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Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NL

A1C 5T2

Bid Fax: (709) 772-4603

**Request For a Standing Offer  
Demande d'offre à commandes**

Regional Individual Standing Offer (RISO)

Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and  
Government Services Canada, hereby requests a Standing Offer  
on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et  
Services Gouvernementaux Canada, autorise par la présente,  
une offre à commandes au nom des utilisateurs identifiés  
énumérés ci-après.

**Comments - Commentaires**

**Vendor/Firm Name and Address**

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**

PWGSC / TPGSC - Nfld. Region

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NL

A1C 5T2

<b>Title - Sujet</b> RISO Campelen 1800 Survey Trawl	
<b>Solicitation No. - N° de l'invitation</b> F6070-180011/A	<b>Date</b> 2018-08-23
<b>Client Reference No. - N° de référence du client</b> F6070-180011	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$XAQ-027-7164
<b>File No. - N° de dossier</b> XAQ-8-41078 (027)	<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 2018-10-03</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Newfoundland Daylight Saving Time NDT	
<b>Delivery Required - Livraison exigée</b> See Herein	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Stevenson, Jacquelyn	<b>Buyer Id - Id de l'acheteur</b> xaq027
<b>Telephone No. - N° de téléphone</b> (902)403-3520 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF FISHERIES AND OCEANS REGL DIR SCIENCE NAFC BLDG WHITE HILLS P.O.BOX 5667 ST JOHNS Newfoundland and Labrador A1C5X1 Canada	
<b>Security - Sécurité</b> This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<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</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>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 Introduction**

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- Part 1            General Information: provides a general description of the requirement;
- Part 2            Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;
- Part 3            Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;
- Part 4            Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;
- Part 5            Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6            Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and
- Part 7            7A, Standing Offer, and 7B, Resulting Contract Clauses:
- 7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;
- 7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Statement of Requirement, the Basis of Payment, the Electronic Payment Instruments, and any other annexes

### **1.2 Summary**

Public Works and Government Services Canada on behalf of the Department of Fisheries and Oceans located in St. John's, NL will establish a Regional Individual Standing Offer (RISO) for the supply and repair of netting, rope and wire components for the Campelen 1800 Survey Trawl on an "as and when" requested basis.

The overall period of the Standing Offer will be for one year with the option to extend the standing offer for an additional one-year period.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

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### **1.3 Security Requirements**

There are no security requirements associated with the requirement of the Standing Offer.

### **1.4 Debriefings**

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

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## **PART 2 - OFFEROR INSTRUCTIONS**

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

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 ([2018-05-22](#)) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of 2006, Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

**Insert: 90 days**

### **2.2 Submission of Offers**

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSO.

### **2.3 Former Public Servant**

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPS, offerors must provide the information required below before the issuance of a standing offer. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of offers is completed, Canada will inform the Offeror of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the offer non-responsive.

#### **Definitions**

For the purposes of this clause,

"former public servant" is any former member of a department as defined in the *Financial Administration Act R.S., 1985, c. F-11*, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;

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- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the *Public Service Superannuation Act (PSSA)*, R.S., 1985, c. P-36, and any increases paid pursuant to the *Supplementary Retirement Benefits Act*, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the *Canadian Forces Superannuation Act*, R.S., 1985, c. C-17, the *Defence Services Pension Continuation Act*, 1970, c. D-3, the *Royal Canadian Mounted Police Pension Continuation Act*, 1970, c. R-10, and the *Royal Canadian Mounted Police Superannuation Act*, R.S., 1985, c. R-11, the *Members of Parliament Retiring Allowances Act*, R.S. 1985, c. M-5, and that portion of pension payable to the *Canada Pension Plan Act*, R.S., 1985, c. C-8.

#### **Former Public Servant in Receipt of a Pension**

As per the above definitions, is the Offeror a FPS in receipt of a pension? **YES ( ) NO ( )**

If so, the Offeror must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Offerors agree that the successful Offeror's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

#### **Work Force Adjustment Directive**

Is the Offeror a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **YES ( ) NO ( )**

If so, the Offeror must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes

## **2.4 Enquiries - Request for Standing Offers**

All enquiries must be submitted in writing to the Standing Offer Authority no later than **FIVE(5)** calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide

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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 offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

## **2.5 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in **NEWFOUNDLAND AND LABRADOR**.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 offerors.

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### **PART 3 - OFFER PREPARATION INSTRUCTIONS**

#### **3.1 Offer Preparation Instructions**

If the Offeror chooses to submit its offer in hard copies, Canada requests that the Offeror provides its offer in separately bound sections as follows:

Section I: Technical Offer (ONE hard copies)

Section II: Financial Offer ( ONE hard copies)

Section III: Certifications ( ONE hard copies)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

Canada requests that offerors follow the format instructions described below in the preparation of hard copy of their offer:

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

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 (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, Offerors 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 Offer**

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

**Section II: Financial Offer**

Offerors must submit their financial offer in accordance with the "Basis of Payment detailed below.

**Section III: Certifications**

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

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### **3.1.1 Electronic Payment of Invoices - Offer**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

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

### **4.1 Evaluation Procedures**

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.
- (c) The evaluation team will determine first if there are two or more offers with a valid Canadian Content certification. In that event, the evaluation process will be limited to the offers with the certification; otherwise, all offers will be evaluated. If some of the offers with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive offers with a valid certification remain, the evaluation will continue among those offers with a valid certification. If all offers with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other offers received will be evaluated.

#### **4.1.1 Technical Evaluation**

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

Bidders who do not meet the following mandatory requirements will be deemed non-responsive and will be given no further consideration.

Bidders must be able to supply all goods and services listed in **Annex "A" and "B"** on an "as and when" requested basis to the Department of Fisheries and Oceans.

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Evaluation of Price - Offer**

*SACC Manual* Clause M0220T (2016-01-28) Evaluation of Price - Offer

### **4.2 Basis of Selection**

#### **4.2.1 Basis of Selection – Mandatory Technical Criteria**

*SACC Manual* Clause (M0031T) (2007-05-25) – Basis of Selection – Mandatory Technical Criteria Only

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

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

### **5.1 Certifications Required with the Offer**

Offerors must submit the following duly completed certifications as part of their offer.

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

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

#### **5.1.2 Additional Certifications Required with the Offer**

This procurement is conditionally limited to Canadian goods and services.

Subject to the evaluation procedures contained in the request for standing offer, offerors acknowledge that only offers with a certification that goods and services offered are Canadian as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the offer will result in the goods and services offered being treated as non-Canadian.

#### **The Offeror certifies that:**

( ) a minimum of 80 percent of the total price of the offer consists of Canadian goods and services as defined in paragraph 1 of clause A3050T.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services consult Annex 3.6 (9) Example 2 of the Supply Manual.

#### **5.1.2.1 Canadian Content Certification**

**5.1.2.1.1** *SACC Manual* clause A3050T (2014-11-27) Canadian Content Definition

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## **5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information**

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer 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>), the Offeror 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 - Standing Offer Certification**

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror 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-Labour's website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

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## **PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES**

### **A. STANDING OFFER**

#### **6.1 Offer**

**6.1.1** The Offeror offers to fulfill the requirement in accordance with the Requirement at **Annex "A"**.

#### **6.2 Security Requirements**

**6.2.1** There is no security requirement applicable to the Standing Offer.

#### **6.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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>) issued by Public Works and Government Services Canada.

##### **6.3.1 General Conditions**

2005 (2017-06-21) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

##### **6.3.2 Standing Offers Reporting**

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

The Offeror must provide this data in accordance with the reporting requirements detailed in annex "C". If some data is not available, the reason must be indicated in the report. If no goods or services is provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted on a *"quarterly basis"* to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- first quarter: April 1 to June 30
- second quarter: July 1 to September 30
- third quarter: October 1 to December 31
- fourth quarter: January 1 to March 31

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The data must be submitted to the Standing Offer Authority no later than 15 (fifteen) calendar days after the end of the reporting period.

#### **6.4 Term of Standing Offer**

##### **6.4.1 Period of the Standing Offer**

The period for making call-ups against the Standing Offer is for one year from award with an additional option year.

##### **6.4.2 Extension of Standing Offer**

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional period, under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority

##### **6.4.3 Delivery Points**

Delivery of the requirement will be made to delivery point(s) specified at **Annex "A"** of the Standing Offer.

#### **6.5 Authorities**

##### **6.5.1 Standing Offer Authority**

The Standing Offer Authority is:

Name: JACQUELYN STEVENSON  
Title: SUPPLY OFFICER  
Public Works and Government Services Canada  
Acquisitions Branch  
  
Telephone: 902.403.3520  
Facsimile: 709.772.4603  
E-mail address: JACQUELYN.STEVENSON@PWGSC.GC.CA

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

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### 6.5.2 Project Authority

The Project Authority for the Standing Offer is:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

E-mail address: \_\_\_\_\_

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up under the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

### 6.5.3 Offeror's Representative

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

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 Identified Users

The Identified Users authorized to make call-ups against the Standing Offer include any government department, agency or Crown Corporation listed in Schedules I, I.1, II, III, of the Financial Administration Act, R.S.C., 1985, c. F-11.

### 6.8 Call-up Procedures

The call-up Authority for the Department will issue the Call-Up to the firm holding the Standing Offer for the noted goods and services.

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## 6.9 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 2 and 3 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.
2. The following form could be used which are available through PWGSC Forms Catalogue website:
  - PWGSC-TPSGC 942 Call-up Against a Standing Offer

## 6.10 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$ **25,000**. (Applicable Taxes included).

## 6.11 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of \$\_\_\_\_\_ (*Applicable Taxes excluded*) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or three months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority

## 6.12 Priority of Documents

If there is a discrepancy between the wordings 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2016-04-04), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010A (2016-04-04) General Conditions – Goods (Medium Complexity)
- e) Annex A, Statement of Requirement
- f) Annex B, Basis of Payment
- g) the Offeror's offer dated \_\_\_\_\_

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## **6.13 Certifications and Additional Information**

### **6.13.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

### **6.14 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in **NEWFOUNDLAND AND LABRADOR.**

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## **B. RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

### **6.1 Statement of Requirement**

The Contractor must provide the items detailed in the call-up against the Standing Offer.

### **6.2 Standard Clauses and Conditions**

#### **6.2.1 General Conditions**

2010A (2018-06-21), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

2010C 2018-06-21 General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

Section 16 - Interest on Overdue Accounts, of 2010A (2018-06-21), General Conditions - Goods (Medium) will not apply to payments made by credit cards.

### **6.3 Term of Contract**

#### **6.3.1 Period of the Contract**

The period of the contract will be for one year with 1 one-year option period.

#### **6.3.2 Delivery Date**

Delivery must be completed in accordance with the call-up against the Standing Offer.

### **6.4 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.

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## 6.5 Payment

### 6.5.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a *firm unit price(s), as specified in in Annex C – Basis of Payment*. **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.

### 6.5.2 Limitation of Price

*SACC Manual* clause C6000C (2017-08-17) Limitation of Price

### 6.5.3 Electronic Payment of Invoices – Call-up

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);

## 6.6 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.

Invoices must be submitted as follows:

- The original and one copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## 6.7 SACC Manual Clauses

*SACC Manual* clause **B7500C (2006-06-16) Excess Goods**

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**ANNEX "A"**

**STATEMENT OF REQUIREMENT**

Public Works and Government Services Canada on behalf of the Department of Fisheries and Oceans located in St. John's, NL will establish a Regional Individual Standing Offer (RISO) for the supply and repair of netting, rope and wire components for the Campelen 1800 Survey Trawl on an "as and when" requested basis as outlined in **Annex B – Basis of Payment**.

**Period of the Standing Offer**

The overall period of the Standing Offer will be for one year with the option to extend the standing offer for an additional one-year period.

**Overall Estimated Value**

\$500,000. Including applicable taxes

**Delivery (FOB Destination):**

Department of Fisheries and Oceans Canada  
Science Branch  
80 East White Hills Road  
P.O. Box 5667  
St. John's, NL  
A1C 5X1  
Attn: George Sheppard



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							YEAR ONE	YEAR ONE	OPTION YEAR	OPTION YEAR
PART	DESCRIPTION	TOLERANCE	DRAWING	PART #	Estimated Quantity (EQ)	Price Per Unit taxes extra (PU)	Extended Price (EQ x PU)	Price Per Unit taxes extra (PU)	Extended Price (EQ x PU)	
A	Repairs - Normal Working Hours 0800-1700 hrs				100	\$	\$	\$	\$	
B	Repairs Outside Normal Hours Monday to Friday / Weekend & Stat Holidays				50	\$	\$	\$	\$	
1	DOOR LEG	DIA. 22mm x 6.1m WIRE 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0-1.2	CT 04	2				
1	EXTENSION	SWAGED AT BOTH ENDS	1.72 - 1.79							
	(Templeman)	FIBRE CORE, MBS = 22 MT	<u>LENGTH (m)</u>							
			6.07 - 6.13							
2	DOOR LEG	DIA. 22mm x 7.62m WIRE 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0-1.2	CT 04	2				
	EXTENSION	SWAGED AT BOTH ENDS	1.72 - 1.79							
	(Teleost)	FIBRE CORE, MBS = 22 MT	<u>LENGTH (m)</u>							
			7.58 - 7.66							
3	PENNANT	A. 19mm x 12.82m WIRE, 6 x 19-9/9/1 CONS	<u>WEIGHT (kg/m)</u>	CAM*1.0-1.2	CT 05	2				
	WIRE	SPLICED AT BOTH ENDS	1.29 - 1.35							
	(Templeman)	FIBRE CORE, MBS = 16 MT								
4	PENNANT	IA. 19mm x 13.8m WIRE, 6 x 19-9/9/1 CONS	<u>WEIGHT (kg/m)</u>	CAM*1.0-1.2	CT 05	2				
	WIRE	SPLICED AT BOTH ENDS	1.29 - 1.35							
	(Teleost)	FIBRE CORE, MBS = 16 MT								
5	UPPER	DIA. 16mm x 20m WIRE, 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 06	2				
	MIDDLE	SWAGED AT BOTH ENDS	0.90 - 0.94							
	BRIDLE EXT.	FIBRE CORE, MBS = 12 MT	<u>LENGTH (m)</u>							
			19.9 - 20.1							
6	UPPER	DIA. 16mm x 20m WIRE, 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 07	2				
	BRIDLE	SWAGED AT BOTH ENDS	0.90 - 0.94							
		FIBRE CORE, MBS = 12 MT	<u>LENGTH (m)</u>							
			19.9 - 20.1							
7	MIDDLE	DIA. 16mm x 20m WIRE, 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 08	2				
	BRIDLE	SWAGED AT BOTH ENDS	0.90 - 0.94							
		FIBRE CORE, MBS = 12 MT	<u>LENGTH (m)</u>							
			19.9 - 20.1							
8	MIDDLE	IA. 20mm x 4.0m COMBINATION WIRE, 6 x 1	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 09	2				
	BRIDLE	POLY JACKET	0.54 - 0.56							
	EXTENSION	SWAGED AT BOTH ENDS	<u>LENGTH (m)</u>							
		STEEL CORE, MBS = 8.87 MT	3.98 - 4.02							
9	LOWER	DIA. 22mm x 40m WIRE, 6 x 19-9/9/1 CONST	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 10	2				
	BRIDLE	SWAGED AT BOTH ENDS	1.72 - 1.79							
		FIBRE CORE, MBS = 22 MT	<u>LENGTH (m)</u>							
			39.8 - 40.2							
10	FLOATS	DIA. 8" (200mm) FLOATS	<u>BUOYANCY (kg)</u>	CAM*1.0	CT 11	100				
		WORKING DEPTH = 1400m	2.56 - 2.66	CAM*2.3						
		COLOR YELLOW	<u>DEPTH (m)</u>							
		BUOYANCY (SEAWATER) = 2.61 kg	1260 - 1540							
		WINGS (2 x 39), BOSUM (10)								
		EXTRA WINGEND FLOATS (2 x 6)								
11	F.R. CHAIN	DIA. 16mm X 7.41m (MID-LINK) CHAIN	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 12	2				
	SECTION A	GRADE 80 ALLOY STEEL, MBS = 30MT	4.86 - 5.06	CAM*3.0-3.2						
	FLYING WING		<u>LENGTH (m)</u>							
			7.37 - 7.45							

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12	F.R. CHAIN	DIA. 16mm X 6.75m (MID-LINK) CHAIN	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 13	2				
	SECTION B	GRADE 80 ALLOY STEEL, MBS = 30MT	4.86 - 5.06	CAM*3.0-3.2			\$	\$	\$	\$
	QUARTERS		<u>LENGTH (m)</u>							
			6.72 - 6.78							
13	F.R. CHAIN	DIA. 16mm X 5.80m (MID-LINK) CHAIN	<u>WEIGHT (kg/m)</u>	CAM*1.0	CT 14	1				
	SECTION C	GRADE 80 ALLOY STEEL, MBS = 30MT	4.86 - 5.06	CAM*3.0-3.2			\$	\$	\$	\$
	BOSUM		<u>LENGTH (m)</u>							
			5.77 - 5.83							
14	8" (200mm)	DIA. 140mm, LENGTH 200mm	<u>WEIGHT (kg)</u>	CAM*3.0-3.2	CT 44	39				
	IRON	STEEL CONSTRUCTION,	5.26 - 5.32	CAM*4.8			\$	\$	\$	\$
	SPACER	WEIGHT (SEAWATER) = 5.29 kg	<u>DIMENSIONS (mm)</u>							
			DIA. = 137.2 - 142.8							
			LENGTH = 196 - 204							
15	14" (356mm)	DIA. 356mm, THICKNESS 54mm	<u>WEIGHT (kg)</u>	CAM*3.0-3.2	CT 45	102				
	ROCK	RUBBER TIRE CONSTRUCTION,	0.41 - 0.45	CAM*4.9			\$	\$	\$	\$
	HOPPER	WEIGHT (SEAWATER) = 0.43 kg								
16	7" (178mm)	DIA. 159mm, LENGTH 178mm,	<u>WEIGHT (kg)</u>	CAM*3.0-3.2	CT 46	34				
	RUBBER	RUBBER CONSTRUCTION,	0.35 - 0.39	CAM*4.10			\$	\$	\$	\$
	SPACER	WEIGHT (SEAWATER) = 0.37 kg	<u>DIMENSIONS (mm)</u>							
			DIA. = 156 - 162							
			LENGTH = 174 - 182							
17	HAMMER- LOCK	5/8" (16mm) HAMMERLOCK S.W.L. = 6.0 MT		CAM*3.0-3.2 CAM*4.5	CT 48	10	\$	\$	\$	\$
18	DELTA PLATE	LENGTH 430mm WEIGHT (SEAWATER) = 5.37 STEEL CONSTRUCTION,	<u>WEIGHT (kg)</u>	CAM*3.0-3.2 CAM*4.11	CT 49	2	\$	\$	\$	\$
			5.10 - 5.64							
19	14" (356mm)	DIA. 356mm, LENGTH 226mm,	<u>WEIGHT (kg)</u>	CAM*3.0-3.2	CT 50	2				
	BUNT	RUBBER CONSTRUCTION,	4.56 - 5.04	CAM*4.12			\$	\$	\$	\$
	BOBBIN	WEIGHT (SEAWATER) = 4.80 kg	<u>DIMENSIONS (mm)</u>							
			DIA. = 349 - 363							
			LENGTH = 221 - 231							
20	6" (152mm)	DIA. 152mm, THICKNESS 8.0 mm, STEEL CON	<u>WEIGHT (kg)</u>	CAM*3.0-3.2	CT 51	8				
	WASHER	WEIGHT (SEAWATER) = 0.42 kg	0.40 - 0.44	CAM*4.13			\$	\$	\$	\$
			<u>DIMENSIONS (mm)</u>							
			DIA. = 149 - 155							
			THICKNESS = 7.84 - 8.16							
21	BOBBIN CHAIN	LENGTH = 415mm WEIGHT (SEAWATER) = 0.58 kg STEEL CONSTRUCTION	<u>WEIGHT (kg/m)</u>	CAM*3.0-3.2 CAM*4.14	CT 52	35				
			0.55 - 0.61				\$	\$	\$	\$
			<u>LENGTH (mm)</u>							
			413 - 417							
22	G-HOOK	1 1/4" G-HOOK AND RECESS LINK (FOR DOOR LEG EXTENSION) S.W.L. = 15.0 MT		CAM*1.1	CT 53	2	\$	\$	\$	\$
23	G-HOOK	1" G-HOOK AND RECESSED LINK (FOR PENNANTS) S.W.L. = 5.0 MT		CAM*1.2	CT 54	2	\$	\$	\$	\$

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24	TOP WING	3650tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0-2.1		2				
		CENTRE CORE, ROUND CONSTRUCTION,	3285 - 4015	CAM*2.3						
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		80mm MESH SIZE (KC), COLOUR GREEN	80 - 82.40				\$	\$	\$	\$
		102 x 32 x 105.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 8.44 m	8.36 - 8.52							
25		R3650tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0-2.1		2				
		CENTRE CORE, ROUND CONSTRUCTION,	3285 - 4015	CAM*2.3						
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		80mm MESH SIZE (KC), COLOUR GREEN	80 - 82.40				\$	\$	\$	\$
		123 x 103 x 41.5 MESHERS DEEP (INCLUDES GUSSET)	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 3.32 m	3.24 - 3.40							
26	SQUARE	3650tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 17	1				
		CENTRE CORE, ROUND CONSTRUCTION,	3285 - 4015							
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		60mm MESH SIZE (KC), COLOUR GREEN	60 - 61.80				\$	\$	\$	\$
		526 x 471 x 55.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 3.33 m	3.27 - 3.39							
27	1ST TOP BELLY	3650tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 18	1				
		CENTRE CORE, ROUND CONSTRUCTION,	3285 - 4015							
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		60mm MESH SIZE (KC), COLOUR GREEN	60 - 61.80							
		470 x 393 x 64.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 3.87 m	3.81 - 3.93							
28	2ND TOP BELLY	2200tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 19	1				
		CENTRE CORE, ROUND CONSTRUCTION,	1980 - 2420							
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		44mm MESH SIZE (KC), COLOUR GREEN	44 - 45.32							
		580 x 240 x 255.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 11.24 m	11.20 - 11.28							
29	3RD TOP BELLY	2200tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 20	1				
		CENTRE CORE, ROUND CONSTRUCTION,	1980 - 2420							
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		44mm MESH SIZE (KC), COLOUR GREEN	44 - 45.32							
		240 x 141 x 99.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 4.38 m	4.34 - 4.42							
30	EXTENSION (1 PANEL)	2200tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 21	2				
		CENTRE CORE, ROUND CONSTRUCTION,	1980 - 2420							
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>							
		44mm MESH SIZE (KC), COLOUR GREEN	44 - 45.32							
		140 x 139 x 199.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		STRETCHED LENGTH = 8.78 m	8.74 - 8.82							
31	LOWER WINGS (60mm)	3650tex BRAIDED POLYETHYLENE NETTING	<u>Rtex</u>	CAM*2.0	CT 22	2				
		CENTRE CORE, ROUND CONSTRUCTION,	3285 - 4015	CAM*2.2						
		AND HEAT STRETCHED	<u>MESH SIZE (mm)</u>	CAM*2.4						
		60mm MESH SIZE (KC), COLOUR GREEN	60 - 61.80							
		122 x 122 x 62.5 MESHERS DEEP	<u>LENGTH (m)</u>							
		(TO INCLUDE GUARD MESHERS & GUSSET)	3.69 - 3.81							
		STRETCHED LENGTH = 3.75 m								

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32	LOWER WINGS (80mm)	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 80mm MESH SIZE (KC), COLOUR GREEN 90 x 90 x 48.5 MESHERS DEEP (TO INCLUDE GUARD MESHERS) STRETCHED LENGTH = 3.88 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 80 - 82.40 <u>LENGTH (m)</u> 3.80 - 3.96	CAM*2.0 CAM*2.2 CAM*2.4	CT 23	2				
33	1ST LOWER BELLY	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 60mm MESH SIZE (KC), COLOUR GREEN 470 x 393 x 64.5 MESHERS DEEP STRETCHED LENGTH = 3.87 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 60 - 61.80 <u>LENGTH (m)</u> 3.81 - 3.93	CAM*2.0	CT 24	1				
34	2ND LOWER BELLY	2200tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 44mm MESH SIZE (KC), COLOUR GREEN 580 x 240 x 255.5 MESHERS DEEP STRETCHED LENGTH = 11.24 m	<u>Rtex</u> 1980 - 2420 <u>MESH SIZE (mm)</u> 44 - 45.32 <u>LENGTH (m)</u> 11.20 - 11.28	CAM*2.0	CT 25	1				
35	3RD LOWER BELLY	2200tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 44mm MESH SIZE (KC), COLOUR GREEN 240 x 141 x 99.5 MESHERS DEEP STRETCHED LENGTH = 4.38 m	<u>Rtex</u> 1980 - 2420 <u>MESH SIZE (mm)</u> 44 - 45.32 <u>LENGTH (m)</u> 4.34 - 4.42	CAM*2.0	CT 26	1				
36	CODEND (1 PANEL)	2200tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 44mm MESH SIZE (KC), COLOUR GREEN 130 x 129 x 199.5 MESHERS DEEP STRETCHED LENGTH = 8.78 m	<u>Rtex</u> 1980 - 2420 <u>MESH SIZE (mm)</u> 44 - 45.32	CAM*2.0	CT 27	2				
37	SIDE PANEL NO. 1	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 80mm MESH SIZE (KC), COLOUR GREEN 95 x 30 x 45.5 MESHERS DEEP STRETCHED LENGTH = 3.64 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 80 - 82.40 <u>LENGTH (m)</u> 3.56 - 3.72	CAM*2.0	CT 28	2				
38	SIDE PANEL NO. 2	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 80mm MESH SIZE (KC), COLOUR GREEN 100 x 99 x 41.5 MESHERS DEEP STRETCHED LENGTH = 3.32 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 80 - 82.40 <u>LENGTH (m)</u> 3.24 - 3.40	CAM*2.0	CT 29	2				

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39	SIDE PANEL NO. 3	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 60mm MESH SIZE (KC), COLOUR GREEN 130 x 129 x 55.5 MESHES DEEP STRETCHED LENGTH = 3.33 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 60 - 61.80 <u>LENGTH (m)</u> 3.27 - 3.39	CAM*2.0	CT 30	2				
40	SIDE PANEL NO. 4	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 60mm MESH SIZE (KC), COLOUR GREEN 130 x 129 x 64.5 MESHES DEEP STRETCHED LENGTH = 3.87 m	<u>Rtex</u> 3285 - 4015 <u>MESH SIZE (mm)</u> 60 - 61.80 <u>LENGTH (m)</u> 3.81 - 3.93	CAM*2.0	CT 30	2				
41	SIDE PANEL NO. 5	3650tex BRAIDED POLYETHYLENE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 44mm MESH SIZE (KC), COLOUR GREEN 189 x 18 x 255.5 MESHES DEEP STRETCHED LENGTH = 11.24 m	<u>Rtex</u> 1980 - 2420 <u>MESH SIZE (mm)</u> 44 - 45.32 <u>LENGTH (m)</u> 11.20 - 11.28	CAM*2.0	CT 31	2				
42	CODEND COVER (1 PANEL)	5263tex BRAIDED POLYETHYLENE NETTING DOUBLE NETTING CENTRE CORE, ROUND CONSTRUCTION, AND HEAT STRETCHED 140mm MESH SIZE (KC), COLOUR GREEN 40 x 39 x 59.5 MESHES DEEP	<u>Rtex</u> 4737 - 5789 <u>MESH SIZE (mm)</u> 140 - 144.20	CAM*2.0	CT 32	4				
43	HEADLINE (3 PIECES)	DIA. 22mm COMBINATION WIRE, 6 x 12 POLY JACKET, STEEL CORE, MBS = 14 MT SWAGED AT BOTH ENDS LENGTH = (1 x 2.44m, 2 x 13.43m)	<u>WEIGHT (kg/m)</u> 0.72 - 0.74 <u>LENGTH (m)</u> 1 @ 2.43 - 2.45 2 @ 13.36 - 13.50	CAM*1.0 CAM*2.0 CAM*2.3	CT 33	1				
44	UPPER WINGLINE	A. 20mm x 8.02m COMBINATION WIRE, 6 x POLY JACKET, STEEL CORE, MBS = 8.87 M SWAGED AT BOTH ENDS LENGTH = 8.02m	<u>WEIGHT (kg/m)</u> 0.55 +/- 2% <u>LENGTH (m)</u> 7.98 - 8.06	CAM*1.0 CAM*2.0	CT 35	2				
45	FISHING LINE (3 PIECES)	A. 22mm x 19.50m COMBINATION WIRE, 6 x POLY JACKET, STEEL CORE, MBS = 14.0 M SWAGED AT BOTH ENDS LENGTH = (1 x 2.44m, 2 x 8.43m)	<u>WEIGHT (kg/m)</u> 0.72 - 0.74 <u>LENGTH (m)</u> 1 @ 2.43 - 2.45 2 @ 8.39 - 8.47	CAM*1.0 CAM*2.0 CAM*3.2	CT 36	1				
46	LOWER WINGLINE	A. 22mm x 2.34m COMBINATION WIRE, 6 x SWAGED AT BOTH ENDS POLY JACKET, STEEL CORE, MBS = 14.0 M LENGTH = 2.34m	<u>WEIGHT (kg/m)</u> 0.72 - 0.74 <u>LENGTH (m)</u> 2.33 - 2.35	CAM*1.0 CAM*2.0	CT 38	2				
47	UPPER BREASTLINE	A. 20mm x 3.60m COMBINATION WIRE, 6 x POLY JACKET, STEEL CORE, MBS = 8.87 M SWAGED AT BOTH ENDS LENGTH = 3.60m	<u>WEIGHT (kg/m)</u> 0.54 - 0.56 <u>LENGTH (m)</u> 3.58 - 3.62	CAM*1.0 CAM*2.0	CT 40	2				

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48	LOWER BREASTLINE	A. 20mm x 3.60m COMBINATION WIRE, 6 x POLY JACKET, STEEL CORE, MBS = 8.87 M SWAGED AT BOTH ENDS LENGTH = 3.60m	<u>WEIGHT (kg/m)</u> 0.54 - 0.56 <u>LENGTH (m)</u> 3.58 - 3.62	CAM*1.0 CAM*2.0	CT 40	2					
49	LINER	DIA. 1mm KNOTLESS NETTING 12.7mm STRETCHED MESH, COLOUR WHITE 7.0m x 7.0m x 10.20m	<u>MESH SIZE (mm)</u> 12.3 - 13.1	CAM*2.0	CT 55	2					
50	MENDING TWINE	2.5 mm, R>2400tex BRAIDED POLYETHYLE CENTRE CORE, ROUND CONSTRUCTION MBS ≥ 86 Kgf. COLOUR GREEN AND ORANGE	<u>Rtex</u> 2469 - 3448 <u>MBS (Kgf.)</u> 86 - 174			N/A					
51	MENDING TWINE	3.0 mm, R>3000tex BRAIDED POLYETHYLE CENTRE CORE, ROUND CONSTRUCTION MBS ≥ 120 Kgf. COLOUR GREEN	<u>Rtex</u> 3559 - 4348 <u>MBS (Kgf.)</u> 120 - 192			N/A					
52	LACING TWINE	DIA. 2.0 mm, R>2700tex BRAIDED NYLON CENTRE CORE, ROUND CONSTRUCTION MBS ≥ 133 Kgf. COLOUR WHITE	<u>Rtex</u> 2778-3125 <u>MBS (Kgf.)</u> 133 - 370			N/A					
53	LACING TWINE	2.5 mm, R>2400tex BRAIDED POLYETHYLE CENTRE CORE, ROUND CONSTRUCTION MBS ≥ 86 Kgf. COLOUR GREEN	<u>Rtex</u> 2469 - 3448 <u>MBS (Kgf.)</u> 86 - 174			N/A					
54	SWEEPLINE WIRE	DIA. 19mm x 38m WIRE, 6 x 19-9/9/1 CONST SPliced AT BOTH ENDS WRAPPED IN BU FIBRE CORE, MBS = 16 MT	<u>WEIGHT (kg/m)</u> 1.29 - 1.35			1					
55	SWEEPLINE WIRE	IA. 19mm x 33.5m WIRE, 6 x 19-9/9/1 CONST SPliced AT BOTH ENDS WRAPPED IN BU FIBRE CORE, MBS = 16 MT	<u>WEIGHT (kg/m)</u> 1.29 - 1.35			1					
56	Hammer Lock	3/4" (19mm) HAMMERLOCK S.W.L. = 6.0 MT				1					
							<b>Year ONE</b>	<b>OPTION YEAR</b>			
<b>Total Extended Amount (TEA)</b> (applicable taxes extra								\$	\$		

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**ANNEX "C" to PART 3 OF THE REQUEST FOR STANDING OFFERS**

**ELECTRONIC PAYMENT INSTRUMENTS**

**As indicated in Part 3, clause 3.1.2, the Offeror must complete the information requested below, to identify which electronic payment instruments are accepted for the payment of invoices.**

The Offeror accepts to be paid by any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);

## CHAPTER 3

### TRAWL SPECIFICATION PROTOCOLS

#### 3.1 INTRODUCTION

The Campelen 1800 shrimp trawl has been used as the annual multi-species bottom survey trawl at NAFC since the fall of 1995. The trawl, 'Campelen 1800 Super bottom trawl', as it is correctly known, was designed by Cosmos Trawl, Hirtshals/Skagen, Denmark who provided a copy of the design to NAFC in 1992. It is a 3-bridle, 4 panel, high opening polyethylene trawl with small rockhopper footgear and a small mesh liner in the codend. The trawl has a fishing circle of 1800 meshes of 60 mm twine with large side panels extending from ahead of the footgear back to the end of the 2nd belly. In this design the fore section of the lower trawl wing has been cut away, i.e., 'flying wing', leaving a bunt wing section that is in line with the top wing bunt.

The top and centre bridle merge into a single cable leaving only two main towing bridles connected to each door leg extension. By making the centre bridle shorter than the top and bottom bridles much of the strain is taken in the centre of the net allowing the top panel to rise up under the action of the floats and the lower panel to 'dig' in due to the footgear weight.

The footrope is of rockhopper construction consisting of  $102 \times 35.6$  cm diameter tightly packed rubber disks, rubber and iron spacers and washers. The trawl is spread by  $4.3 \text{ m}^2$  Morgère polyvalent trawl doors weighing 1400 kg.

This Chapter serves as an introduction to the Campelen Trawl Drawings and Parts List, and is integral to the protocols in the chapters on Procurement (4), Construction (6), Repair (7) and Quality Assurance (8).

#### 3.2 TRAWL DRAWINGS

The trawl plan is the primary form of engineering and construction drawings used to visually convey the form and specification of the Campelen trawl. Technical specifications of the trawl drawings are not drawn to scale but are sufficient to give the impression of proportions and accuracy for assemblage. The Trawl Drawings are presented in a series of 28 pages (APPENDIX 1) with each drawing carrying an unique number and each component is cross-referenced with a Trawl Parts List number (APPENDIX 2). Twelve drawings describe the rigging of the Campelen trawl and an additional 16 drawings describe in detail various hardware (Parts List) used in the trawl.

Specification of wire, chain and rope include construction, Minimum Breaking Strength (MBS), and grade.

### 3.3 RUNNING LINES

#### 3.3.1 BRIDLES (Drawing Number CAM\*1.0)

The bridles are made up of upper (20 m), upper/middle bridle extension (20 m) and middle (20 m) bridles consisting of 16 mm diameter 6x19-9/9/1 fiber core, galvanized wire rope (MBS=12 mt) swaged at both ends with the lower (40 m) bridle having a larger 22 mm diameter (MBS=22 mt). The middle bridle has a 3.97 m extension made of 20 mm diameter combination rope (MBS=8.87 mt) swaged at both ends.

The sections are joined with 5/8" hammerlocks. The 39.4 cm eye splices are included in the overall length measurements. Length measurements do not include the hammerlocks.

#### 3.3.2 DOOR LEGS AND EXTENSIONS (Drawing Number CAM\*1.1)

The 3.05 m upper and lower door legs are made up of 16 mm mid-link chain (Grade 80 alloy steel; MBS=20 mt) and are hammerlocked into the forward hole of the door using a combination of 5/8 inch and 3/4 inch hammerlocks. The aft end of the door legs are attached to the door leg extension with a 3/4 inch hammerlock.

The 6.1 m door leg extensions for the CCGS *W. Templeman* and the 7.62 m door leg extensions of the CCGS *Teleost* are made up of 22 mm diameter 6x19-9/9/1 fiber core, galvanized wire rope (MBS=22 mt) swaged at both ends. The fore extension is connected to the bridles with a 1 1/4 inch G-hook-recess link combination which is hammerlocked (5/8 inch) into the upper-middle bridle extension, lower bridle and pennant wire. The 39.4 cm eye splices are included in the overall length measurements.

Hammerlocks are not included in any of the length measurements.

#### 3.3.3 DOOR PENNANTS (Drawing Number CAM\*1.2)

The 12.82 m pennant wires for the CCGS *W. Templeman* and the 13.80 m wires for the CCGS *Teleost* are made up of 19 mm diameter 6x19-9/9/1 fiber core, galvanized wire rope (MBS=16 mt) spliced at both ends. The forward end of the pennant wire is attached to the door frame using a combination of hammerlocks, G-hook-recess links and chain.

Hammerlocks are not included in any of the length measurements.

### 3.4 NETTING (Drawing Numbers CAM\*2.0 to 2.5)

The webbing for all panel sections is single braided polyethylene knotted netting (with the exception of the codend cover which is double knotted polyethylene netting), pre-stretched, heat treated and dyed green. Mesh sizes are stretch measures using knot center- to - knot center. Trawl construction is of 4.0, 3.0 and 2.0 mm diameter polyethylene twine varying in mesh size from: 80 mm in top wings and corresponding 1<sup>st</sup> and 2<sup>nd</sup> side panels; 80 and 60 mm in lower wings; 60 mm in the square and 1<sup>st</sup> belly and 3<sup>rd</sup> and 4<sup>th</sup> side panels; and, 44 mm in 2<sup>nd</sup> and 3<sup>rd</sup> bellies, 5<sup>th</sup> side panel, codend extension and codend. There is little-to-no-slack in the netting panels with the exception of lower bunt wings (60mm), where the slack is mainly located, and this bunt section is 7 meshes longer than the corresponding side panel. Stretch lengths of panels do not include joining rounds. Panel widths include selvage meshes.

The main netting has a single selvage with the top and bottom sections of the net joined together at their sides by gathering three meshes (four knots) for each stop. (See Chapter 6:Trawl Construction Protocols). Specification of netting selvages for gussets and guard meshes and the codend assembly is as follows:

- 3.3.1 **GUSSET and GUARD MESHES:** The 80 mm mesh size gussets/guard meshes in the top wings and 140 mm mesh size guard meshes in the lower wings are double braided polyethylene knotted netting. Two knots from guard netting and lower wing form the selvage.
- 3.3.2 **CODEND:** The codend is a two panel construction with single braided polyethylene 44 mm stretched mesh knotted netting. The selvage is created in the same manner as in the main netting. The codend is closed at terminal end using a series of knitted loops (~2 inches) constructed of braided nylon twine. Loops are hung to the codend using a general ratio of 1 loop to 2-3 meshes of codend and cover. A 3/4" Sampson braided nylon rope is passed through the nylon loops and the bag is then closed using a chain knot.
- 3.3.3 **CODEND LINER:** the 2 panel liner is 12.7 mm stretched meshed knotless white nylon netting. It is hung on the inside of the codend 2 meshes deep fore of the join of the codend and the extension section. It is attached to every mesh in the top of the codend. The selvage of the liner is created by gathering the two panels and lacing an approximately 1/2" roll of the material. The liner is closed off with 3 mm poly twine near the section where it extends outside the codend.

- 3.3.4 **CODEND COVER:** The codend cover is a 140 mm stretched meshed two panel construction, 2 mm double braided polyethylene knotted netting covering the extension and codend. It is attached to the extension piece 20.5 meshes deep from where the extension joins the third belly. The selvedge (3 meshes) is laced to the ribline.

### 3.4 FRAME LINES

#### 3.4.1 **HEADLINE (Drawing Number CAM\*2.0)**

The 29.5 m headline is made up of 3 sections<sup>1</sup> of 22 mm diameter combination rope (MBS=14 mt). The 2x13.5 m quarter and 1x 2.44 m bosom sections are swaged at both ends and hammer locked together. The length of the headline includes the length of the joining hammerlocks and all 39.4 cm eye splices.

#### 3.4.2 **BOLSHLINES (Drawing Number CAM\*2.0)**

The upper 29.95 m bolshline is made up of 3 sections of 16 mm diameter pre-stretched Kraft rope ( MBS=5.8 mt). The 2x13.5 m quarter and 1x2.89 m bosom sections are seized together with nylon twine at the eye splices.

The lower 20.00 m bolshline is made up of 3 sections of 16 mm diameter Kraft rope. The 8.75 m quarter and 1x2.70 m bosom sections are seized together with nylon twine at the eye splices

The lower wingend bolshlines are 2.34 m length of 16 mm diameter Kraft rope.

All lines include the standard eye tucks of 12.7 cm at each end. The lengths of the upper and lower bolshline includes the length of the joins and all eye splices.

#### 3.4.3 **BREASTLINES/WINGLINES (Drawing Number CAM\*2.0)**

The 8.02 m upper wingline, and the 3.60 m upper and lower breastlines use 20 mm diameter combination rope (MBS=8.87 mt).

The 2.34 m lower winglines are made up of 22 mm diameter combination rope (MBS=14 mt).

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<sup>1</sup> (6×12) polypropylene jacket over a steel core

The sections are swaged at both ends. The lengths includes the length of the 39.4 cm eye splices but no hammerlocks.

#### 3.4.4 **RIBLINES (Drawing Number CAM\*2.0)**

The riblines are made up of 4 sections of 20 mm diameter pre-stretched Kraft rope (MBS=10 mt). The 1x 16.0 m codend-extension section, 1x 4.0 3<sup>rd</sup> belly section, 2x10.22 m 2<sup>nd</sup> belly sections and 2x 10.59 m 1<sup>st</sup> belly and square sections are seized (butted) together with nylon twine at the eye splices. The latter two sections form the upper and lower riblines. The lengths of the riblines include the eye splices but not the joins. All riblines include the standard eye tucks of 12.7 cm at each end.

#### 3.4.5 **FISHINGLINE (Drawing Number CAM\*2.0 & 3.2)**

The 19.5 m headline is made up of 3 sections of 22 mm diameter combination rope (MBS=14 mt). The 2x8.43 quarter and 1x2.44 m bosom sections are swaged at both ends and hammer locked together.

The length of the fishing line includes the length of the hammerlocks and all 39.4 cm eye splices

### 3.5 **FOOTGEAR (Drawing Numbers CAM\*3.0 to 3.2 & Appendix B)**

The footgear is symmetrical about the centre line 35.60 m (length includes hammerlocks) of 16 mm (5/8 inch) long mid-link galvanized Grade 80 alloy chain comprising 5 sections of the footgear. Onto the bosom (5.9 m) and quarter sections (6.85 m/each) are strung, under tension, 34x14 inch (356 mm) rubber rockhopper disks in sets separated by 34x7inch rubber and 39x8 inch iron spacers and 6x6 inch steel washers. The length of each footrope chain section is measured from centre hammerlock to centre hammerlock with the exception of the aft end of each flying wing chain eye splice where the hammerlock length is not included.

Each quarter section is hammerlocked into the lower swivel/hole at one end of a 3 holed-triangular shaped delta plate. At the opposite lower end hole of the plate is attached an 8 m flying wing made up of 16 mm (5/8 inch) long mid-link galvanized Grade 80 alloy chain to which, at the aft end, is attached a 6 inch washer-14 inch rubber bunt bobbin-7 inch spacer arrangement. Upon assembly the fore end of the flying wing hammerlocks into the lower bridle.

Once the footgear is assembled a 19.5 m x 9.5 mm (3/8 inch) long mid-link galvanized Grade 80 alloy (travel) chain is strung through the top of each disk and

hammerlocked into the top swivel/hole of each delta plate above the footrope attachment. The 35 bobbin chains, each 393 mm (15.5 inches) long are wrapped once around the travel chain over the centre of each iron spacer, except where two sections of the footgear meet they are located over a rubber spacer. The total weight (in seawater) of the footgear is 503.41 kg.

The fishing line passes through both end rings of the bobbin chains. Into the top hole of the delta plate are hammerlocked the lower wingline, lower wingend bolshline, lower bolshline, and fishing line.

### 3.6 ATTACHMENTS

#### 3.6.1 DOORS (Drawing Number CAM\*1.1 & 1.2; CAM\*4.0 to 4.2)

The trawl doors are 4.3m<sup>2</sup> Morgère<sup>2</sup> single slot, cambered, oval polyvalent doors painted black. Weight in air is 1400 kg. The doors have three (aft, middle and forward) removable shoes. A 38 mm (1 ½”) oval action swivel ( Safe Working Load (SWL)=18 mt) connects the trawl warp to a 38 mm (1 ½”) bow shackle ( SWL=17 mt) bolted into the centre brace of the door.

Each door will have a engraved number code and a Scanmar door sensor pocket installed.

#### 3.6.2 FLOTATION (Drawing Number CAM\*2.3)

Eighty-eight 8" (200 mm) deep-water ( rated ~ 1400 m) yellow trawl floats (2.61 kg of buoyancy each) hung evenly to headline (10 in bosum and 39 along the quarters of the wings). Six extra floats (13.05 kg buoyancy) of the same dimensions are seized to backside of the headline on each wing end to counter the negative buoyancy of the Scanmar wing canisters. Total number of floats used on the headline is 100 (261 kg of buoyancy).

#### 3.6.3 TRAWL WARPS (Drawing Number CAM\*1.0)

The type of warp construction is a galvanized steel strand wire with a steel core (IWRC) and is composed of 6 steel strands containing 19 wires. The individual wires are twisted into a strand and the strand is then twisted around a steel core. Each warp diameter is 25.4 mm and its MBL is 49.5 mt. Weight is specified as 2.92 kg/m ( ± 3% tolerance).

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<sup>2</sup> In the spring of 1996 the CCGS *Wilfred Templeman* purchased a new set of trawl doors meeting the same specifications, but not made by Morgère. After some days of fishing it was recognized that these doors were very unstable and were falling over. These doors were replaced with the spare set from the CCGS *Teleost* and after a few test trials they were found to work perfectly. It is for this reason that the Morgère brand is specified for the trawl doors.

The wire is generally purchased in 4000 m lengths on reels<sup>3</sup> to satisfy the requirements of both vessels and is pre-lubricated with light petroleum or solvent-based penetrating lubricant before it leaves the factory. The warps are specified as one being left lay and the other right lay.

#### 3.6.4 SCANMAR WING CANNISTERS AND CTD BOARD & CANNISTER (CAM\* 4.3 & 4.4)

Although not a part of the Campelen trawl itself, special wing canisters each ~ 12 kg weight in water) were developed to house the SCANMAR wingend sensors. An additional 12 floats are used on the headline at each end to make them near neutral buoyant.

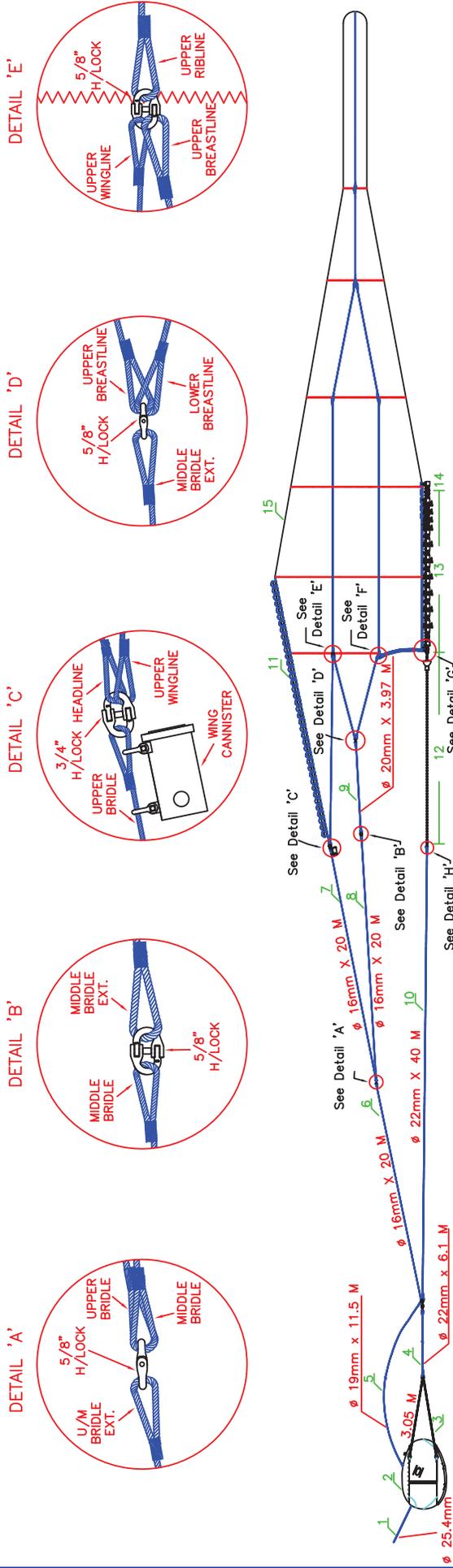
The Oceanographic conductivity-temperature-depth (CTD) probe is attached to the centre of the headline and sits in over the square. The 4.9 kg (weight in water) probe sits inside a shock absorbing canister (7.2 kg weight in water) connected to a UHMV polyethylene mounting board (1.4 kg weight in water). No extra floats are used since the upward lifting force of the board negates the weight of the unit. ***Note: the bosom floats on the headline remain in front of the CTD board; do not string them down the side of the board.***

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<sup>3</sup> At present CCGS *Teleost* can carry 4000 m and CCGS *W. Templeman* and her sister ship CCGS *A. Needler* can only accommodate 3500 m.

# SECTION 1 – RIGGING

NOTE:  
 - HAMMERLOCKS ARE NOT INCLUDED  
 IN LENGTH MEASUREMENTS



DETAIL 'A'

DETAIL 'B'

DETAIL 'C'

DETAIL 'D'

DETAIL 'E'

DETAIL 'F'

DETAIL 'G'

DETAIL 'H'

#	COMPONENT	MATERIALS	QTY	PAGE NO.	PART NO.
1	Warp	Wire 6 x 19	2	1-3	CT01
2	4.58 sqm Door	1400 kg Oval	2	1-3,13-14	CT02
3	Door Legs	16mm Chain	4	1-3	CT03
4	Door Leg Extn	Wire 6 x 19	2	1-3	CT04
5	Pennant Wire	Wire 6 x 19	1	1-3	CT05
6	U/M Bridle Ext.	Wire 6 x 19	2	1	CT06
7	Upper Bridle	Wire 6 x 19	2	1	CT07
8	Middle Bridle	Wire 6 x 19	2	1	CT08
9	Middle Bridle Ext.	Comb. Rope	2	1	CT09
10	Lower Bridle	Wire 6 x 19	2	1	CT10
11	Floats (203mm)	Plastic	100	1,7	CT11
12	F/Gear Sect. A	Chain 16mm $\phi$	2	1,10-12	CT12
13	F/Gear Sect. B	Chain 16mm $\phi$	2	1,10-12	CT13
14	F/Gear Sect. C	Chain 16mm $\phi$	1	1,10-12	CT14
15	Trawl Body	PE Netting	1	1,4	CT15



Fisheries and Oceans  
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 Canada

CAMPELEON 1800 SURVEY TRAWL  
 RIGGING PROFILE

DATE DRAWN:	DWG NO.:	REV.	SCALE:
12/01/15	CAM*1.0	PG 1 OF 28 PG	4 NTS

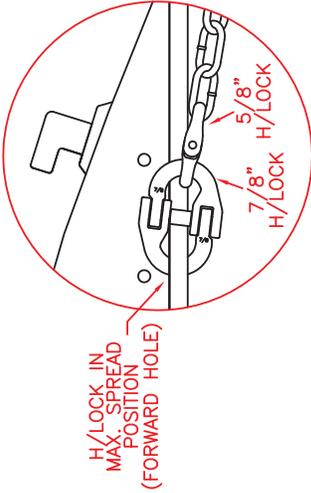
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 ST. JOHN'S NEWFOUNDLAND

SEE APPENDIX B

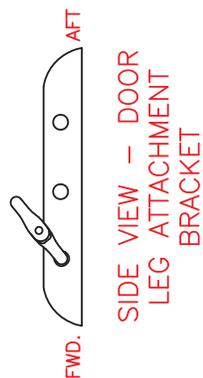
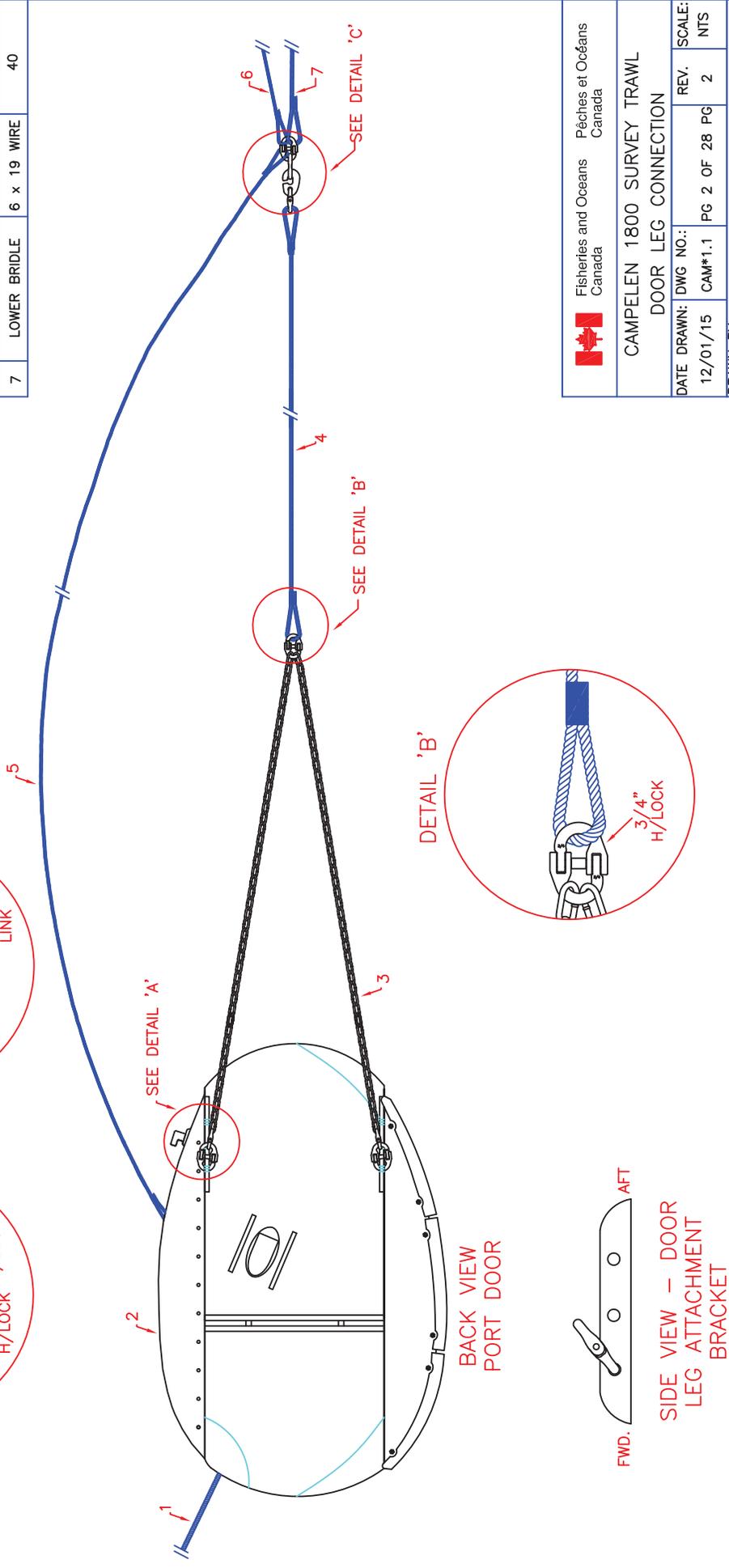
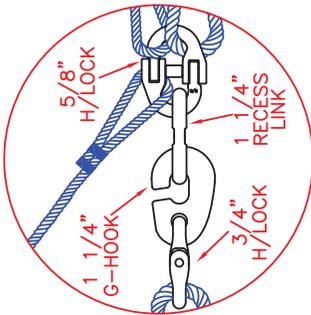


#	COMPONENT	MATERIALS	LENGTH(m)
1	WARP	6 x 19 WIRE	N/A
2	TRAWL DOOR	1400 kg OVAL	3.10
3	DOOR LEGS	16mm CHAIN	3.05
4A	WT DOOR LEG EXT.	6 x 19 WIRE	6.1
4B	TEL DOOR LEG EXT.	6 x 19 WIRE	7.62
5A	WT PENNANT WIRE	6 x 19 WIRE	12.82
5B	TEL PENNANT WIRE	6 x 19 WIRE	13.8
6	U/M BRIDLE EXT.	6 x 19 WIRE	20
7	LOWER BRIDLE	6 x 19 WIRE	40

DETAIL 'A'



DETAIL 'C'



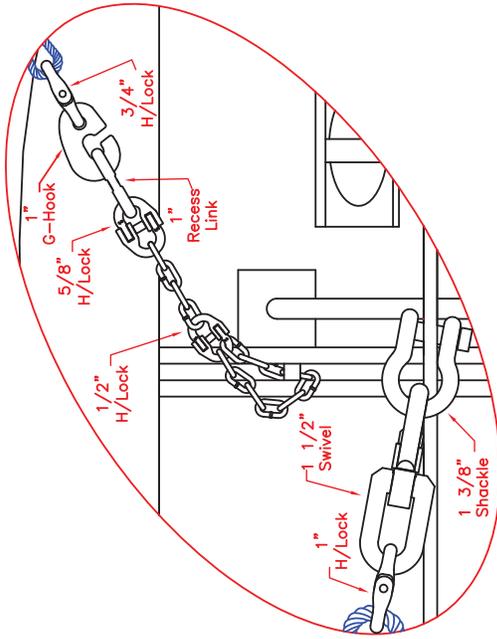
SIDE VIEW - DOOR LEG ATTACHMENT BRACKET

 Fisheries and Oceans Canada / Pêches et Océans Canada  
**CAMPELEN 1800 SURVEY TRAWL**  
 DOOR LEG CONNECTION  
 DRAWN BY: INSTITUTE OF MARINE TECHNOLOGY, ST. JOHN'S NEWFOUNDLAND  
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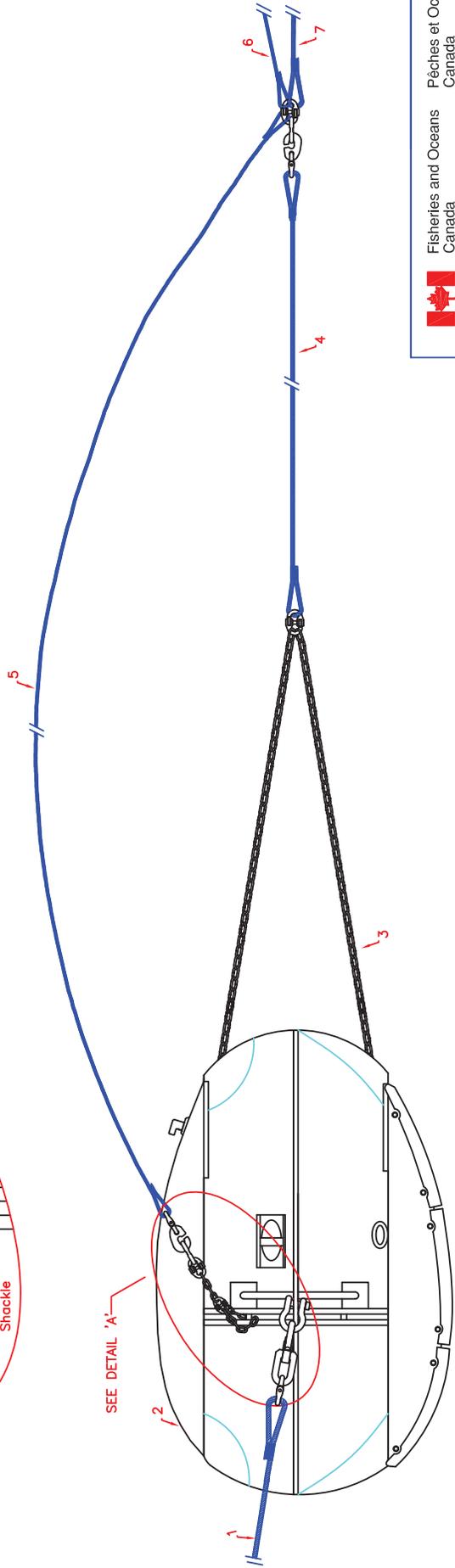
DATE DRAWN: 12/01/15	DWG NO.: CAM*1.1	PG 2 OF 28	REV. 2	SCALE: NTS
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#	COMPONENT	MATERIALS	LENGTH(m)
1	WARP	6 x 19 WIRE	N/A
2	TRAWL DOOR	1400 kg OVAL	3.10
3	DOOR LEGS	16mm CHAIN	3.05
4A	WT DOOR LEG EXT.	6 x 19 WIRE	6.1
4B	TEL DOOR LEG EXT.	6 x 19 WIRE	7.62
5A	WT PENNANT WIRE	6 x 19 WIRE	12.82
5B	TEL PENNANT WIRE	6 x 19 WIRE	13.8
6	U/M BRIDLE EXT.	6 x 19 WIRE	20
7	LOWER BRIDLE	6 x 19 WIRE	40

DETAIL 'A'



SEE DETAIL 'A'



FRONT VIEW  
STBD DOOR

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Canada

CAMPELEN 1800 SURVEY TRAWL  
PENNANT CHAIN CONNECTION

DATE DRAWN:	DWG NO.:	REV.	SCALE:
12/01/15	CAM*1.2	PG 3 OF 28	NTS

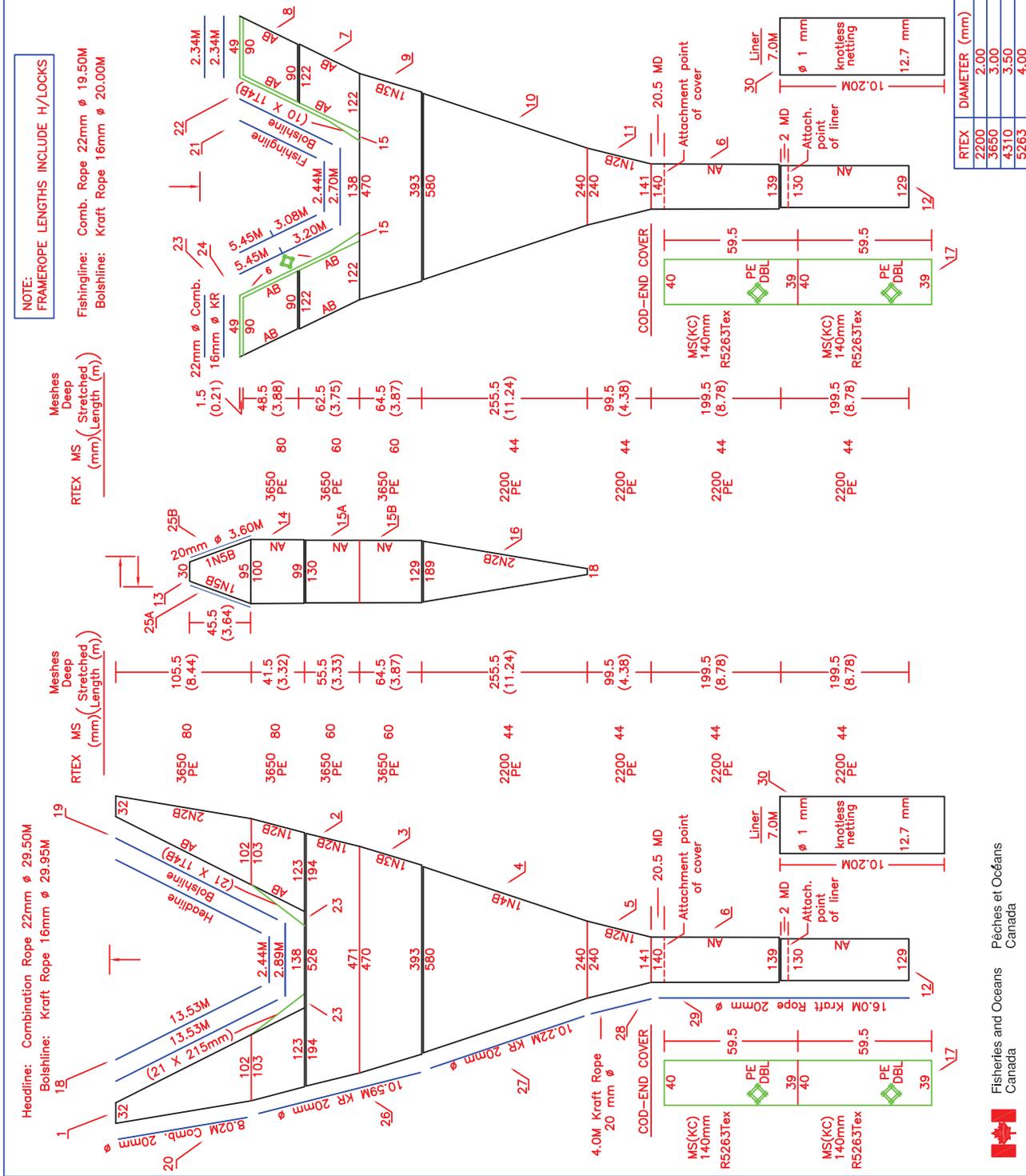
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# SECTION 2 – NETTING

NOTE:  
FRAMEROPE LENGTHS INCLUDE H/LOCKS

Fishingline: Comb. Rope 22mm  $\phi$  19.50M  
Bolshline: Kraft Rope 16mm  $\phi$  20.00M



#	COMPONENT	MATERIALS	QTY.	PAGE NO.	PART NO.
1	Top Wing	PE Netting	2	4,57	CT16
2	Square	PE Netting	1	4	CT17
3	1st Belly Top	PE Netting	1	4	CT18
4	2nd Belly Top	PE Netting	1	4	CT19
5	3rd Belly top	PE Netting	1	4	CT20
6	Extension (1 Panel)	PE Netting	2	4	CT21
7	Lower Wing 80mm	PE Netting	2	4,6,8	CT22
8	Lower Wing 80mm	PE Netting	2	4,6,8	CT23
9	1st Belly Lower	PE Netting	1	4	CT24
10	2nd Belly Lower	PE Netting	1	4	CT25
11	3rd Belly Lower	PE Netting	1	4	CT26
12	Codend (1 Panel)	PE Netting	4	4	CT27
13	Side Panel No.1	PE Netting	2	4	CT28
14	Side Panel No.2	PE Netting	2	4	CT29
15A	Side Panel No.3	PE Netting	2	4	CT30
15B	Side Panel No.4	PE Netting	2	4	CT30
16	Side Panel No.5	PE Netting	2	4	CT31
17	Codend Cover(1 Panel)	PE Netting	2	4	CT32
18	Headline	Comb. Rope	3	4,7	CT33
19	Upper Bolshline	Kraft Rope	3	4,7	CT34
20	Upper Wingline	Comb. Rope	2	4	CT35
21	Fishingline	Comb. Rope	3	4,12	CT36
22	Lower Bolshline	Kraft Rope	3	4,12	CT37
23	Lower Wingline	Comb. Rope	2	4	CT38
24	L/Wingend Bolshline	Kraft Rope	2	4	CT39
25A	Upper Breastline	Comb. Rope	2	4	CT40
25B	Lower Breastline	Comb. Rope	2	4	CT40
26	Ribline #1	Kraft Rope	4	4	CT41
27	Ribline #3	Kraft Rope	2	4	CT43
28	Ribline #4	Kraft Rope	2	4	CT44
29	Ribline #4	Kraft Rope	2	4	CT44
30	Liner (1 panel)	Nylon	2	4	CT55

REMARKS  
 - TOP WING GUSSETS R4310TEX 80mm MESH SIZE  
 - 2 KNOTS FROM GUARD NETTING R5263TEX AND LOWER WING NETTING FORM SELVEDGE  
 - LOWER WING GUARD MESHES 140mm KC  
 - 2 KNOTS TO BE TAKEN UP ON ALL FRAMEROPES EXCEPT FOR THE 114B TAPERS  
 - ALL RIBLINES SEIZED TOGETHER WITH NYLON TWINE  
 - STRETCHED LENGTH DOESN'T INCLUDE JOINING ROUNDS  
 - PANEL WIDTHS INCLUDE SELVEDGE MESHES  
 - 4 KNOTS TO BE TAKEN UP IN SELVEDGE  
 - MESH SIZES ARE KNOT CENTER MEASUREMENTS



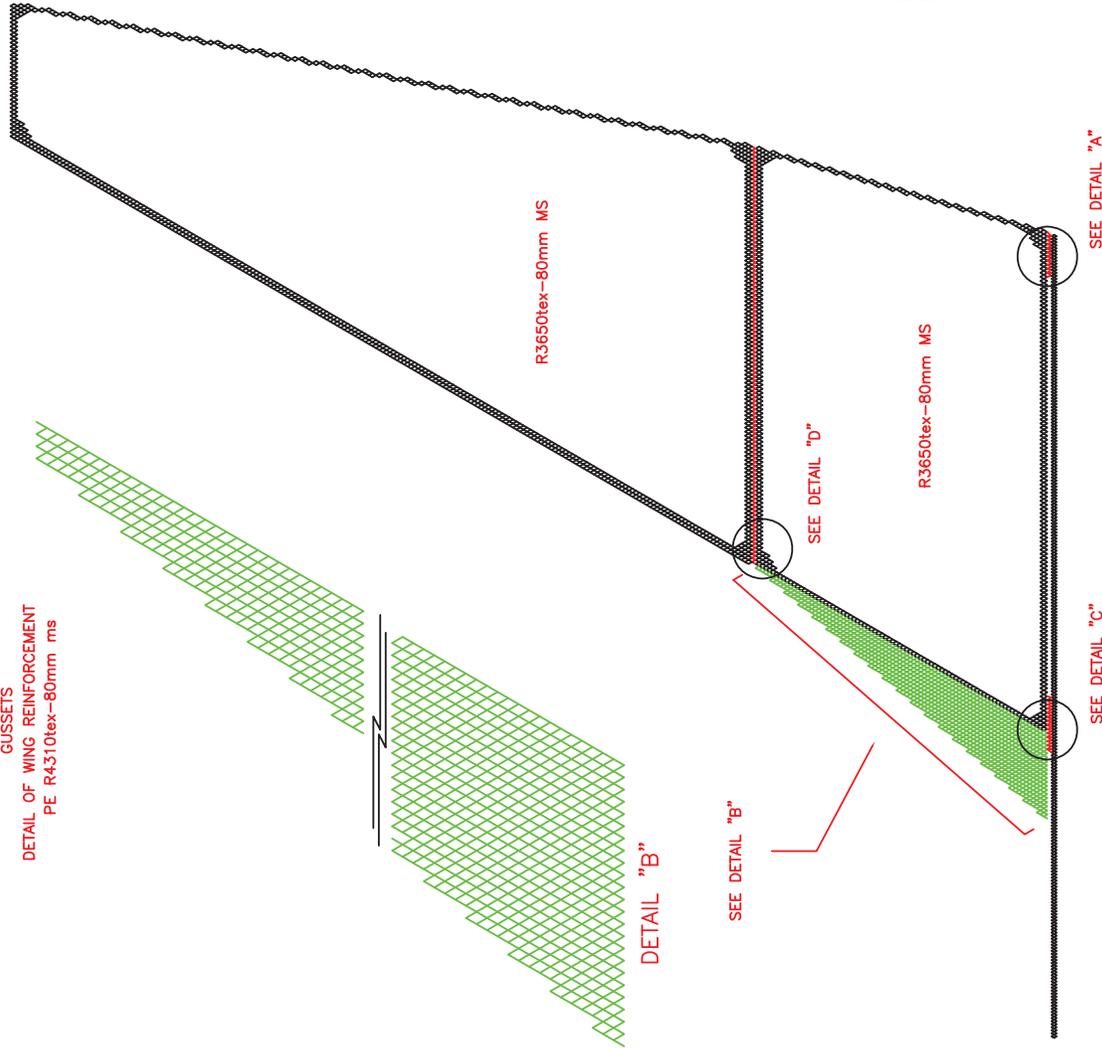
CAMPELEN 1800 SURVEY TRAWL  
NET PLAN

DATE DRAWN:	DWG NO.:	SCALE:
15/07/14	CAM#2.0	PG 4 OF 28 PG
REV.:		4
NTS		

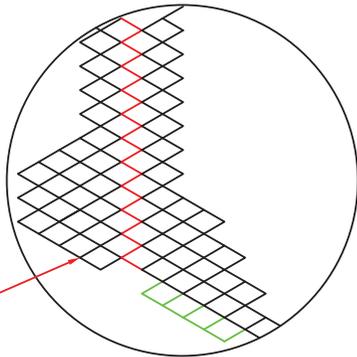
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RTEX	DIAMETER (mm)
2200	2.00
3650	3.00
4310	3.50
5263	4.00

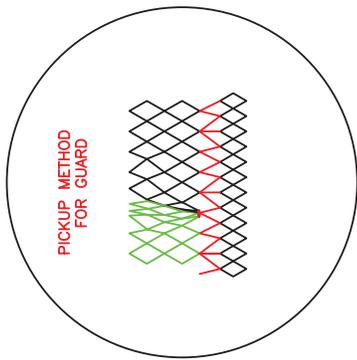
GUSSETS  
 DETAIL OF WING REINFORCEMENT  
 PE R4310tex-80mm ms



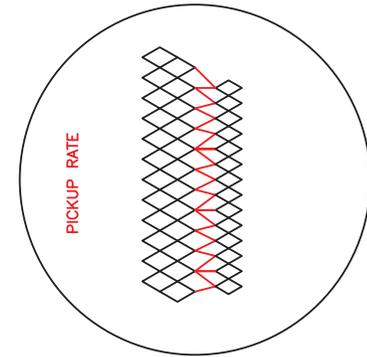
CUT POINT, TAPER THEN BALANCE  
 ALL BARS TO ENABLE 2 KNOTS TO  
 BE TAKEN UP ON FRAME ROPE



DETAIL "D"



DETAIL "C"



DETAIL "A"

REMARKS

- DOUBLE NETTING
- JOINING ROUND
- SINGLE NETTING
- FRAMELINE & RIBLINE
- UPPER PANEL
- LOWER PANEL
- DOUBLE MESH
- DIAMETER
- MESH SIZE
- MESHES DEEP
- POLYETHYLENE
- POLYPROPYLENE
- POLYAMIDE (NYLON)



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CAMPELEN 1800 SURVEY TRAWL  
 TOP WING DETAIL

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*2.1	PG 5 OF 28	PG 1 NTS

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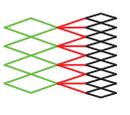


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PE BRAIDED R5263tex - 140mm MS

DETAIL "B"

PICKUP RATE

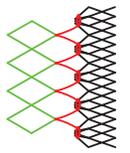


PE BRAIDED R5263tex - 140mm MS

PE BRAIDED R3650tex - 80mm MS

DETAIL "A"

PICKUP RATE

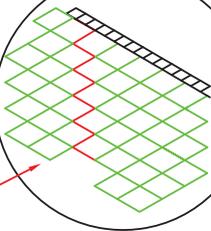


35 1/2 MD

SEE DETAIL "D"

PE BRAIDED R3650tex - 60mm MS

DETAIL "D"



19 1/2 MD

SEE DETAIL "C"

REMARKS

- DOUBLE NETTING
- JOINING ROUND
- SINGLE NETTING
- FRAMELINE & RIBLINE
- UPPER PANEL
- LOWER PANEL
- DOUBLE MESH
- DIAMETER
- MESH SIZE
- MESHES DEEP
- POLYETHYLENE
- POLYPROPYLENE
- POLYAMIDE (NYLON)



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CAMPELEN 1800 SURVEY TRAWL  
LOWER WING DETAIL

DATE DRAWN:	DWG NO.:	REV.:	SCALE:
15/07/14	CAM*2.2	PG 6 OF 28	PG 3
			NTS

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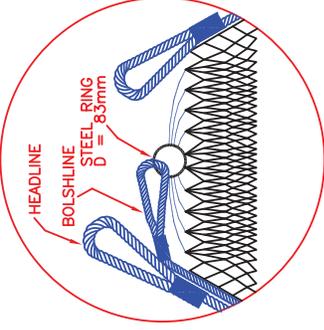
CUT POINT TAPER, THEN BALANCE ALL BARS TO ENABLE 2 KNOTS TO BE TAKEN UP ON FRAMEPIPE. ALL BARS TO BE CUT IN HALF.

SEE DETAIL "A"

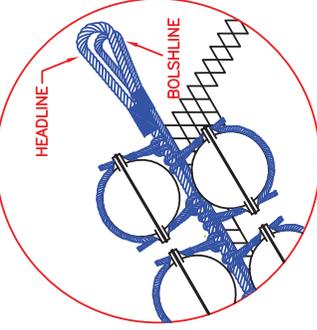
PART NO. CT16

PART #	COMPONENT	BUOYANCY	WING	QTY	
				BOSUM	EXTRA
CT11	2080 FLOAT	2.55 kg	2x39	10	2x6
TOTAL				100	

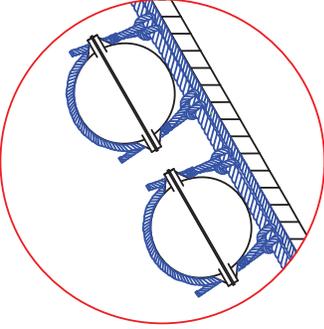
DETAIL 'E'



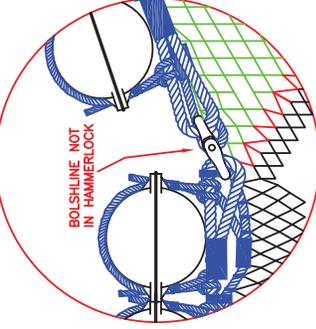
DETAIL 'D'



DETAIL 'C'



DETAIL 'B'



SEE DETAIL 'E'

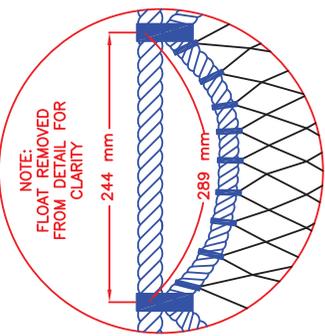
SEE DETAIL 'D'

SEE DETAIL 'C'

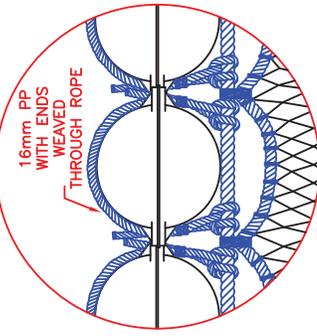
SEE DETAIL 'F'

SEE DETAIL 'A'

DETAIL 'F'



DETAIL 'A'



REMARKS

- DOUBLE NETTING
- JOINING ROUND
- SINGLE NETTING
- FRAMELINE & RIBLINE



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CAMPELEN 1800 SURVEY TRAWL  
TOP WING HANGING DETAIL

DATE DRAWN:	DWG NO.:	REV.	SCALE:
18/12/06	CAM*2.3	PG 7 OF 28	PG 2
			NTS

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SEE DETAIL "C"

5.45m

Baseline Length

SEE DETAIL "B"

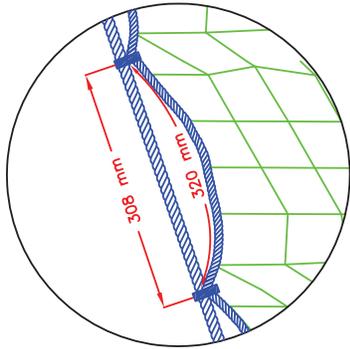
3.20m

Baseline Length

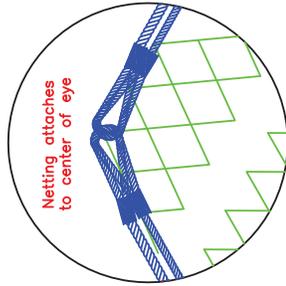
SEE DETAIL "A"

C

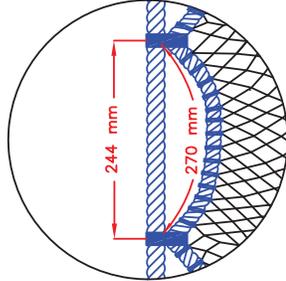
DETAIL "B"



DETAIL "C"



DETAIL "A"



REMARKS

- PANEL DEPTH DOES NOT INCLUDE JOINING ROUNDS
- PANEL WIDTHS INCLUDE DOUBLE MESHES AND SELVEDGE MESHES
- MESH SIZES ARE KNOT CENTER MEASUREMENTS

- DOUBLE NETTING
- JOINING ROUND
- SINGLE NETTING
- FRAMELINE & RIBLINE
- UPPER PANEL
- LOWER PANEL
- DOUBLE MESH DIAMETER
- MESH SIZE
- MESHES DEEP
- POLYETHYLENE
- POLYPROPYLENE
- POLYAMIDE (NYLON)



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CAMPELEN 1800 SURVEY TRAWL  
LOWER WING HANGING DETAIL

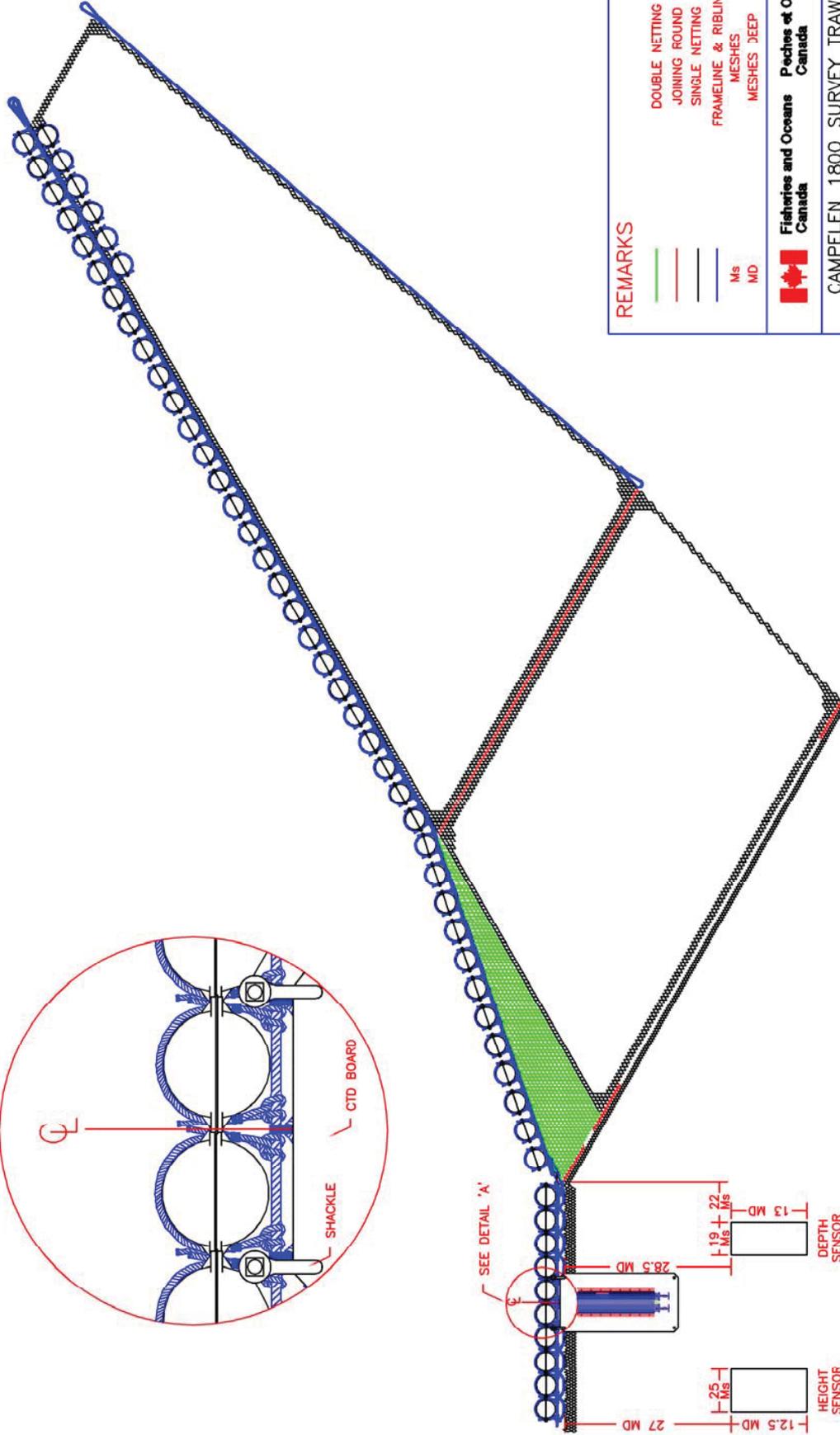
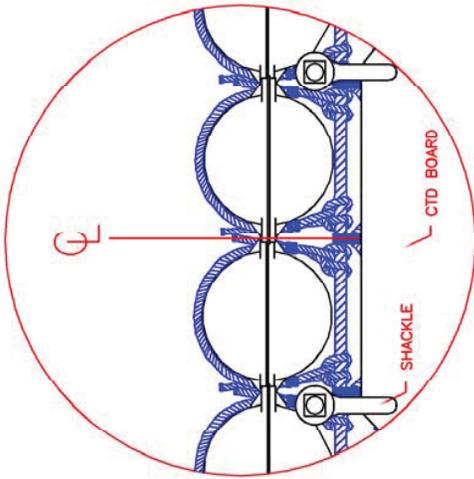
DATE DRAWN:	DWG NO.:	REV.	SCALE:
12/11/14	CAM*2.4	PG 8 OF 28	4 NTS

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DETAIL 'A'



REMARKS

- DOUBLE NETTING
- JOINING ROUND
- SINGLE NETTING
- FRAMELINE & RIBLINE
- MESHES
- MESHES DEEP

- Ms
- MD



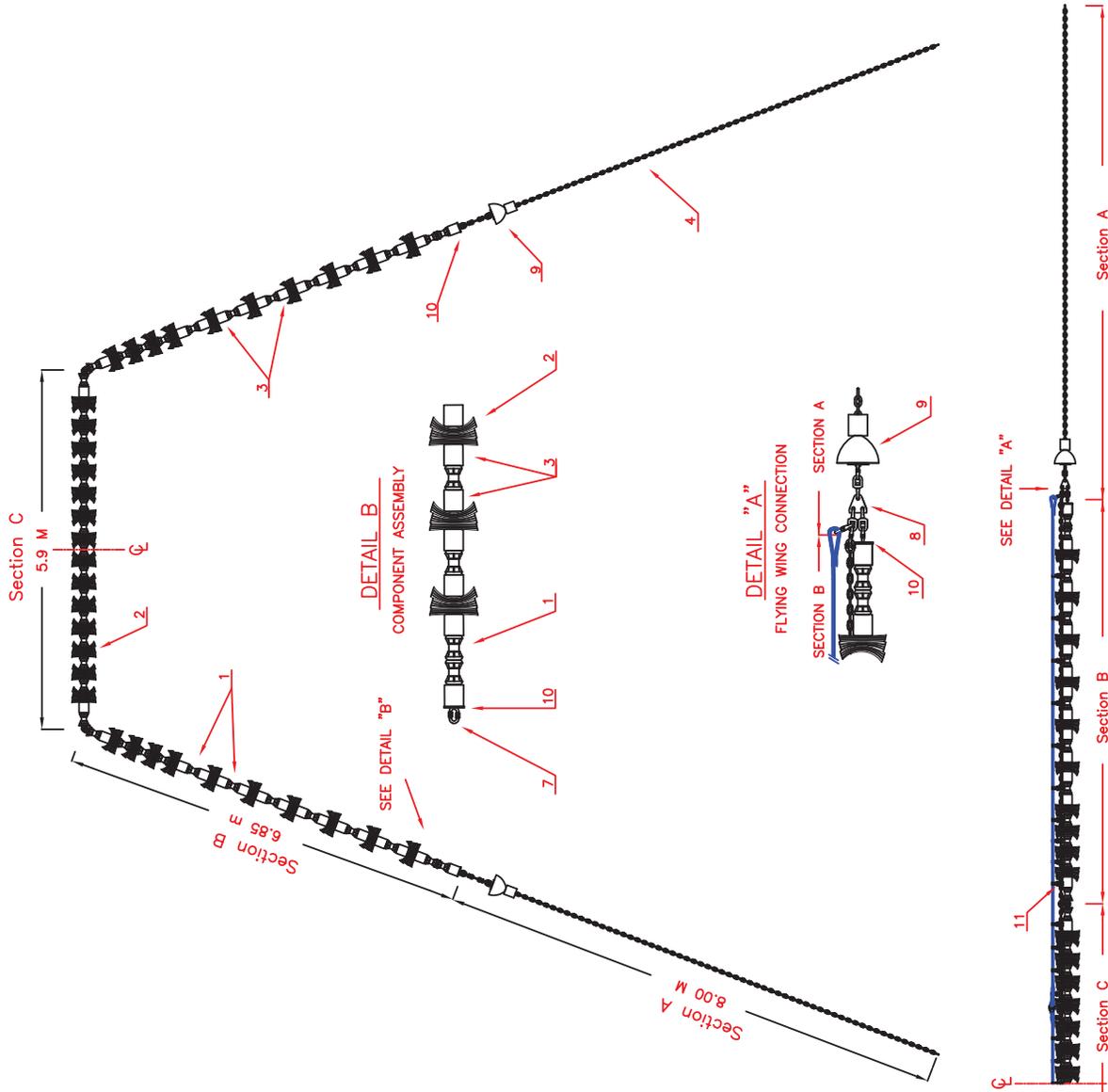
Fisheries and Oceans Canada  
Pêches et Océans Canada

CAMPELEN 1800 SURVEY TRAWL  
CTD BOARD ATTACHMENT

DATE DRAWN:	DWG NO.:	REV.	SCALE:
18/12/06	CAM*2.5 PG 9 OF 28 PG	1	NTS

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# SECTION 3 – FOOTGEAR



**DRAWING NOTES:**

- GROUND GEAR IS SYMMETRICAL ABOUT CENTERLINE.
- LENGTHS FOR SECTION B & C ARE MEASURED FROM CENTRE HAMMERLOCK TO CENTRE HAMMERLOCK.
- LENGTH OF SECTION A IS MEASURED FROM CENTRE HAMMERLOCK TO END OF CHAIN (SEE DETAIL A).

#	COMPONENT	WEIGHT (KGS) (IN SEAWATER)		NUMBERS				Page NO.	PART NO.
		UNIT	TOTAL	TOTAL	SECT. A	SECT. B	SECT. C		
1	8" (200mm) Iron Spacer	5.29	206.31	39	0	2x12	1x15	21	CT44
2	14" (356mm) Rockhopper Sets of 3 Disk	0.43	43.9	34x3	0	2x10	1x14	22	CT45
3	7" (178mm) Rubber Spacer	0.37	12.58	34	2x1	2x15	1x2	23	CT46
4	5/8" (16mm) Mid Link Chain	4.96/M	74.30	14.98	2x7.49m			11	CT12
5	5/8" (16mm) Mid Link Chain	4.96/M	66.96	13.5m		2x6.75m		11	CT13
6	5/8" (16mm) Mid Link Chain	4.96/M	28.76	5.80m		1x5.80m		11	CT14
7	Delta Plate Hammerlock	1.0	12.0	10	2x4	2x2	0	18	CT48
8	Delta Plate Hammerlock (441mm)	5.37	10.74	2	2	0	0	24	CT49
9	14" (356mm) Rubber Bunt Bobbin	4.80	9.6	2	2	0	0	25	CT50
10	6" (152mm) Washer	0.42	3.36	8	2x1	2x2	1x2	26	CT51
11	15.5" (393mm) Bobbin Chain	0.58	20.3	35	0	2x10	1x15	27	CT52
<b>TOTAL WEIGHT</b>			<b>486.81</b>						



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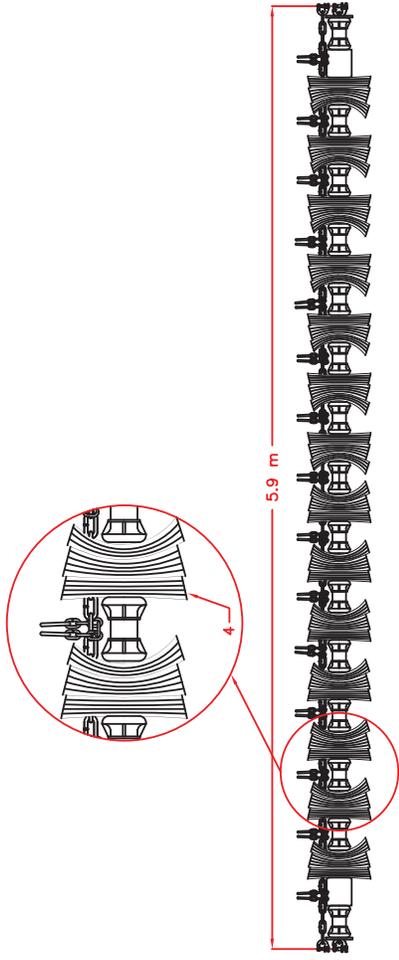
**CAMPELEN 1800 SURVEY TRAWL  
FOOTGEAR**

DATE DRAWN: 06/11/14	DWG NO.: CAMP*3.0	PG 10 OF 28 PG	REV. 3	SCALE: NTS
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INSTITUTE FOR SUSTAINABLE AQUATIC RESOURCES				

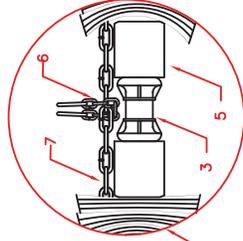
#	COMPONENT	LENGTH (m)
1	14" RUBBER BUNT BOBBIN	0.226
2	6" WASHER	0.008
3	8" IRON SPACER	0.200
4	14" ROCKHOPPER DISK	0.054
5	7" RUBBER SPACER	0.178
6	BOBBIN CHAIN	0.395
7	TRAVEL CHAIN	19.5

NOTE:

MEASUREMENTS ARE CENTRE H/LOCK  
TO CENTRE H/LOCK



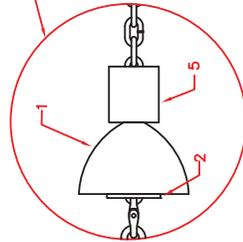
SECTION C -  
BOSUM



SECTION B -  
QUARTER



SECTION A -  
WING



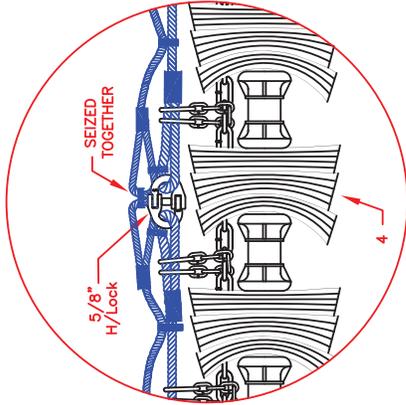
DATE DRAWN: 22/10/07	DWG NO.: CAM*3.1	PG 11 OF 28	REV. 2	SCALE: NTS
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ST. JOHN'S, NEWFOUNDLAND

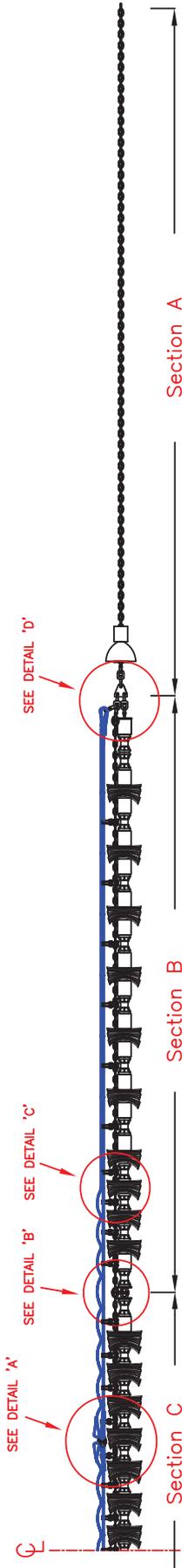
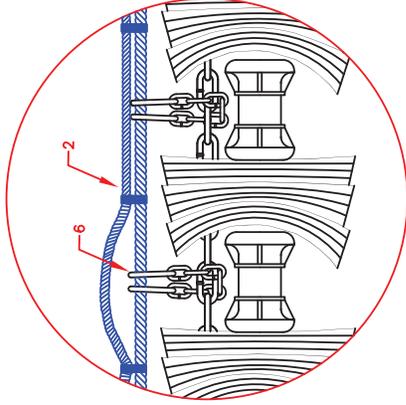


#	COMPONENT	LENGTH (m)
1	FISHINGLINE (INCL. H/LOCK)	19.5
2	L/BOLSHLINE (INCL. H/LOCK)	20.0
3	8" IRON SPACER	0.200
4	14" ROCKHOPPER DISK	0.054
5	7" RUBBER SPACER	0.178
6	BOBBIN CHAIN	0.395
7	TRAVEL CHAIN	19.5

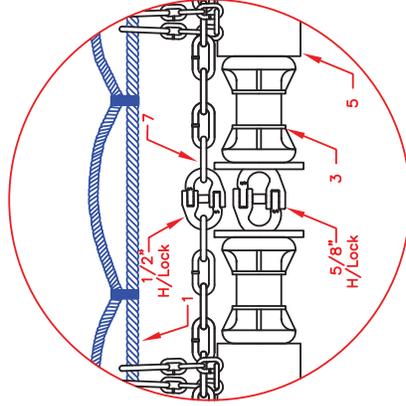
DETAIL 'A'



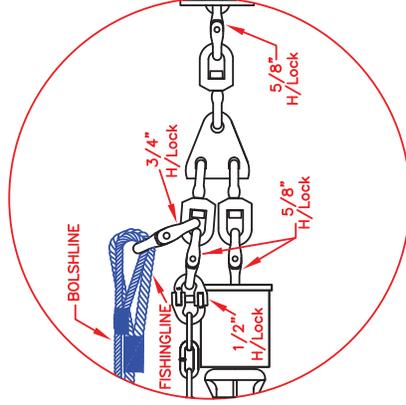
DETAIL 'C'



DETAIL 'B'



DETAIL 'D'



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Canada

CAMPELEN 1800 SURVEY TRAWL  
FOOTGEAR ATTACHMENT METHOD

DATE DRAWN:	DWG NO.:	CAM#3.2	PG 12 OF 28	PG	REV.	SCALE:
22/10/07					2	NTS

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## APPENDIX A

### Symbols & Abbreviations

#### *Symbols*

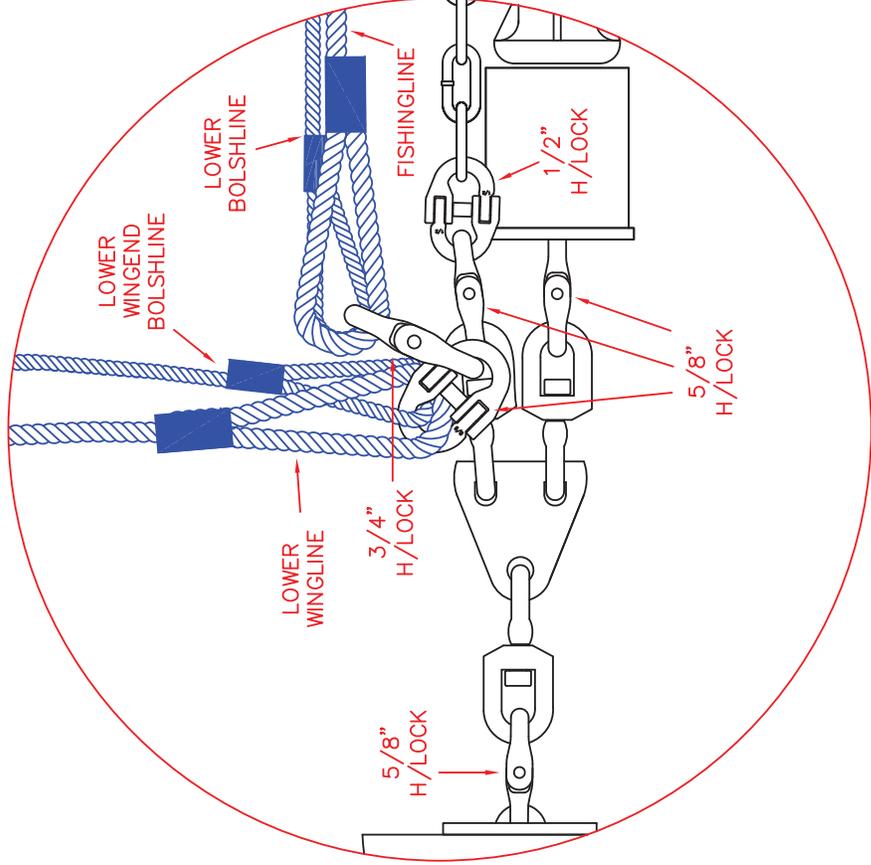
	Upper Panel
	Lower Panel
	Side Panel
	Diameter
	Center line
	Double Mesh

#### *Abbreviations*

<b>Btm.</b>	Bottom	<b>MS</b>	Mesh size
<b>Comb.</b>	Combination	<b>MD</b>	Meshes deep
<b>CTD</b>	Conductivity-Temperature-depth	<b>PE</b>	Polyethylene
<b>D</b>	Diametre	<b>Pl.</b>	Plastic
<b>Dia.</b>	Diametre	<b>PP</b>	Polypropylene
<b>Ext.</b>	Extension	<b>R</b>	Radius
<b>F/Gear</b>	Footgear	<b>Stbd.</b>	Starboard
<b>H/Lock</b>	Hammerlock	<b>Sqm.</b>	Square metre
<b>in</b>	Inches	<b>S.W.L.</b>	Safe working load
<b>KC</b>	Knot center	<b>TEL</b>	Teleost
<b>Kg</b>	Kilograms	<b>U/M</b>	Upper middle
<b>KR</b>	Kraft Rope	<b>WT</b>	Wilfred Templeman
<b>m</b>	Metres		
<b>MBS</b>	Minimum breaking strength		
<b>mm</b>	Millimetres		

## APPENDIX B

### DELTA PLATE ASSEMBLY



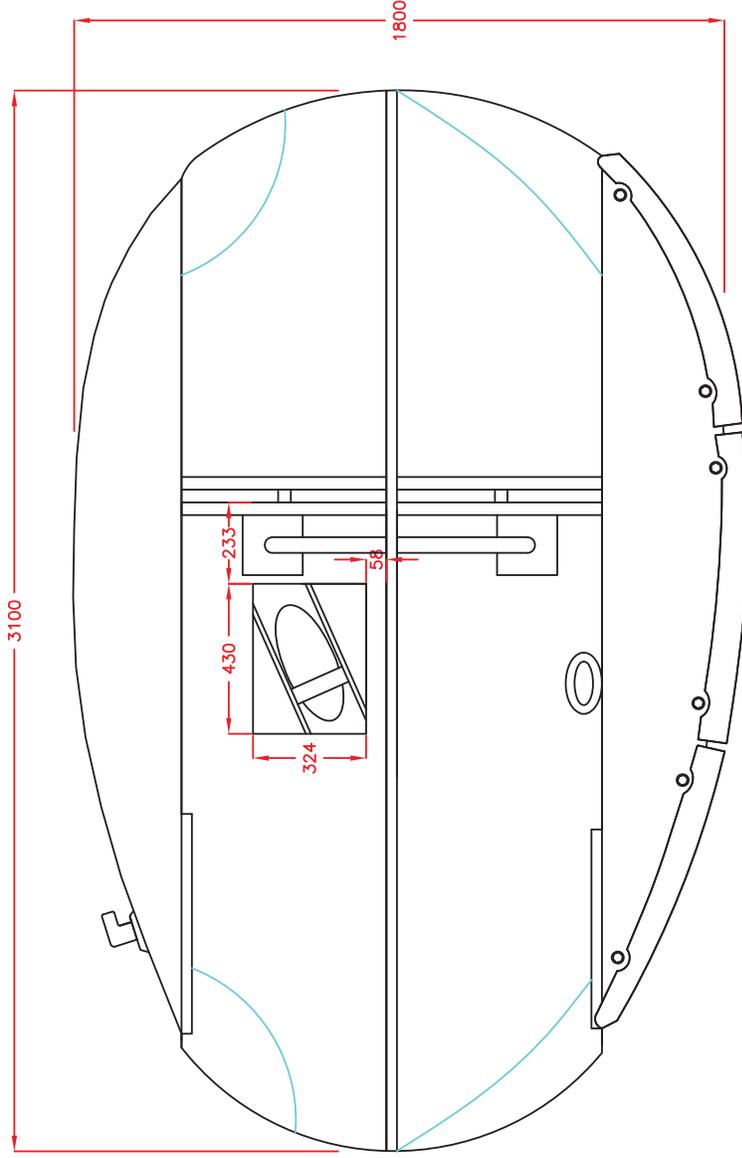
The delta plate has 3 hammerlocks, one for each swivel.

- The forward 5/8" hammerlock belonging to the delta plate is attached to the flying wing. The two aft 5/8" hammerlocks are attached to two different components of the footgear system.
- The lower 5/8" hammerlock attaches the footgear centre chain to the lower delta plate swivel;
- The upper 5/8" hammerlock attaches the upper delta plate swivel to the 1/2" travel chain hammerlock.
- A 3/4" hammerlock is used to connect the lower bolshline and fishing lines to the upper delta plate swivel.
- The lower wingline and lower wingend bolshline are attached to the 3/4" hammerlock ( not attached directly to the delta plate) by the means of a 5/8" hammerlock. Both eyes of the lower wingline and lower wingend bolshline are connected to one end of the 5/8" hammerlock while the other end is connected to the forward section of the 3/4" hammerlock.

# SECTION 4 – PARTS

SPECIFICATIONS

PART #	WEIGHT IN AIR (kg)
CT02	1400



FRONT VIEW

NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

PORT TRAWL DOOR

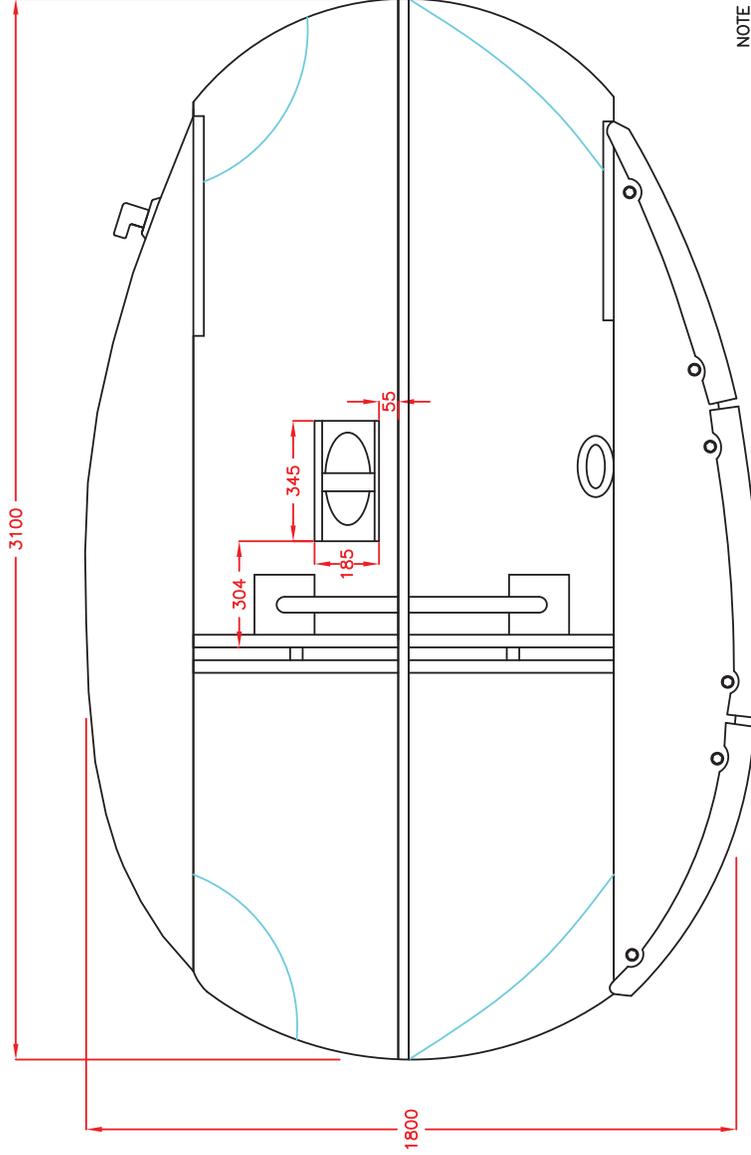
DATE DRAWN:	DWG NO.:	REV.	SCALE:
12/01/15	CAM*4.0	PG 13 OF 28	PG 1 NTS

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SPECIFICATIONS

PART #	WEIGHT IN AIR (kg)
CT02	1400



FRONT VIEW

NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

STARBOARD TRAWL DOOR

DATE DRAWN:	DWG NO.:	PG	OF	REV.	SCALE:
12/01/15	CAM*4.1	14	28	1	NTS

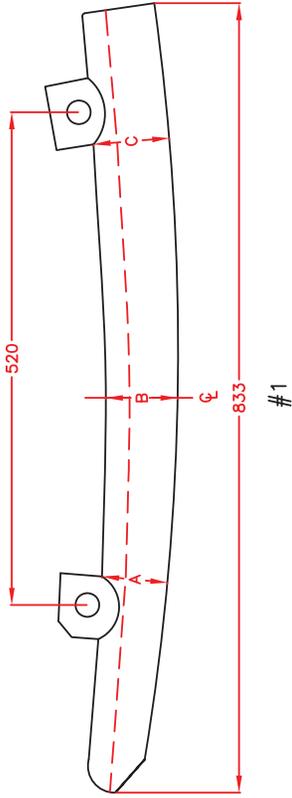
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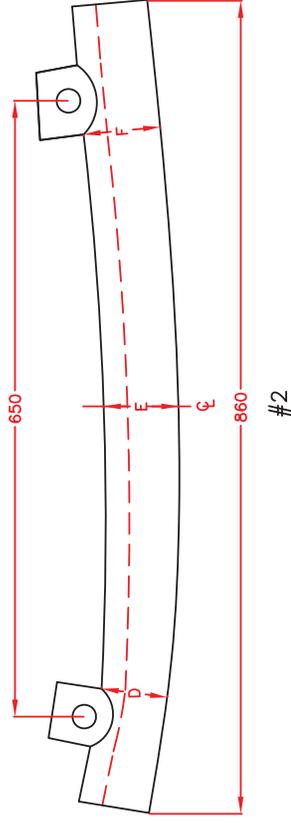
MARINE INSTITUTE  
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SPECIFICATIONS

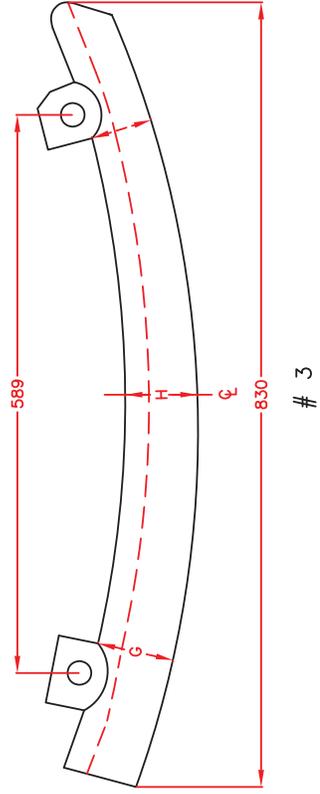
PART #	COMPONENT	WEIGHT IN AIR (kg)
28611	SHOE #1 (AFT)	54.6
28610	SHOE #2 (MIDDLE)	59.28
28609	SHOE #3 (FWD)	51.06



DEPTH  
 A = 0.070 m  
 B = 0.078 m  
 C = 0.082 m



DEPTH  
 D = 0.078 m  
 E = 0.076 m  
 F = 0.079 m



DEPTH  
 G = 0.078 m  
 H = 0.077 m  
 I = 0.066 m

NOTES: - ALL SHOES ARE 138mm WIDE.  
 - ALL DIMENSIONS ARE IN MILLIMETRES



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DOOR SHOES

DATE DRAWN:	DWG NO.:	REV.	SCALE:
18/12/06	CAM*4.2	1	NTS

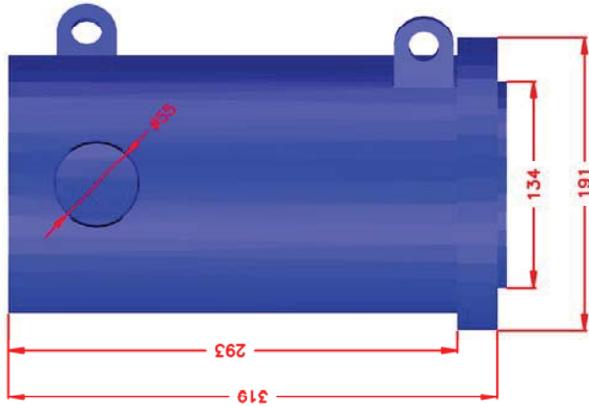
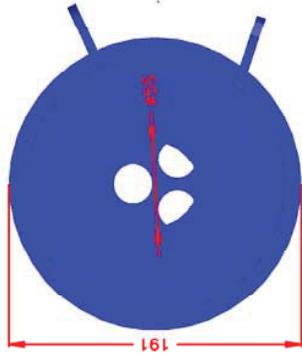
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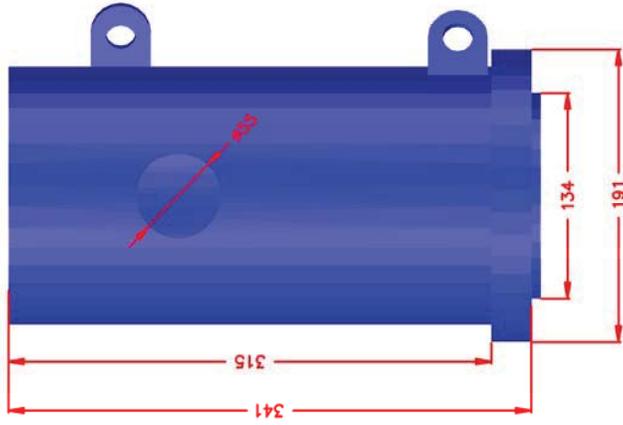
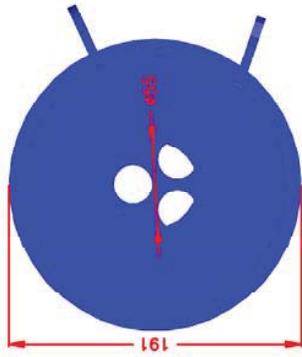
MARINE INSTITUTE  
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**SPECIFICATIONS**

MASTER		SLAVE	
WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg)	WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg)
13.664	11.907	13.408	11.684



WING CANNISTER – SLAVE



WING CANNISTER – MASTER

NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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**WING CANNISTERS**

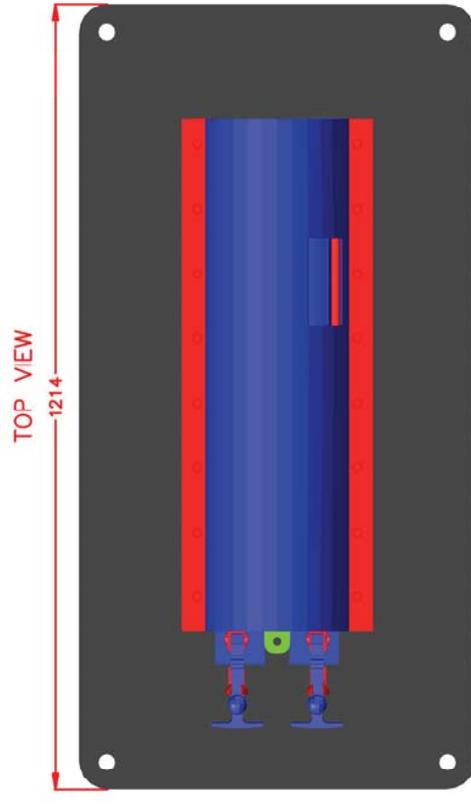
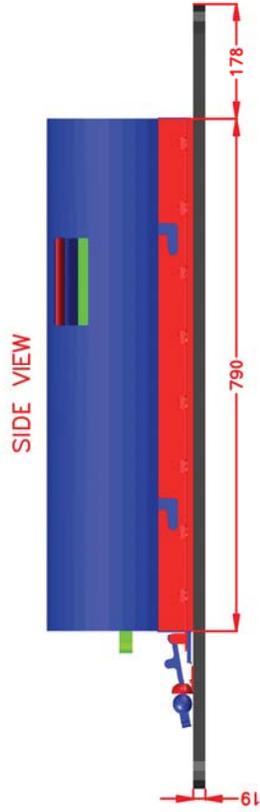
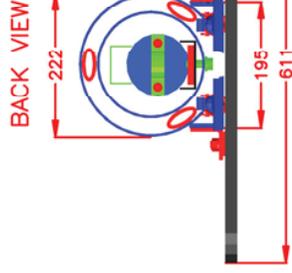
DATE DRAWN: 24/03/06	DWG NO.: CAM*4.3	PG 16 OF 23 PG	REV. SCALE: NTS
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**SPECIFICATIONS**

PART #	COMPONENT	WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg)
	BOARD W/RAILS	16.390	1.429
	PIPE SECTION	12.967	7.207
	CTD	10.265	4.848



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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**CTD BOARD**

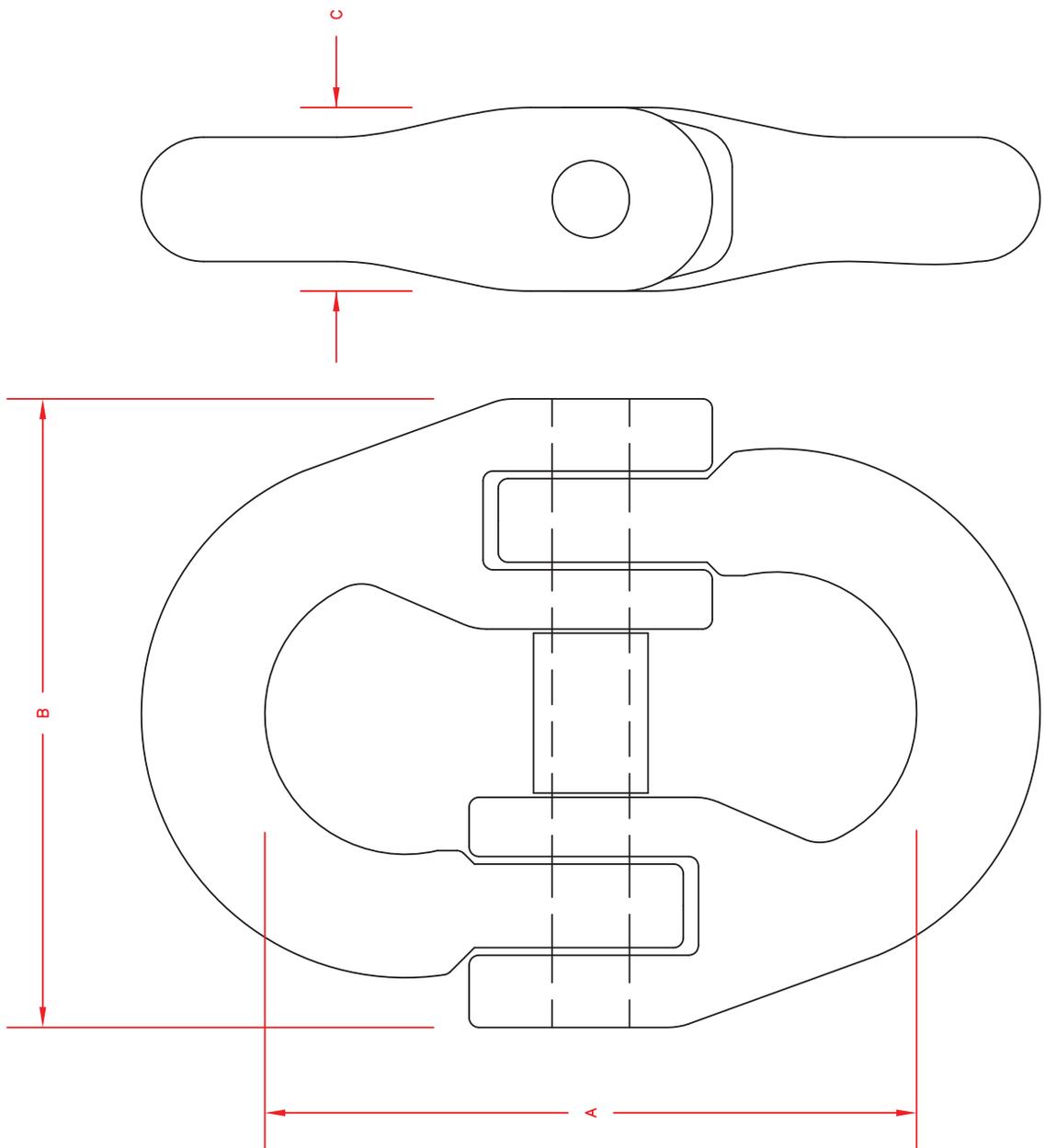
DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.4	PG 17 OF 28 PG	NTS

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# SPECIFICATIONS

NOMINAL SIZE (in.)	DIMENSIONS (mm)			WEIGHT IN AIR (kg)
	A	B	C	
1/2	86	78	23	0.61
5/8	102	95	26	1.08
3/4	122	108	30	1.74
7/8	139	132	34	2.76
1	145	158	40	4.15



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## HAMMERLOCK

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.5	PG 18 OF 28	PG NTS

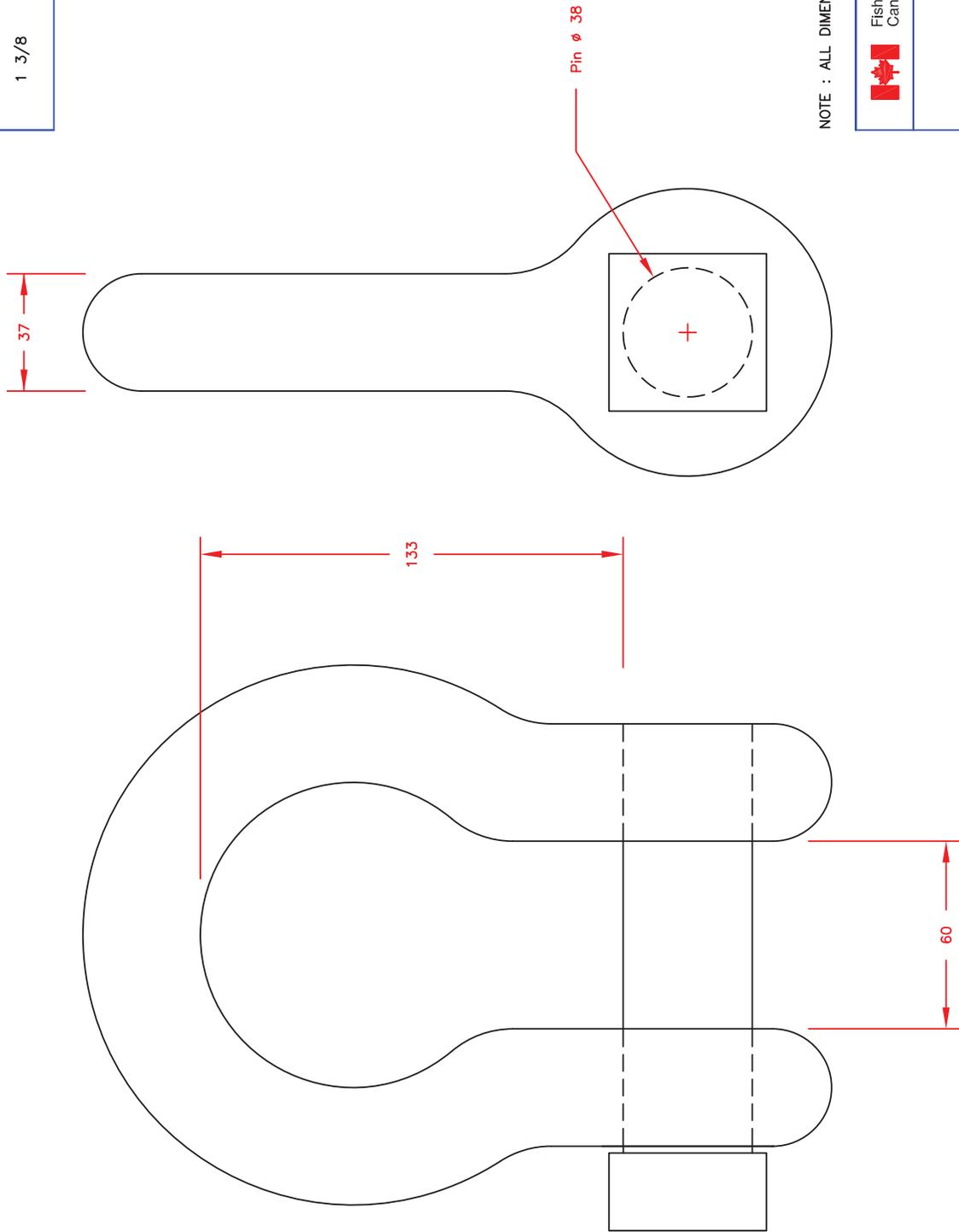
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SPECIFICATIONS

NOMINAL SIZE (in.)	WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg):
1 3/8	6.24	5.45



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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SHACKLE

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.6	PG 19 OF 28	NTS

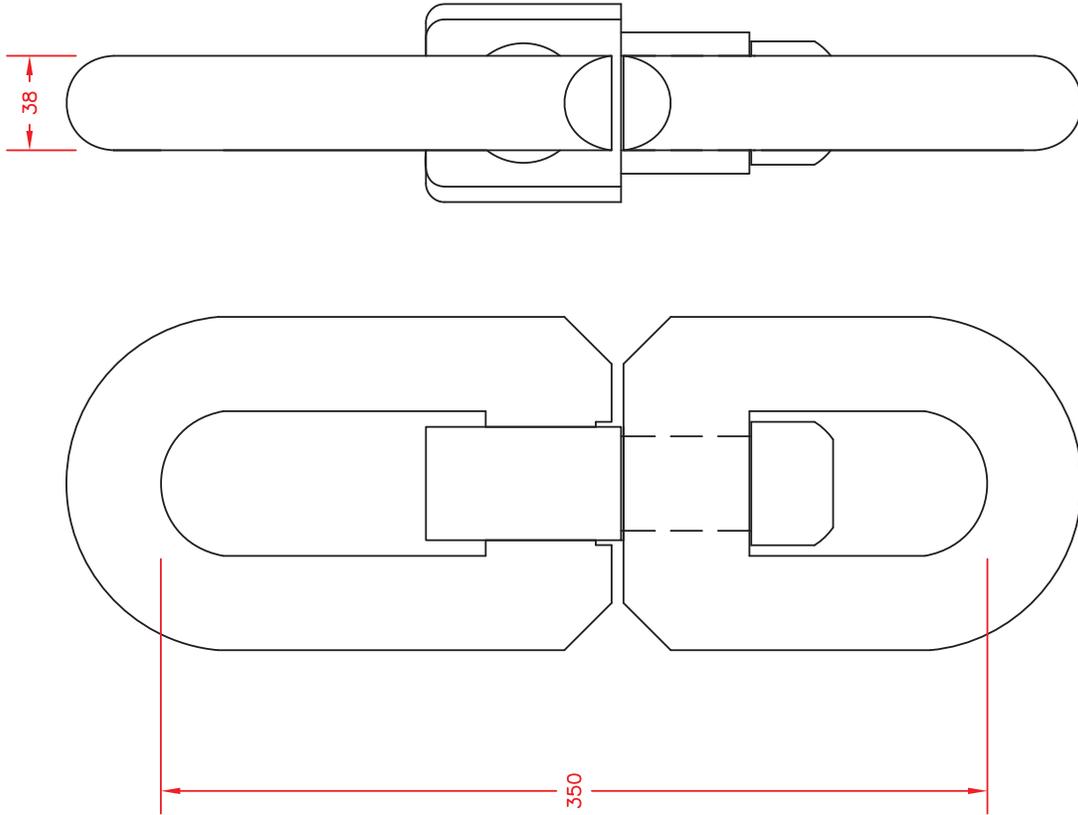
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SPECIFICATIONS

NOMINAL SIZE (in.)	WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg):
1 1/2	11.18	9.77



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

OVAL ACTION SWIVEL

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.7	PG 20 OF 28 PG	NTS

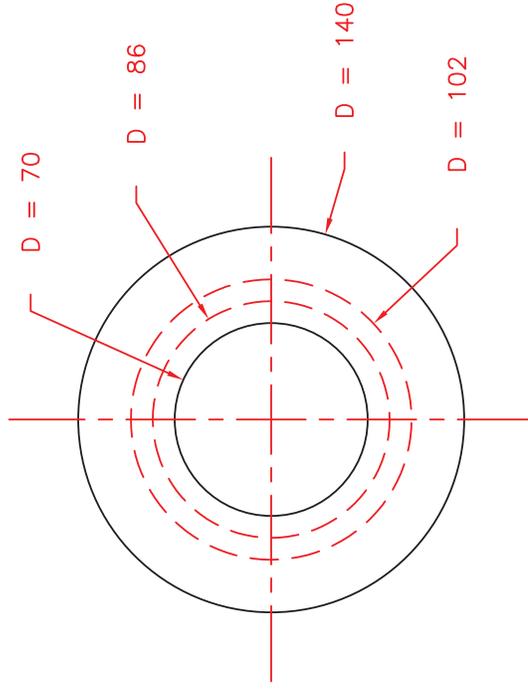
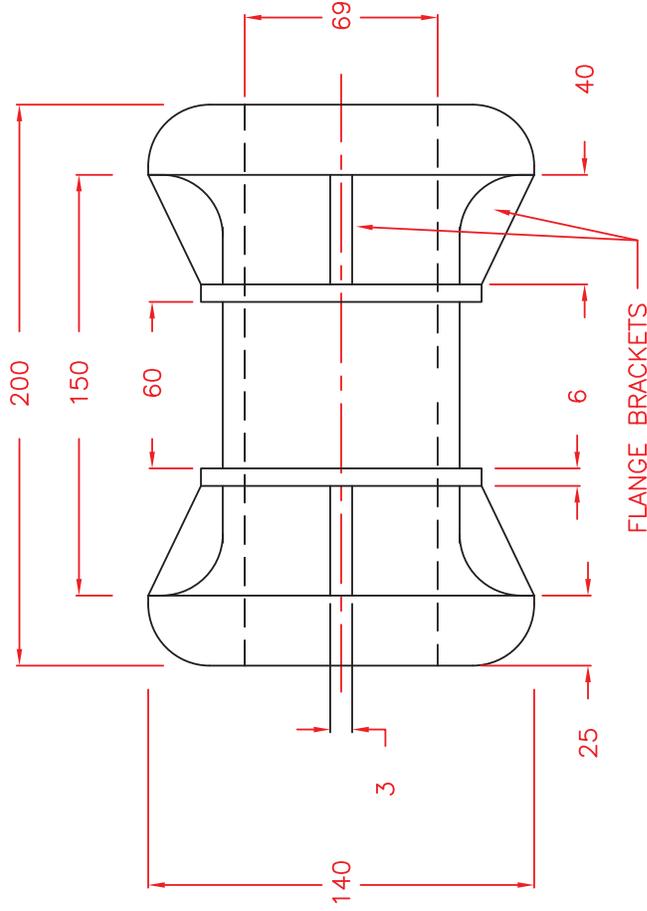
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SPECIFICATIONS

PART NO.	WEIGHT IN AIR (KG)	WEIGHT IN WATER (KG)
CT44	6.57	5.29



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

8" (200mm) IRON SPACER

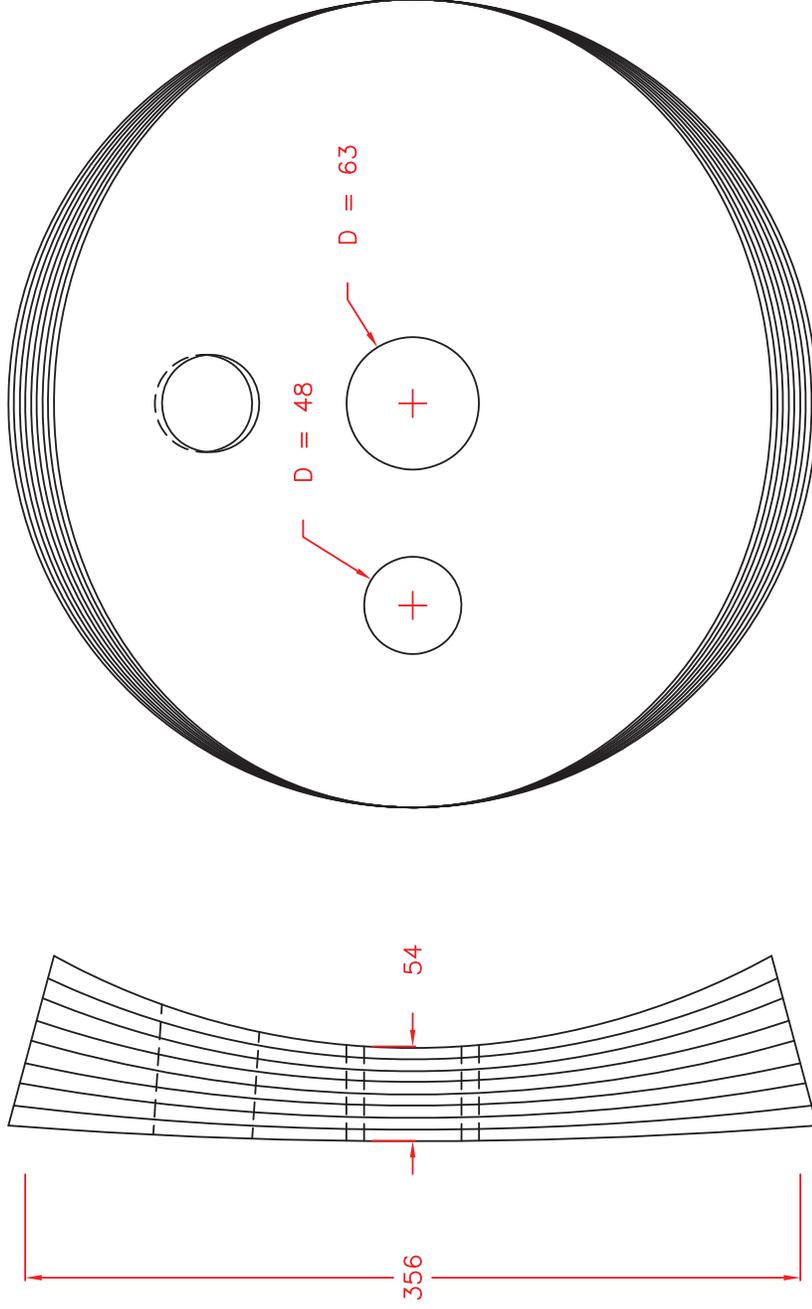
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24/03/06	CAM*4.8	PG 21 OF 28	1 NTS

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SPECIFICATIONS

PART NO.	WEIGHT IN	
	AIR (KG)	WATER (KG)
CT45	6.11	0.43



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

14" (356mm) ROCKHOPPER DISK

DATE DRAWN:	DWG NO.:	REV.	SCALE:
06/11/14	CAM*4.9	PG 22 OF 28	PG 2

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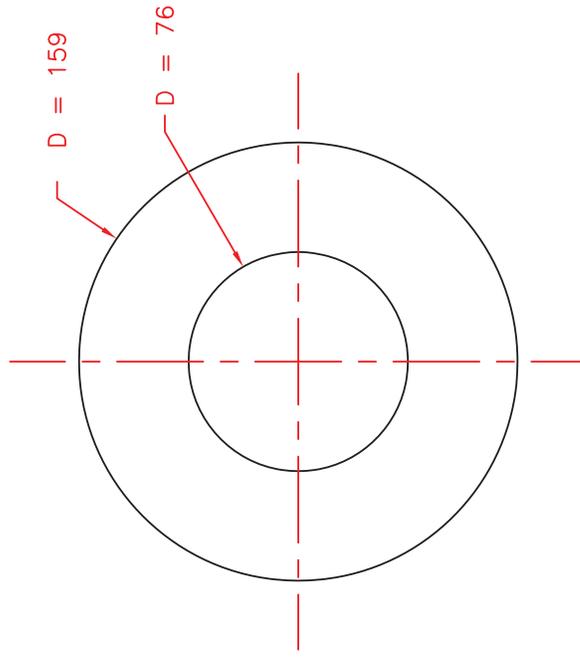
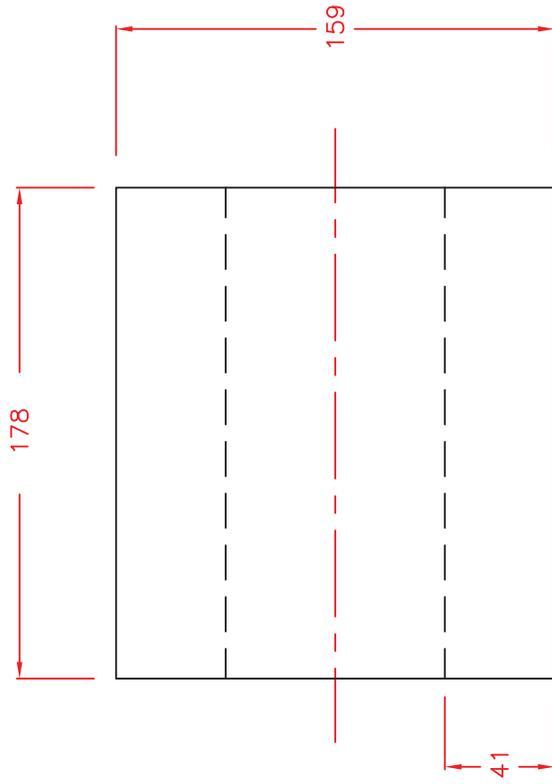


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SPECIFICATIONS

PART NO.	WEIGHT IN	
	AIR (KG)	WATER (KG)
CT46	3.08	0.37



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

7" (178mm) RUBBER SPACER

DATE DRAWN:	DWG NO.:	PG	OF	REV.	SCALE:
06/11/14	CAM*4.10	23	28	2	NTS

DRAWN BY:

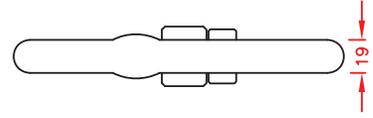
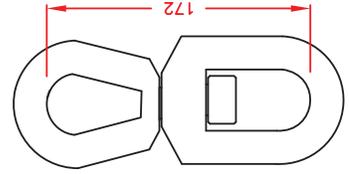
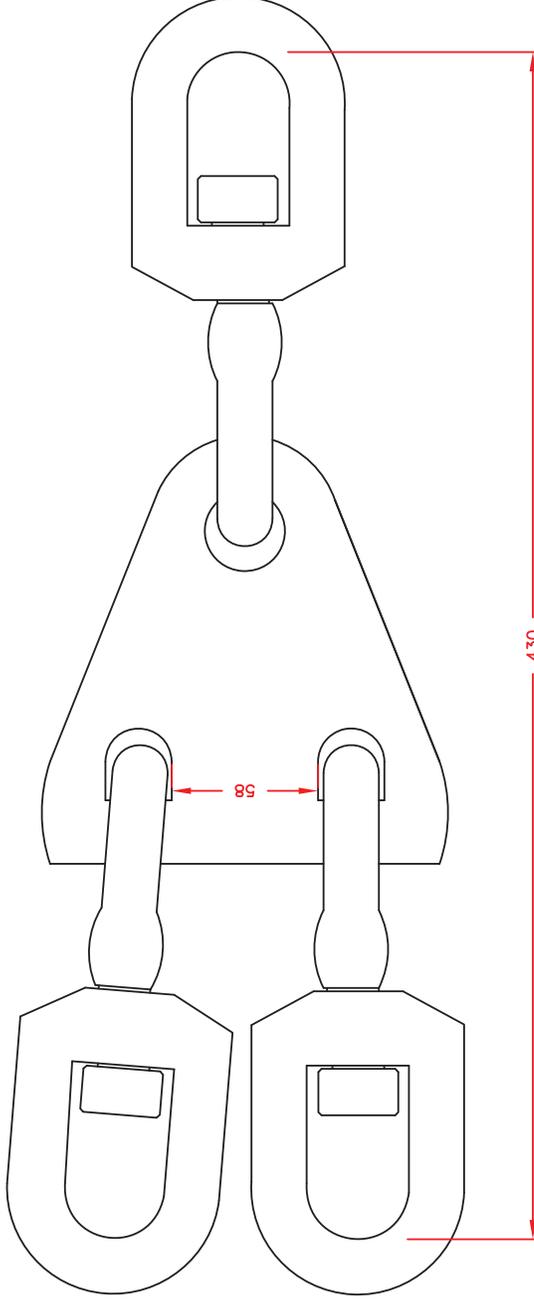
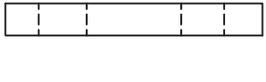
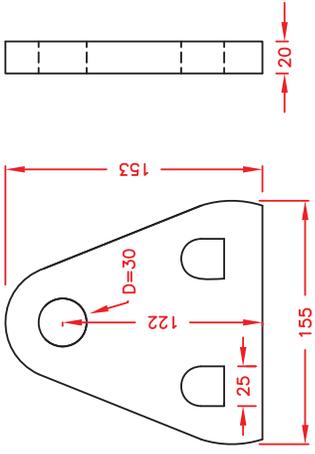
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SPECIFICATIONS

PART #	WEIGHT IN AIR (kg)	WEIGHT IN WATER (kg):
CT49	6.17	5.39



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

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Canada

DELTA PLATE

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.11	PG 24 OF 28	PG 1 NTS

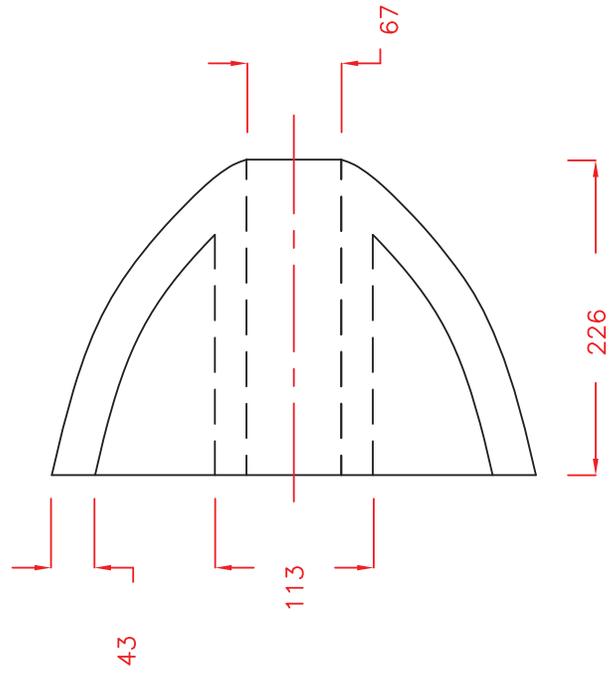
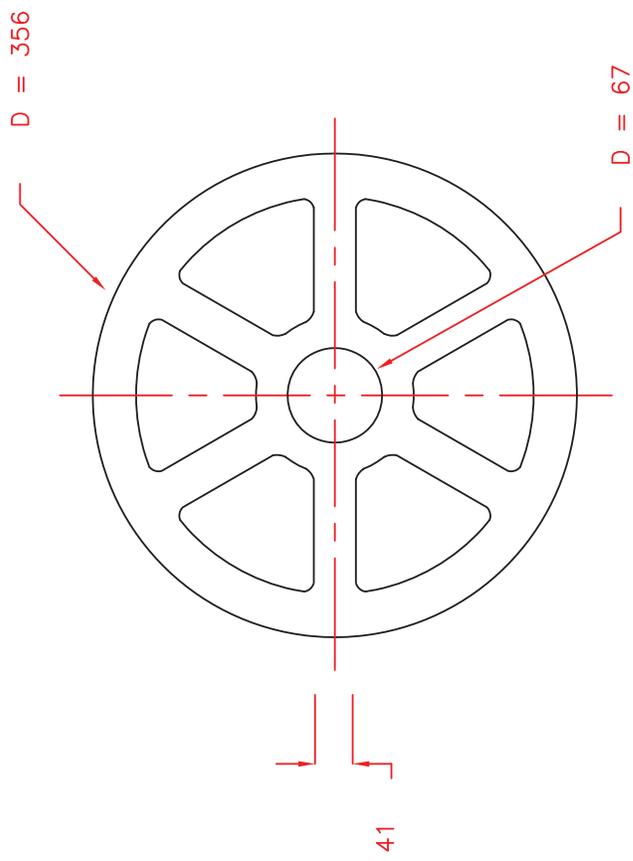
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SPECIFICATIONS

PART NO.	WEIGHT IN	
	AIR (KG)	WATER (KG)
CT50	17.35	4.80



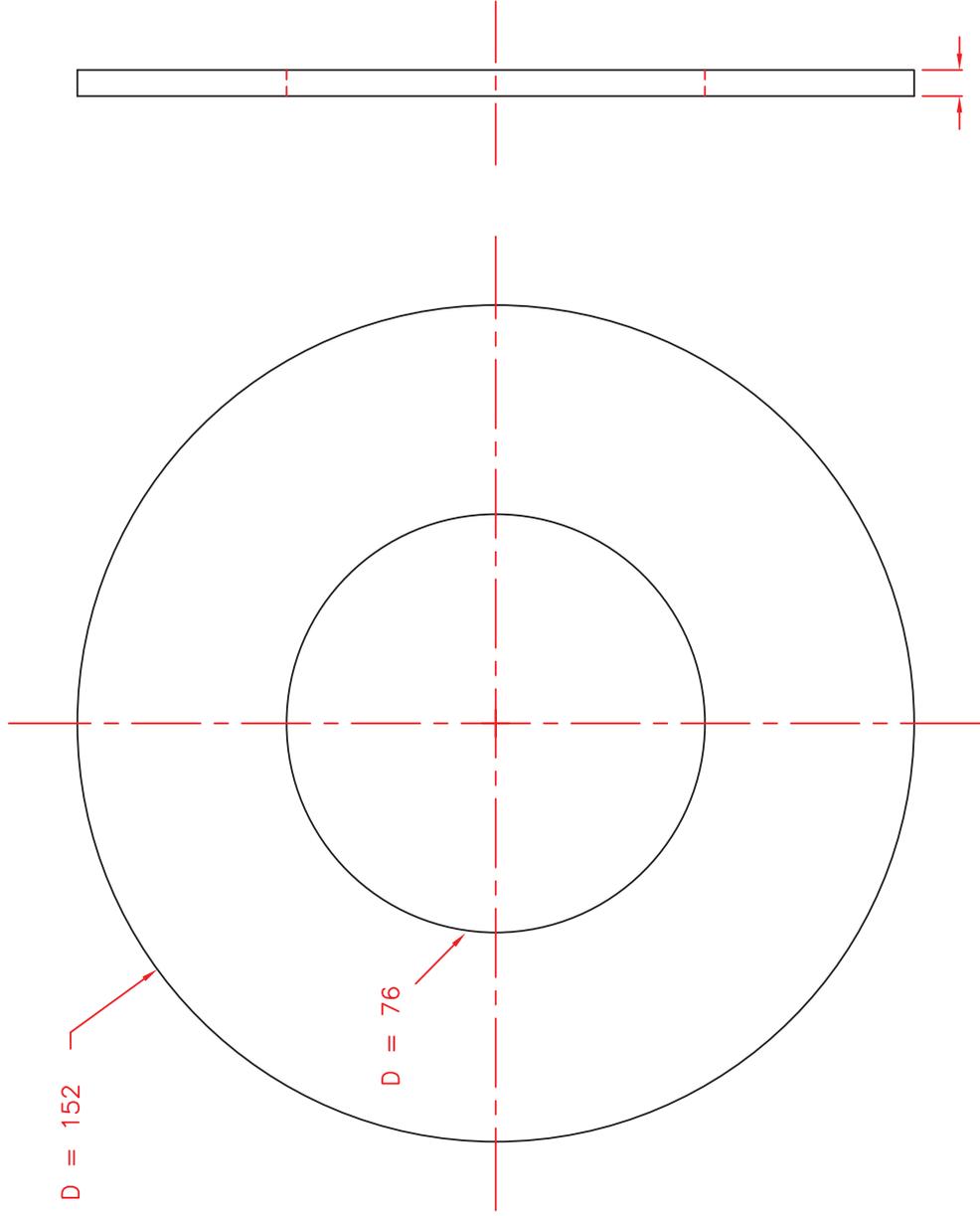
NOTE : ALL DIMENSIONS ARE IN MILLIMETRES

 Fisheries and Oceans Canada	Pêches et Océans Canada	14" (356mm) RUBBER BUNT BOBBIN	
		DATE DRAWN: 06/11/14	DWG NO.: CAM*4.12
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SPECIFICATIONS

PART NO.	WEIGHT IN	
	AIR (KG)	WATER (KG)
CT51	0.57	0.42



NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Canada

Pêches et Océans  
Canada

6" (152mm) WASHER

DATE DRAWN:	DWG NO.:	REV.	SCALE:
24/03/06	CAM*4.13	PG 26 OF 28	PG 1 NTS

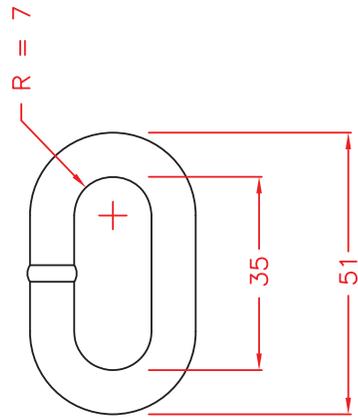
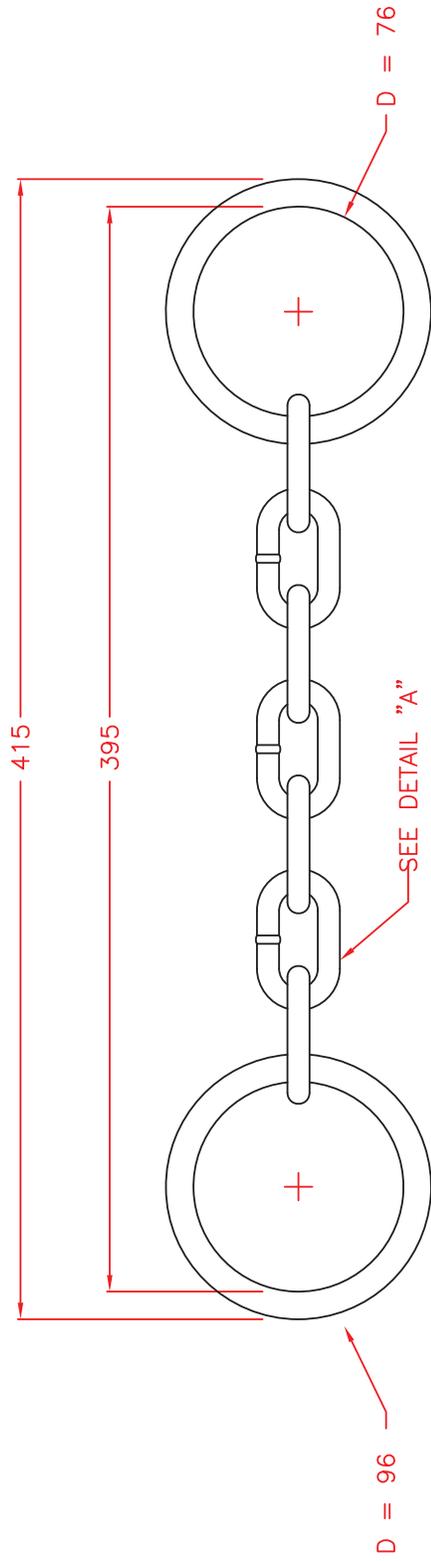
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SPECIFICATIONS

PART NO.	WEIGHT IN AIR (KG)	WEIGHT IN WATER (KG)
CT52	0.64	0.58



DETAIL A

NOTE : ALL DIMENSIONS ARE IN MILLIMETRES



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Pêches et Océans  
Canada

BOBBIN CHAIN

DATE DRAWN:	DWG NO.:	PG	OF	PG	REV.	SCALE:
24/03/06	CAM*4.14	27	OF	28	1	NTS

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ORIGINAL DRAWING #	REVISION #	ORIGINALLY DRAWN	NEW DRAWING #	DATE REVISED	AUTHORIZED BY	REVISION DESCRIPTION	ORIGINAL DRAWING #	REVISION #	ORIGINALLY DRAWN	NEW DRAWING #	DATE REVISED	AUTHORIZED BY	REVISION DESCRIPTION	
CAMP*1.0	1	02/08/93	CAMP*1.0	24/03/06	S.J. Walsh	Slight formatting changes, additional connection details added, scanner sensors added.	CAMP*4.2	1	24/03/06	CAMP*4.2	18/12/06	S.J. Walsh	Depth measurements added.	
CAMP*1.0	2	24/03/06	CAMP*1.0	18/12/06	S.J. Walsh	Lower breathe line eye splice moved to other half of hammerlock.	CAMP*4.9	2	24/03/06	CAMP*4.9	06/11/14	S.J. Walsh	Correction to the specified seawater weight.	
CAMP*1.0	3	18/12/06	CAMP*1.0	22/10/07	S.J. Walsh	Additional text added to Detail "G", Joining round added to separate side panel #3 and #4, note added.	CAMP*4.10	2	24/03/06	CAMP*4.10	06/11/14	S.J. Walsh	Correction to the specified seawater weight.	
CAMP*1.0	4	22/10/07	CAMP*1.0	12/01/15	S.J. Walsh	Text edit	CAMP*4.12	2	24/03/06	CAMP*4.12	06/11/14	S.J. Walsh	Correction to the specified seawater weight.	
CAMP*1.1	1	24/03/06	CAMP*1.1	22/10/07	S.J. Walsh	Door leg ext. listed as #4A and 4B, h/lock at bridle end of door leg ext. changed from a 3/4" to a 5/8". Side view of attachment bracket added.								
CAMP*1.1	2	22/10/07	CAMP*1.1	12/01/15	S.J. Walsh	Text edit								
CAMP*1.2	1	24/03/06	CAMP*1.1	22/10/07	S.J. Walsh	Door leg ext. listed as #4A and 4B, Door shackle shown as pin through door								
CAMP*1.2	2	22/10/07	CAMP*1.2	12/01/15	S.J. Walsh	Text edit								
CAMP*2.0	1	02/08/93	CAMP*2.0	24/03/06	S.J. Walsh	Slight formatting changes, additional remark added, headline shown in 3 pieces.								
CAMP*2.0	2	24/03/06	CAMP*2.0	18/12/06	S.J. Walsh	Stretched length measurements added, side panel (part #15) divided into two pieces now part 15a and 15b.								
CAMP*2.0	3	18/12/06	CAMP*2.0	22/10/07	S.J. Walsh	PP ropes changed to KR, length of ribline #3 & 4 modified, item #25 is now 25g and 25b, attachment point of cover and liner indicated, extra remarks and notes.								
CAMP*2.0	4	22/10/07	CAMP*2.0	15/07/14	S.J. Walsh	G23 depth (N-Direction) changed from 42.5 to 48.5 meshes deep.								
CAMP*2.1	1	02/08/93	CAMP*2.1	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*2.2	1	02/08/93	CAMP*2.2	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*2.2	2	24/03/06	CAMP*2.2	18/12/06	S.J. Walsh	Extra text added for tapering to detail "D".								
CAMP*2.2	3	18/12/06	CAMP*2.2	15/07/14	S.J. Walsh	G23 (60mm) -changed from 42.5 to 48.5 meshes deep. Dimension lines drawn in to illustrate depth of guard netting for both the 114B and 4B tapers								
CAMP*2.3	1	02/08/93	CAMP*2.3	24/03/06	S.J. Walsh	Slight formatting changes, float attachment detailed, h/line connection details added.								
CAMP*2.3	2	24/03/06	CAMP*2.3	18/12/06	S.J. Walsh	Floats now attached to headline only, float attachment rope changed from twisted nylon to polypropylene.								
CAMP*2.4	1	02/08/93	CAMP*2.4	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*2.4	2	24/03/06	CAMP*2.4	22/10/07	S.J. Walsh	Stop attachment more detailed.								
CAMP*2.4	3	22/10/07	CAMP*2.4	15/07/14	S.J. Walsh	Added dimensionlines with values to clearly illustrate bolsline lengths for both tapers on the guard netting. Guard netting is now attached to the center of the eye. Added new detail drawing to represent this modification								
CAMP*2.4	4	15/07/14	CAMP*2.4	12/11/14	S.J. Walsh	Corrected Bolsline length in "Detail B".								
CAMP*2.5	1	24/03/06	CAMP*2.5	18/12/06	S.J. Walsh	Floats now attached to headline only.								
CAMP*3.0	1	02/08/93	CAMP*3.0	24/03/06	S.J. Walsh	Slight formatting changes, delta plate specification adjusted due to supplier modifications, travel wire redrawn to indicate chain, fishingline connection added to "Detail A".								
CAMP*3.0	2	24/03/06	CAMP*3.0	18/12/06	S.J. Walsh	Two Toggles added in bosum.								
CAMP*3.0	3	18/12/06	CAMP*3.0	06/11/14	S.J. Walsh	Correction to the specified weight and total weight of footgear components								
CAMP*3.1	1	02/08/93	CAMP*3.1	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*3.1	2	24/03/06	CAMP*3.1	18/12/06	S.J. Walsh	Two Toggles added in bosum.								
CAMP*3.1	2	18/12/06	CAMP*3.1	22/10/07	S.J. Walsh	Note added.								
CAMP*3.2	1	02/08/93	CAMP*3.2	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*3.2	2	24/03/06	CAMP*3.2	18/12/06	S.J. Walsh	Toggle added in bosum.								
CAMP*3.2	1	02/08/93	CAMP*3.2	22/10/07	S.J. Walsh	Slight formatting changes.								
CAMP*3.3	1	02/08/93	CAMP*3.3	24/03/06	S.J. Walsh	Slight formatting changes, port modified by manufacturer, specifications updated.								
CAMP*3.4	1	02/08/93	CAMP*3.4	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*3.5	1	02/08/93	CAMP*3.5	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*3.6	1	02/08/93	CAMP*3.6	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*3.7	1	02/08/93	CAMP*3.7	24/03/06	S.J. Walsh	Slight formatting changes.								
CAMP*4.0	1	24/03/06	CAMP*4.0	12/01/15	S.J. Walsh	Dimensions edited.								
CAMP*4.1	1	24/03/06	CAMP*4.1	12/01/15	S.J. Walsh	Dimensions edited.								

ADDITIONAL NOTES:

THE ORIGINAL DRAWING SET WAS UPGRADED IN MARCH 2006. THE ORIGINAL SET CONTAINED 14 DRAWINGS. THE MARCH 2006 UPGRADE CONSISTED OF 13 DETAILED DRAWINGS AND A REVISIONS TABLE, GIVING A TOTAL OF 28 PAGES. THESE ADDITIONAL DRAWINGS AND THE MODIFICATIONS WERE APPROVED BY STEVE WALSH AND WILLIAM HICKEY, DFO.



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LIST OF REVISIONS

DATE DRAWN:	DWG NO.:	REV.	SCALE:
12/01/15	CAMP*5.0	PG 28 OF 28	PG 5 NTS

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