



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

B3J 1T3

Nova Scotia

Bid Fax: (902) 496-5016

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

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

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

B3J 3C9

Nova Scot

Title - Sujet Portable Fish Weir	
Solicitation No. - N° de l'invitation 5P126-170152/A	Date 2017-09-20
Client Reference No. - N° de référence du client 5P126-17-0152	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-217-10200	
File No. - N° de dossier HAL-7-79046 (217)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-10-06	Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mosher, Gina	Buyer Id - Id de l'acheteur hal217
Telephone No. - N° de téléphone (902) 403-7836 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PARKS CANADA SEE HEREIN INGONISH BEACH NOVA SCOTIA B0C1L0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contact clauses.

1.2 Debriefings

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

1.3 Trade Agreements

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

1.4 Canadian Content

The requirement is subject to a preference for Canadian goods and/or services.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

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

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 90 days

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (two (2) hard copies)
Section II: Financial Bid (one (1) hard copy)
Section III: Certifications (one (1) hard copy)

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

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

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

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

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

Section I: Technical Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Bidders must submit the following to prove they meet the mandatory criteria:

Bidders must submit specifications and/or descriptive literature proving that they meet the Statement of Requirement at Annex "A" of this document, in its entirety.

Bidders are requested to provide cross-reference to identify the page(s) in their technical proposals where they meet all of the mandatory specifications at Annex "A" .

Documentation may consist of a manufacturer's name, product part number and catalogue description including any specification information.

It is incumbent upon the bidder to submit a complete proposal showing that their product will meet or exceed the technical description described in its solicitation at Annex A. Failure to submit sufficient information to allow for a full evaluation will result in the proposal being declared non-responsive.

4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria at Annex "A" in its entirety, to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

Bidders shall complete Annex “C” herein.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

5.2.3 Additional Certifications Precedent to Contract Award

5.2.3.1 Canadian Content Certification

This procurement is limited to Canadian goods.

The Bidder certifies that:

() the good(s) offered are Canadian goods as defined in paragraph 1 of clause [A3050T](#).

5.2.3.1.1 SACC Manual clause [A3050T](#) (2014-11-27) Canadian Content Definition

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide for the fabrication of components for Resistance-Board Fish Weir DDP 61 Cheticamp Campground Road, Cheticamp, NS in accordance with the Requirement at Annex "A".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before thirty (30) days after award of Contract.

Please provide delivery date offered: _____

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Gina Mosher
Supply Specialist

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Buyer ID - Id de l'acheteur
HAL217
CCC No./N° CCC - FMS No./N° VME

Public Services and Procurement Canada
Acquisitions Branch
Atlantic Region
1713 Bedford Row
Halifax, Nova Scotia
B3J 3C9

Telephone: 902-403-7836
Facsimile: 902-496-5016
E-mail address: gina.mosher@pwgsc-tpsgc.gc.ca

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

6.5.2 Project Authority

The Project Authority for the Contract is (To be provided upon contract award):

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

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

6.5.3 Contractor's Representative (To be completed by bidders)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

6.6.1.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

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 Basis of Payment at Annex "B" of this*

document for a total cost of \$_____ (to be provided upon contract award). 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.

6.6.2 Limitation of Price

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

6.6.3 Single Payment

SACC Manual Clause H1000C (2008-05-12) Single Payment

6.7 Invoicing Instructions

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

2. Invoices must be distributed as follows:

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

b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Statement of Requirement
- (d) Annex B, Basis of Payment
- (e) Annex C, Information for Code of Conduct Certification;
- (f) the Contractor's bid dated _____

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6.11 **SACC Manual Clauses**

A9068C	(2010-01-11)	Government Site Regulations
B7500C	(2006-06-16)	Excess Goods
D0018C	(2007-11-30)	Delivery and Unloading

6.12 **Insurance**

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

ANNEX "A" REQUIREMENT

Project Title: Fabrication of Components for Resistance-Board Fish Weir for Cheticamp River

Background

Cape Breton Highlands National Park is seeking the fabrication of components for a resistance board fish weir for the Cheticamp River.

The general concept of the weir and how it works is described in the attached document by John Tobin (Construction and performance of resistance board weir for counting migrating adult salmon in rivers.)

Deliverables

See detailed drawings of **Resistance-Board Fish Weir Cheticamp River**.

Components to be fabricated include:

1. 53 Resistance board weir panels – as per drawings on sheets 1 to 3.
Each panel 3 ft. (918 mm) wide to span 159 feet of river channel.
2. 16 Substrate Rails – as per drawings on sheets 4 and 5.
Each rail 10 ft. (3048 mm) long to span 160 feet of river bottom.
3. 4 Floating bulkheads – as per drawings on sheet 6
4. 2 Fish traps – as per drawings on sheets 7 and 8.

Delivery Schedule

All components to be delivered thirty (30) days after date of award.

Supporting Documents

1. Tobin - 1994 - Resistance Weir Construction.pdf
2. Resistance Board Fish Weir Material List.xlsx

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ANNEX "B" BASIS OF PAYMENT

Bidders must bid on every line item in order to be considered for contract award.

a

Bidders must submit firm prices in Canadian dollars, customs duties included and applicable taxes extra. Delivery is Delivered Duty Paid (DDP) Incoterms 2000. The contractor is responsible for all delivery charges, administration costs and risks of transport and customs clearance, including payment of customs duties and taxes to destination.

Item	Description	Qty	U of I	Firm Unit Price	Extended Price
1.	Fabrication of Components for Resistance-Board Fish Weir for Cheticamp River in accordance with the Requirement at Annex "A"	1	Each	\$ _____	\$ _____
2.	Delivery DDP Incoterms 2000 61 Cheticamp Campground Road, Cheticamp, NS	1	Lot	\$ _____	\$ _____
				Total Firm Cost of items 1. and 2., HST/GST Extra	\$ _____

ANNEX “C” INFORMATION FOR CODE OF CONDUCT CERTIFICATION

[SHOULD BE COMPLETED BY BIDDER WITH BID SUBMISSION]

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

2. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

3. For a Joint Venture - the names of all current members of the Joint venture;

4. For an individual - the full name of the person;

PORTABLE RESISTANCE BOARD FISH WEIR

- [illegible]

WEIR PANEL NOTES:

5. 53 WEIR PANELS ARE REQUIRED FOR CONSTRUCTION OF RESISTANCE BOARD FISH WEIR.
6. CONSTRUCTED PICKETS ARE TO BE 6096MM LONG C/W COMPATIBLE PVC END CAPS AT EITHER END. PICKETS MAY BE CONSTRUCTED OUT OF TWO 3048MM JOINED LENGTHS.
7. ONE PVC CONNECTING PICKET WITHOUT BASE/END CAPS CONNECTED IS TO BE SUPPLIED WITH EACH WEIR PANEL.



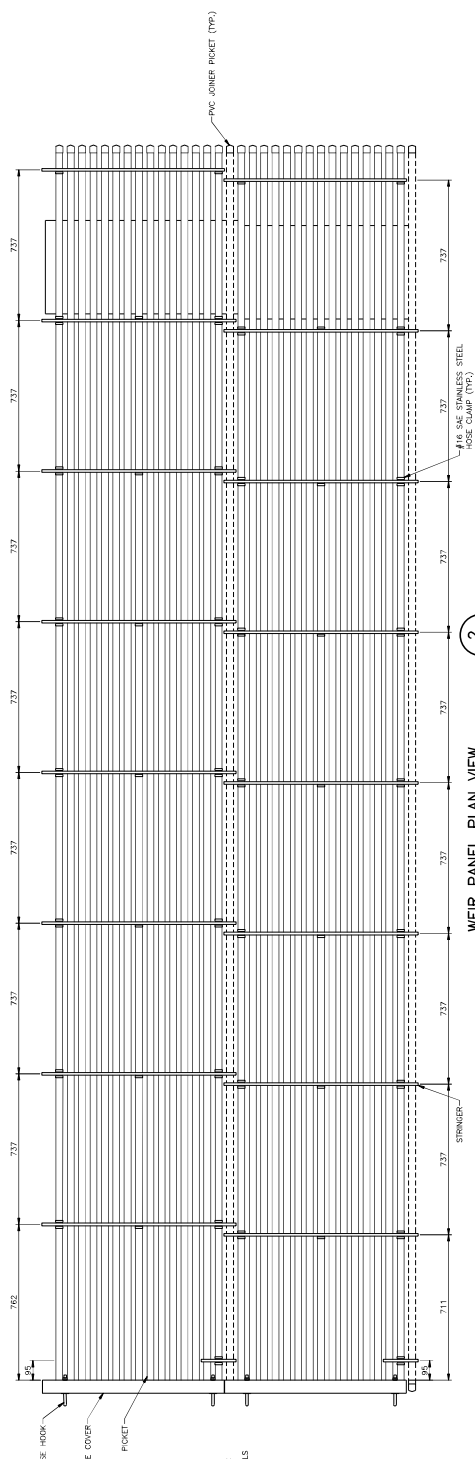
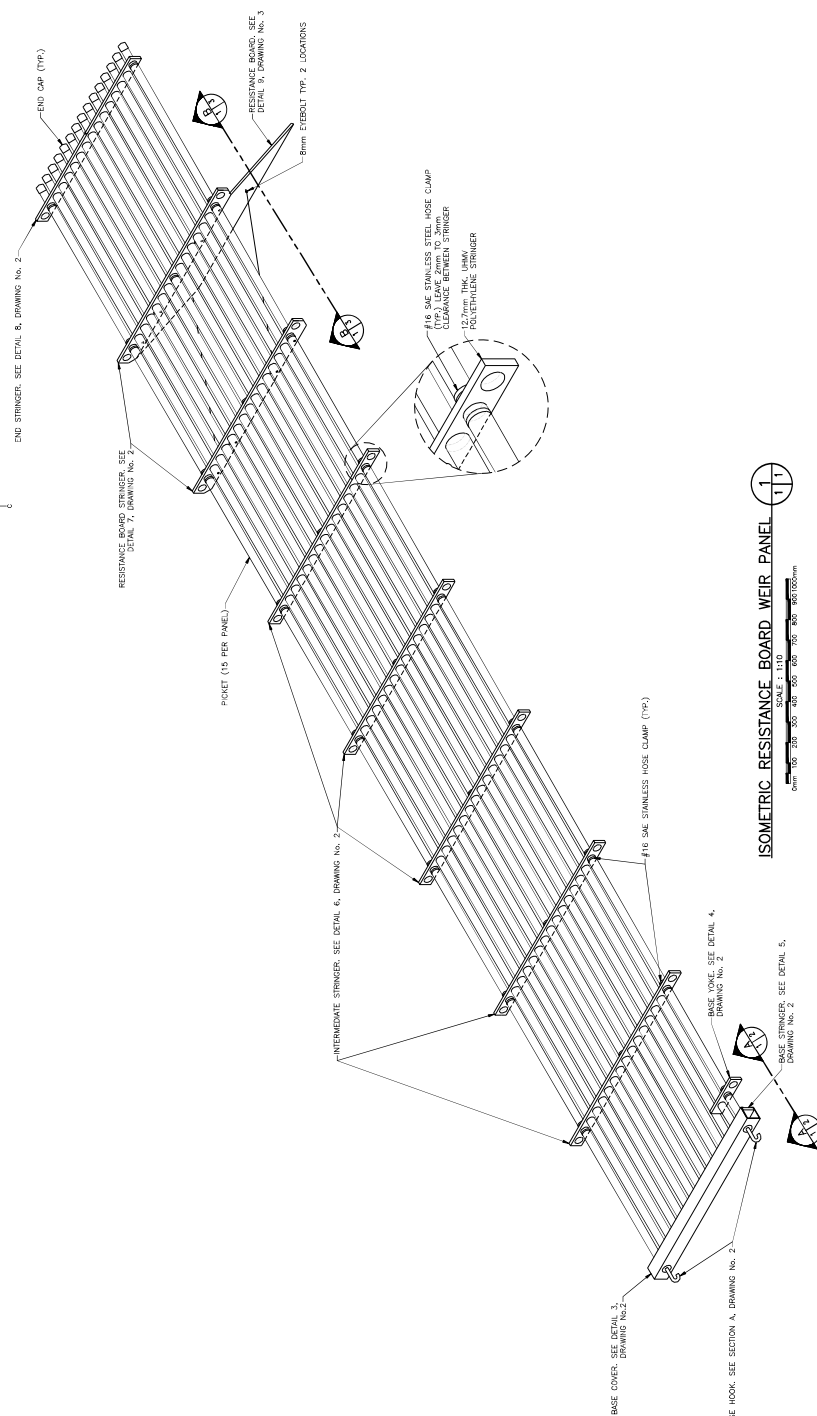
MAE 3 2017	ISSUED FOR TENDER	date
AA		
plaza		

RESISTANCE BOARD
FISH WEIR

CHETICAMP RIVER
NOVA SCOTIA


TYPICAL RESISTANCE
BOARD WEIR PANEL

Project Manager	Project number	Administrateur de projet APC	no. du projet	Source
D. HENNESSY	5, GILLIS			
NOVEMBER 2016				
NOVEMBER 2016				
G. MACDONALD				
MARCH 2017				

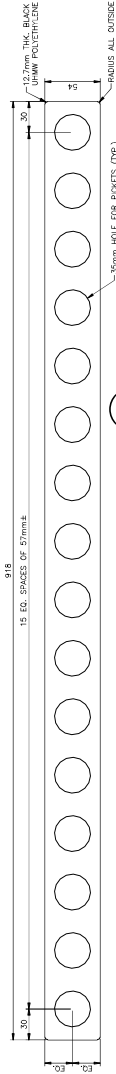
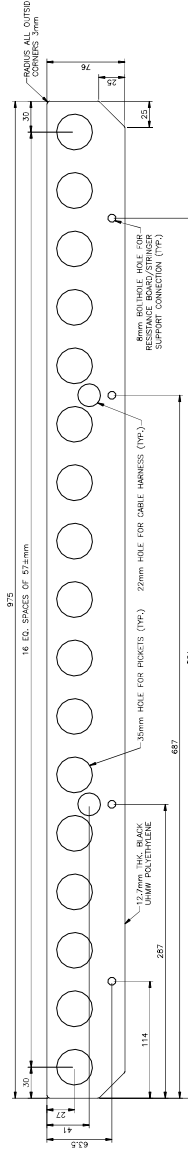
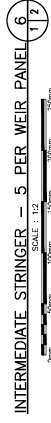
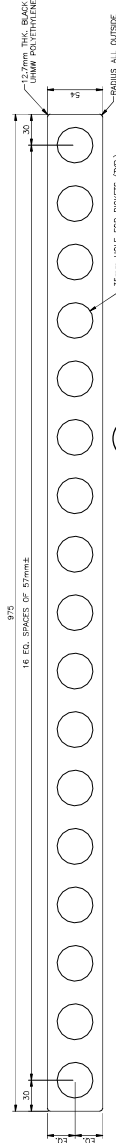
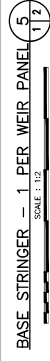
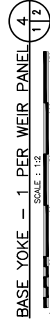
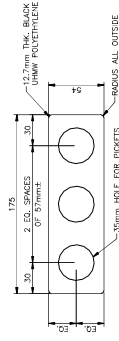
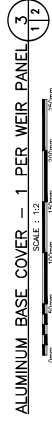
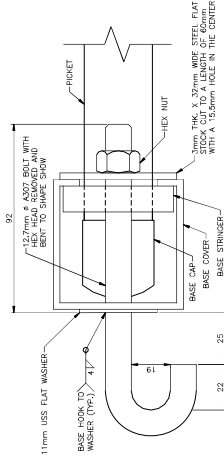
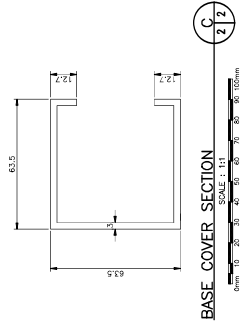


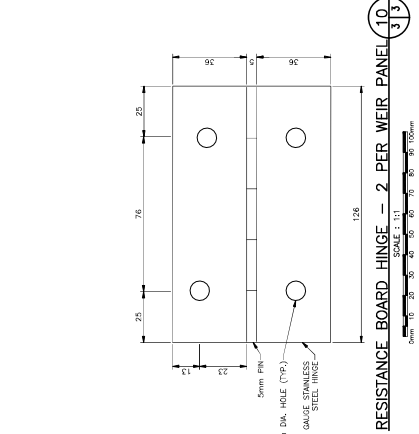
WEIR PANEL PLAN VIEW

SCALE : 1:10

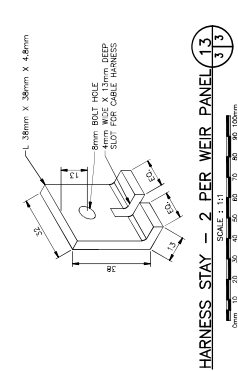


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1

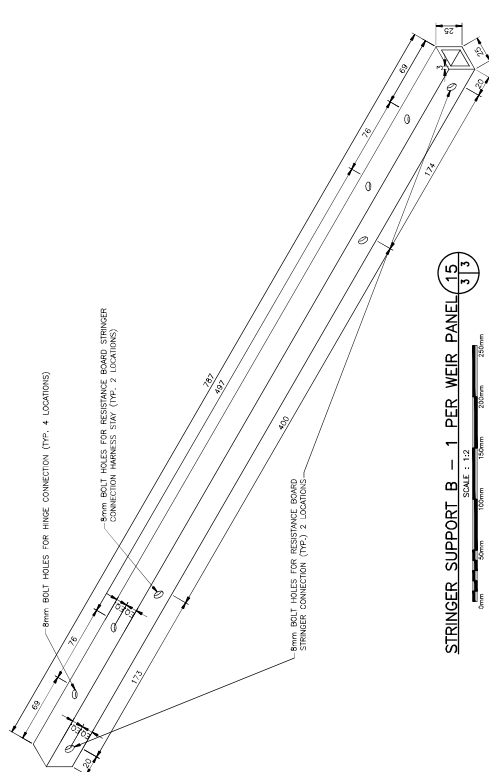




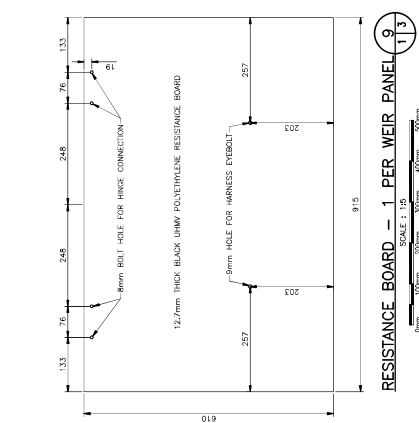
RESISTANCE BOARD HINGE - 2 PER WEIR PANEL 10



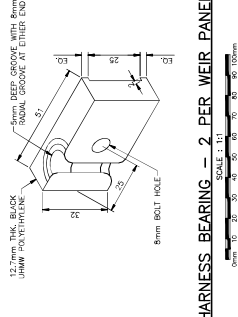
HARNESS STAY - 2 PER WEIR PANEL



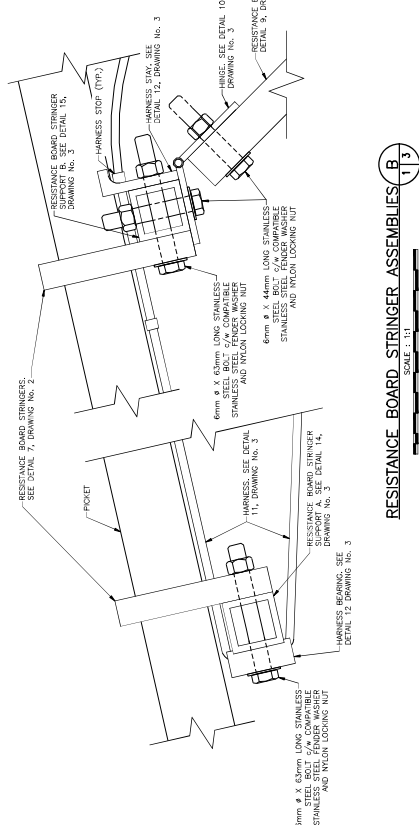
STRINGER SUPPORT B - 1 PER WEIR PANEL 15
SCALE : 1:2
3 3



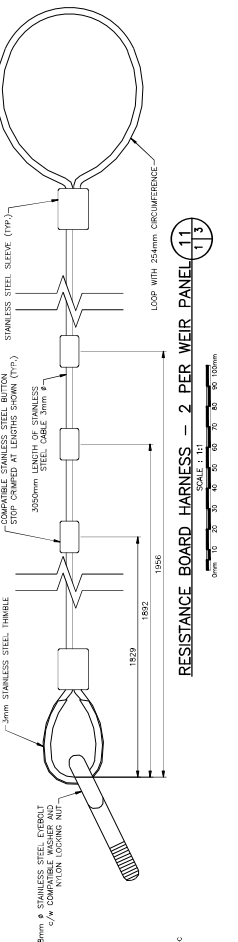
RESISTANCE BOARD - 1 PER WEIR PANEL 9
SCALE: 1:5
13



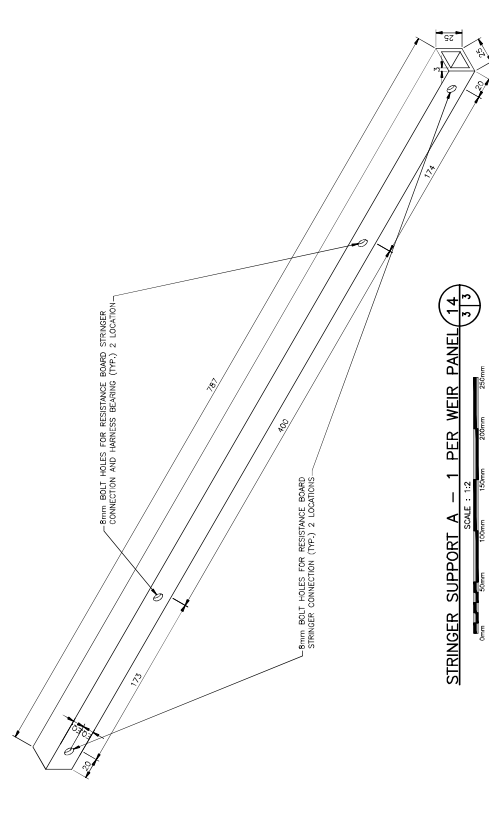
HARNESS BEARING - 2 PER WEIR PANEL



RESISTANCE BOARD STRINGER ASSEMBLIES



RESISTANCE BOARD HARNESS - 2 PER WEIR PANEL 11
1 3



STRINGER SUPPORT A - 1 PER WEIR PANEL 14
SCALE : 1:2

SUBSTRATE RAIL CROSS SECTION

0mm 100mm 250mm 350mm 400mm 500mm

SCALE : 1:5

D



SUBSTRATE RAIL LEG — 3 PER RAIL UNIT

SCALE : 1:2

18



SUBSTRATE RAIL TYPICAL CROSS SECTION 20
4 4
SCALE : 1:1



ISOMETRIC ASSEMBLED SUBSTRATE RAIL UNIT - 16 REQUIRED

SCALE: 1:10

The drawing shows a rectangular rail unit with a central raised section. Dimensions are provided in millimeters (mm) and inches (in). The scale bar indicates a length of 100 mm (4 in).

Dimension	Value (mm)	Value (in)
Overall Length	1000	40.0
Overall Width	100	4.0
Central Section Width	100	4.0
Central Section Height	100	4.0
End Section Width	100	4.0
End Section Height	100	4.0



SUBSTRATE RAIL

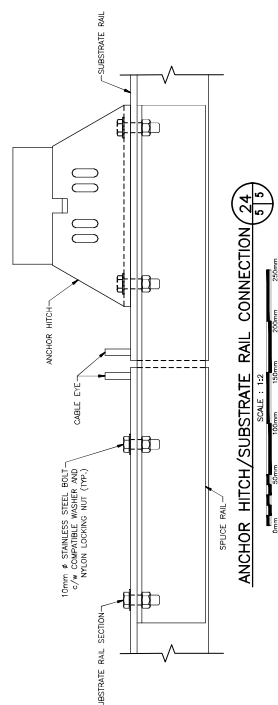
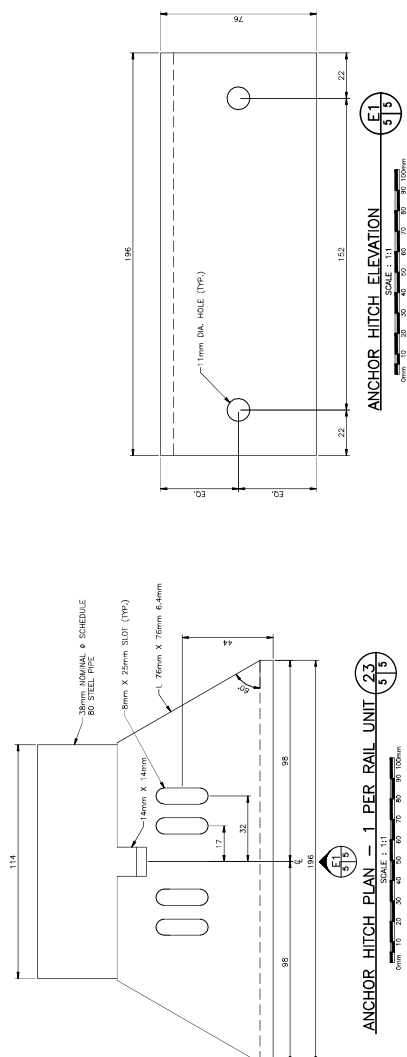
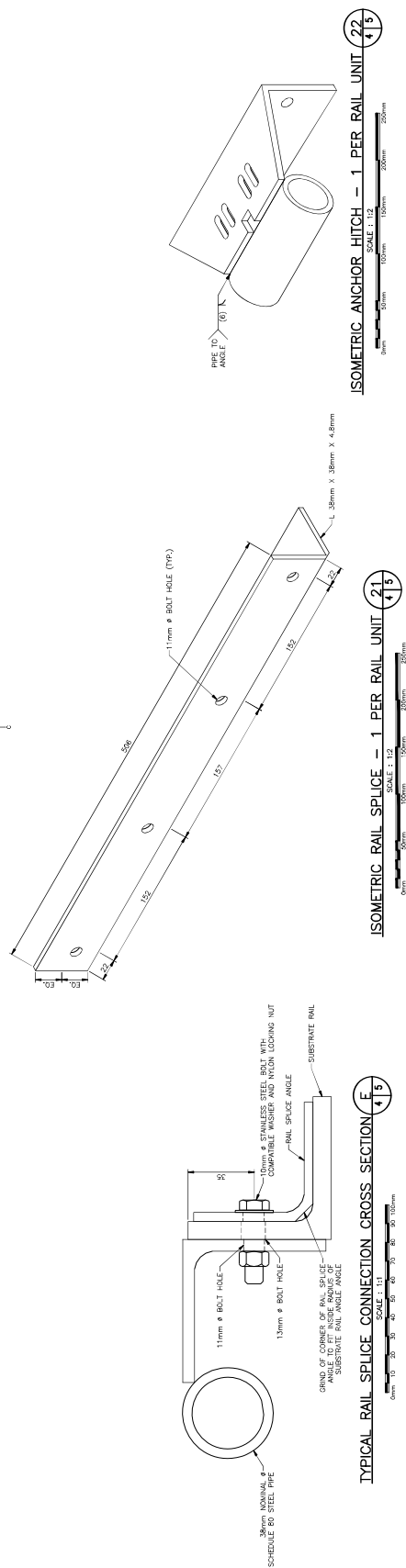
SCALE : 1:10

The diagram illustrates a cross-section of a substrate rail. On the left, there is a vertical support structure. At the top of this support is a circular component containing a cross symbol and the number 17. Below this, the support tapers down to meet the substrate rail. The substrate rail itself is a long, thin rectangular block. Below the rail, there is a scale bar consisting of alternating black and white segments, labeled "SCALE : 1:10".



SUBSTRATE RAIL REBAR STAKE - 2 PER RAIL LEG 19





A	ISSUED FOR TENDER	MAR 3 2017
modifications		date

project

RESISTANCE BOARD
FISH WEIR

CHETICAMP RIVER
NOVA SCOTIA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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RAIL SPLICE AND ANCHOR HITCH DETAILS

designed	D. HENNESSEY	congrs
title	NOVEMBER 2016	
drawn	S. GILLIS	designed
title	NOVEMBER 2016	
approved	G. MACDONALD	approved
date	MARCH 2017	

réf.	CA Project Manager	Administrateur de projets APC	no. du projet
	project number		

8 OF 9



- LIVE FISH TRAP NOTES:
1. ONE LIVE FISH TRAP IS REQUIRED FOR CONSTRUCTION OF RESISTANCE BOARD FISH WEIR.
 2. ALL HOLES FOR REMOVABLE AND CONNECTION POCKETS ARE TO BE 117mm LONG.
 3. REMOVABLE AND CONNECTION POCKETS TO BE 117mm LONG.
 4. REMOVABLE AND CONNECTION POCKETS TO BE ON TOP SIDE OF BOTTOM SQUARE TUBING BOTTOM FACE.



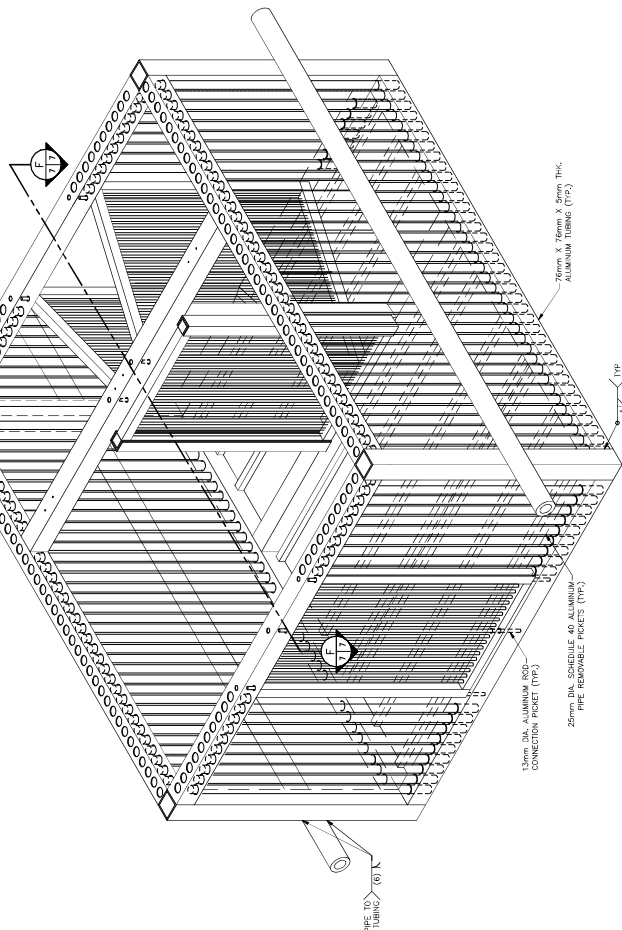
REVISION	DATE	BY	APP'D
A	ISSUED FOR TENDER	2017	

RESISTANCE BOARD
FISH WEIR
CHETICAMP RIVER
NOVA SCOTIA

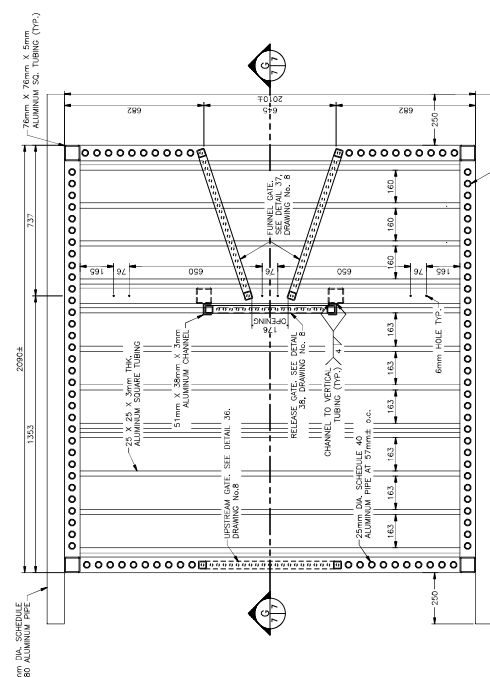
DATE: 2017

LIVE FISH TRAP DETAILS

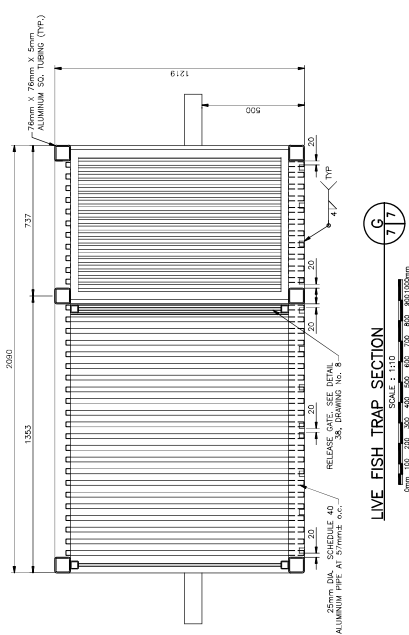
DESIGNED BY	D. HENNESSY	DATE	2016
CHECKED BY	S. GILLIS	DATE	2016
APPROVED BY	G. MACDONALD	DATE	2016
DATE	MARCH 2017	PROJECT NO.	10-10-10-10
PROJECT NAME	CHETICAMP RIVER	NO. OF SHEETS	7 OF 8



ISOMETRIC LIVE FISH TRAP
SCALE: 1:110
0mm 100 200 300 400 500 600 700 800 900 1000mm



LIVE FISH TRAP PLAN
SCALE: 1:113
0mm 100 200 300 400 500 600 700 800 900 1000mm



LIVE FISH TRAP SECTION
SCALE: 1:113
0mm 100 200 300 400 500 600 700 800 900 1000mm



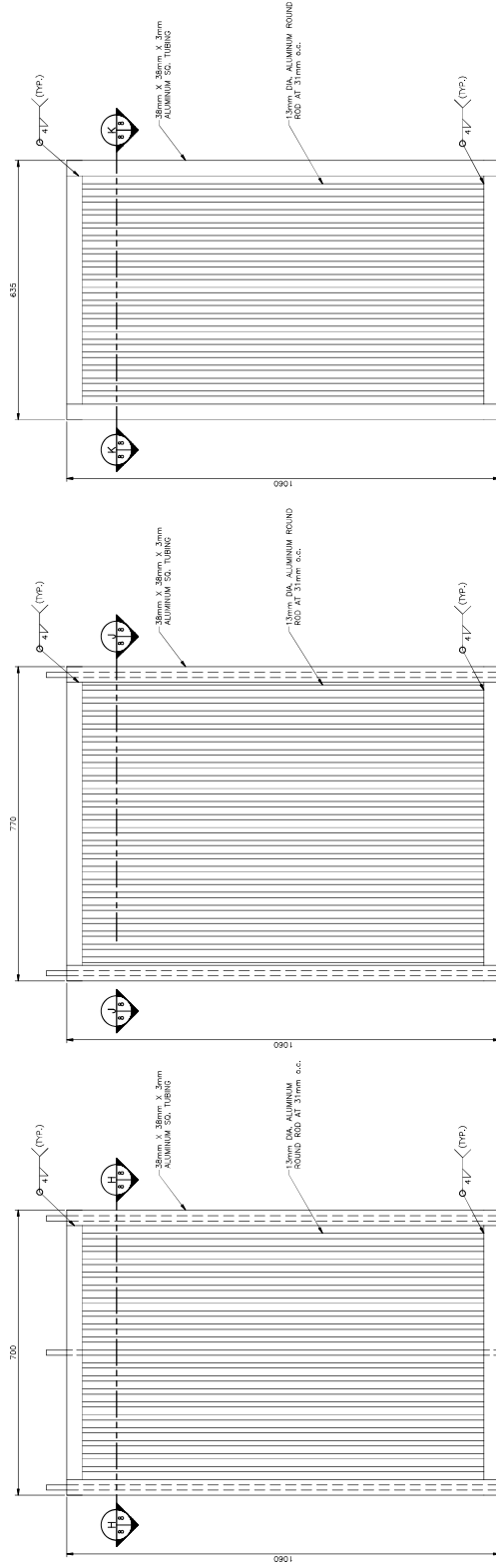
A	ISSUED FOR TENDER	MAR 2011
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project

RESISTANCE BOARD
FISH WEIR

CHETICAMP RIVER
NOVA SCOTIA

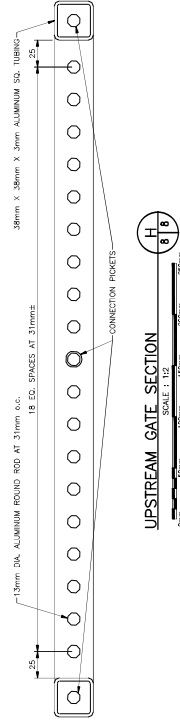
GATE DETAILS AND SECTIONS

[illegible]

RELEASE GATE -- 1 REQUIRED

FUNNEL GATE -- 2 REQUIRED

UPSTREAM GATE — 1 REQUIRED



UPSTREAM GATE SECTION

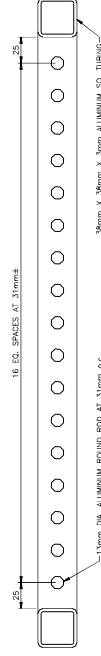
SCALE : 1:2

H
8 8



FUNNEL GATE SECTION

SCALE : 1:2



RELEASE GATE SECTION

SCALE : 1:2

0mm 50mm 100mm 150mm 200mm 250mm

0 8 K

Table 1:

Resistance Board User Panel Components					
Number	Metric Description of Component	Length (mm)	Imperial Description of Component	Length (ft/in)	Units Per Panel
1	12.7mm Ø grade A307 bolt c/w compatible nut	as indicated	1/2" Ø grade A307 bolt c/w compatible nut		2
2	11mm USS flat washer	na	7/16" USS flat washer	na	2
3	32mm wide x 60mm long x 3mm thick steel flat stock washer	as indicated	1 1/4" wide x 2-3/8" long x 1/8" thick steel flat stock washer	as indicated	2
4	Aluminum square tube .63.5mm x .63.5mm x 3.2mm	918	Aluminum square tube .2.5" x 2.5" x 1/8"	3' 1/8"	2
5	PVO schedule 40 electrical conduit 25.4mm Ø	6096	PVO schedule 40 electrical conduit 1" Ø	20'	1
6	PVO schedule 40 electrical conduit 25.4mm Ø	6096	PVO schedule 40 electrical conduit 1" Ø	20'	15
7	PVO socket cap 25.4mm Ø	na	PVO socket cap 1" Ø	na	32
8	12.7mm thick UHMW polyethylene mill plate	as indicated	1/2" thick UHMW polyethylene mill plate	as indicated	10
9	#16 SAE stainless steel clamp	na	#16 SAE stainless steel nut 1/8"	na	39
10	Aluminum square tube .63.5mm x .63.5mm x 3.2mm thick	762	Aluminum square tube 1" x 1" x 1/8" thick	2' 5/8"	2
11	76mm Ø grade #16 stainless steel continuous hinge	126	3" open face #16 grade stainless steel continuous hinge	5"	2
12	12.7mm thick 610mm wide UHMW polyethylene mill plate	915	1/2" thick 2' wide UHMW polyethylene mill plate	3'	1
13	6mm Ø stainless steel bolt c/w compatible fender washer and nylon locking nut	63	1/4" Ø stainless steel bolt c/w compatible fender washer and nylon locking nut	2.5"	8
14	6mm Ø stainless steel bolt c/w compatible fender washer and nylon locking nut	44	1/4" Ø stainless steel bolt c/w compatible fender washer and nylon locking nut	1.75"	8
15	Stainless steel cable (7x19) 3mm Ø	3050	Stainless steel cable (7x19) 1/8" Ø	10'	2
16	Cable ferrule, stainless steel button stop, 3mm Ø	na	Cable ferrule, stainless steel button stop, 1/8" Ø	na	6
17	Cable ferrule, stainless steel sleeve, 3mm Ø	na	Cable ferrule, stainless steel sleeve, 1/8" Ø	na	4
18	Stainless steel cable thimble, 3mm Ø	na	Stainless steel cable thimble, 1/8" Ø	na	2
19	Stainless steel eyebolt 8mm Ø, c/w compatible washer and nylon locking nut	70	Stainless steel eyebolt 5/16" Ø, c/w compatible washer and nylon locking nut	2.75"	2
20	L38 x 38 x 4.8mm	32	1.5 x 1.5 x 3/16"	1.25"	2
21	12.7mm thick 32mm wide UHMW polyethylene mill plate	51	1/2" thick 1.25" wide UHMW polyethylene mill plate	2"	2
22					

Table 2:

Number	Metric Description		Substrate Rail Components		
	Length (mm)	Imperial Description	Length (ft/in)	Units per rail unit	Application
1	7/6 x 7/6 x 6.4mm		3/4 x 3 x 1/4"	10	substrate rail
2	6/4 x 6.4 x 4.8mm		1/2 x 2.5 x 3/16"	20	substrate rail
3	Steel flat bar, 7/6mm wide x 1/0mm thick		Steel flat bar, 3/8" wide x 3/8" thick	3	rail splice
4	Steel flat bar, 23.4mm wide x 9mm thick		Steel flat bar, 1" wide x 1/4" thick	34.25"	rail leg
5	3/0" Steel rebar, c/w compatible washer and nylon locking nut		3/2" Ø steel rebar, c/w compatible washer	30"	rod eye
6	3/0" Steel rebar, c/w compatible washer and nylon locking nut		1/2" Ø steel rebar, c/w compatible washer	1.25"	rebar stake
7	10mm Ø stainless steel bolt, c/w compatible washer and nylon locking nut		3/8" Ø stainless steel bolt, c/w compatible washer and nylon locking nut	2	rail leg connection
8	3.5mm thick 1.210mm wide Polyethylene mesh with 32mm voids		1/8" thick 4" wide Polyethylene mesh with 1.25" voids	1.5"	substrate apron
9	1/4" steel rebar		#5 steel rebar	28"	substrate apron
10	16mm Ø steel bar		5/8" Ø steel bar	10"	substrate rail rod
11	38mm Ø schedule 80 steel pipe		1.5" Ø schedule 80 steel pipe	4.5"	anchor hitch
12	7/6 x 7/6 x 6.4mm		1/4 x 3/4 x 1/4"	7.75"	anchor hitch

Table 3:

Floating Bulkhead Components						
Number:	Metric Description	Length (mm)	Imperial Description	Length (ft/in)	Units	Application
1	12.7mm thick UHMW polyethylene mill plate	as indicated	1/2" thick UHMW polyethylene mill plate	as indicated	11	as indicated
2	PVC schedule 40 electrical conduit 25.4mm Ø	as indicated	PVC schedule 40 electrical conduit 1" Ø	as indicated	27	picket
3	PVC schedule 40 electrical conduit 25.4mm Ø	6096	PVC schedule 40 electrical conduit 1" Ø	20'	1	joiner picket
4	PVC socket cap 25.4mm Ø	na	PVC socket cap 1" Ø	na	56	picket caps/joiner picket caps
5	#16 SAE stainless hose clamp	na	#16 SAE stainless hose clamp	na	38	retaining clamp

Table 4:

Metric Description		Live Trap		
Number	Length (mm)	Imperial Description	Length (ft/in)	Units
1	Aluminum square tubing, 76mm x 76mm x 5mm thick	as indicated	Aluminum square tubing, 3" x 3" x 0.188" thick	as indicated
2	Aluminum square tubing, 25mm x 25mm x 3mm thick	as indicated	Aluminum square tubing, 1" x 1" x 1/8" thick	16
3	Aluminum square tubing, 38mm x 38mm x 3mm thick	as indicated	Aluminum square tubing, 1.5" x 1.5" x 1/2"	12
4	25mm Ø schedule 40 aluminum pipe	1060	1" schedule 40 aluminum pipe	lumen release upstream gate
5	45mm Ø schedule 40 aluminum pipe	1060	1.75" schedule 40 aluminum pipe	lumen release upstream gate
6	50mm Ø schedule 60 aluminum pipe	as indicated	2" Ø schedule 60 aluminum pipe	2
7	13mm Ø aluminum rod	1170	1/2" aluminum rod	46"
8	13mm Ø aluminum rod	984	1/2" aluminum rod	38.75"
9	13mm Ø aluminum rod	984	1/2" aluminum rod	38.75"