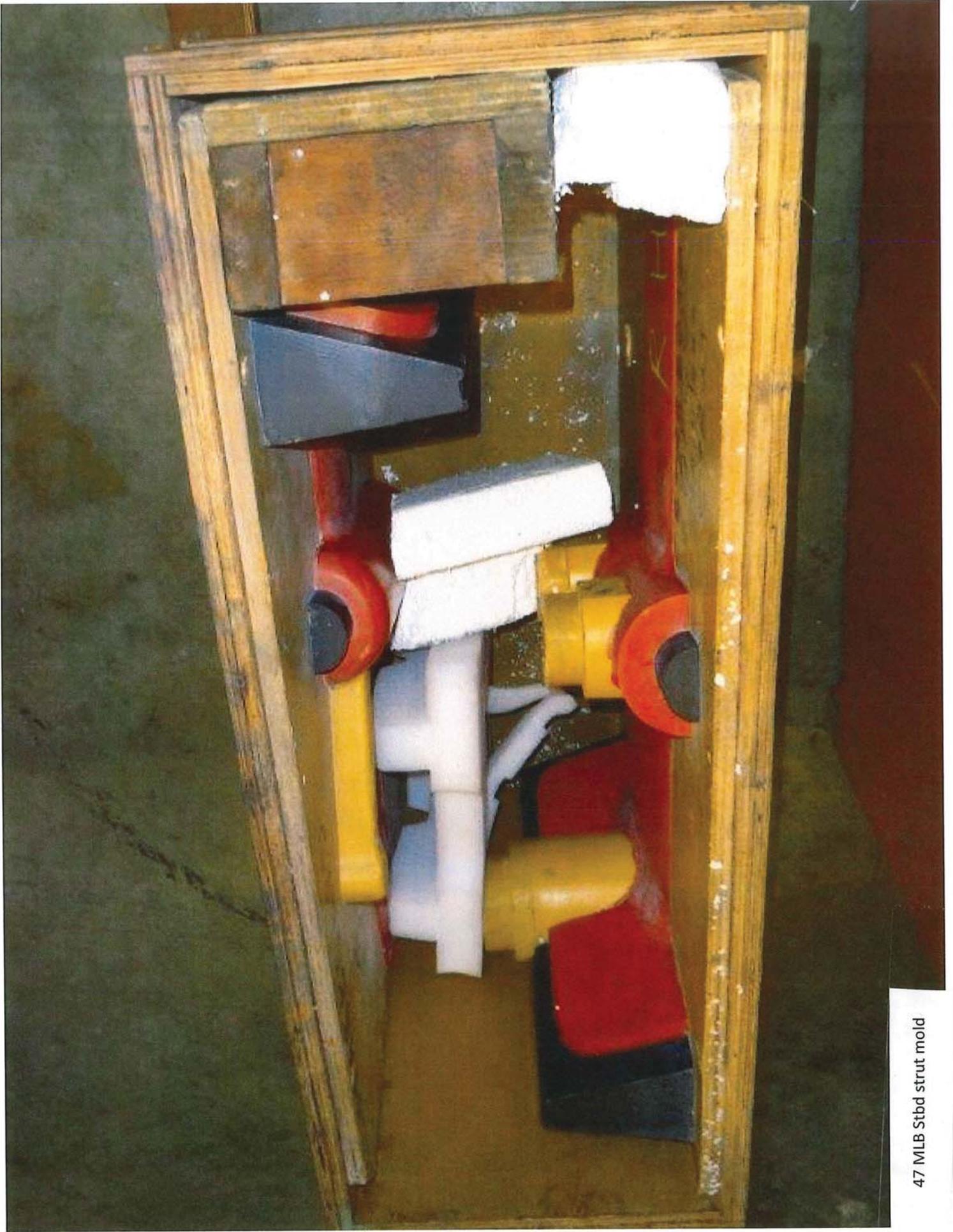
47 MLB Port and Stbd strut molds in crates



47 MLB Port strut molds



47 MLB Stbd and Port strut molds in crates



47 MLB Stbd strut mold



47 MLB strut molds

**ANNEX "B"**  
**Pricing Sheet**

<b>Annex "B" - Pricing Sheet</b>				
<b>RFP No:</b>	<b>F2599-170157/A</b>			
<b>(A)</b>	<b>(B)</b>	<b>(C)</b>	<b>(D)</b>	<b>(E)</b>
<b>item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit price</b>	<b>Sub-Total (tax excluded)</b>
1	Port Strut	8	\$ _____	C x D = \$ _____
2	Starboard Strut	9	\$ _____	C x D = \$ _____
3	Delivery of 2 port struts and 2 starboard struts to CCG Stores Dartmouth, Nova Scotia			\$ _____
4	Delivery of 3 port struts and 3 starboard struts to Marine Engineering Institute of Ocean Science Sidney, BC			\$ _____
5	Delivery of 1 port struts and 1 starboard struts to Atelier Navale			\$ _____
6	Delivery of 2 port struts and 3 starboard struts to CCG Base Stores Burlington, Ontario			\$ _____
7	Return shipping of molds to CCG Sidney, BC			\$ _____
<b>Total Bid Price (tax excluded): sum of sub totals for items 1+2+3+4+5+6+7</b>				\$ _____