



**Fisheries and Oceans Canada / Pêches et Océans Canada**

**SMALL CRAFT HARBOURS**

**NOTES:**

- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

**PROFESSIONAL ENGINEER**  
NEIL C. HURT  
SIGNATURE  
31111  
NEWFOUNDLAND & LABRADOR

**PROVINCE OF NEWFOUNDLAND**  
PERMIT HOLDER  
This Permit Allows  
AFN ENGINEERING INC.  
To practice Professional Engineering in Newfoundland and Labrador.  
Permit No. as issued by APEGNL 20217  
which is valid for the year 2014

B	ISSUED FOR TENDER	15/07/14
A	ISSUED FOR REVIEW	15/06/14
revisions		date
project		project

**LAUNCHWAY CONSTRUCTION**  
BIRD COVE, NL

**EXISTING AND NEW SITE PLAN**

designed N.H. concu  
date 15/07/14  
drawn P.H. desaine  
date 15/07/14  
approved approve  
Tender *Neil C. Hurt* Submission  
DFO Project Manager no. du projet  
Project number **F6143-14007**  
drawing no. no. du dessin

**C1**

EDRM Document No. TIDIS\_DOC\_NUM

**NOTES**

SURVEY PARTY CHIEF RICHARD HEALEY  
SURVEY VESSEL ALUMINUM BOAT  
SURVEY DATE(S) MAY 25-26, 2006 & MAY 13, 2010

**SOUNDER TYPE** SINGLE TRANSDUCER  
**SOUNDER SETTING** MIN/INST VEL. OF SOUND 1500 m/s  
**DEPTH GATE USED** N/A  
**POSITIONING SYSTEM USED** TRIMBLE 5700 GPS  
**LAND SURVEY POSITION BY** TRIMBLE 5700 GPS

**DATA TAPE/DISKS USED** OLD DRAWING FILES  
**TIDAL REDUCTION SCHEME**

**OFFICE PROCESSOR** EDDIE BEARNS  
**DATE OF PROCESSING** JUNE 2010

**MODE OF PLOTTING** LEAST OF MINIMUM DEPTHS  
**MATRIX CELL WITH X LENGTH**  
**REDUCTION OF MATRIX CELLS**

**CONTROL POINTS**

PL. NAME	EASTING	NORTHING	OD ELEV.	DESCRIPTION
8604030	504724.128	565564.826		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
8604034	505585.181	5656284.883		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
8607773	508644.108	5656743.342	+12.903 m	GEODETIC BRASS PLAQUE SET IN BEDROCK
PWC 1-2008	504637.457	5655632.704	+2.500 m	I.P. SET IN CONCRETE AT THE GOVT. WHARF
PWC 2-2008	504661.280	5655632.704	+2.515 m	I.P. SET IN CONCRETE AT THE GOVT. WHARF
PWC 3-2008	504673.609	5655647.233	+1.795 m	BRASS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.  
ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 1-2008 I.P. SET IN CONCRETE DECK & WAS ESTABLISHED FROM BM 89F377 ELEV. +12.903 m (BRASS PLAQUE IN BEDROCK).

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON MAY 13, 2010 & MAY 25-26, 2006.  
NOTE: PROCS USED A DIFFERENCE OF 0.93m BETWEEN GEODETIC & CHART DATUMS FOR THIS AREA.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.  
SPEED OF SOUND WAS OBTAINED USING A DIGITRACE-PRO VELOMETER.  
SOUNDINGS WERE REDUCED USING HYPOCK. MAX. VEF. 4.3.

ALL FIELD NOTES ARE IN A BOOK MARKED BIRD COVE.

**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETRES. ALL ELEVATIONS ARE IN METRES.

**LEGEND:**

- INDICATES NEW LAUNCHWAY
- 0.1 INDICATES WATER DEPTHS BELOW L.N.T. IN METRES
- 2.43 INDICATES ELEVATIONS IN METRES

