



NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) BETWEEN AUGUST 27,2018 & FEBRUARY 05,2020

SAUNDER TYPE: SINGLE TRANSDUCER
SAUNDER SETTING MIN/INST VEL. OF SOUND 1460 m/s
DEPTH GATE USED N/A FREQ. OF TRANS. 210 kHz

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S)
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR	EDDIE BEARNS			
DATE OF PROCESSING	FEBRUARY 2020			
MODE OF PLOTTING	LEAST OF MINIMUM DEPTHS			
MATRIX CELL WIDTH X LENGTH				
REDUCTION OF MATRIX CELLS				
CONTROL POINTS:				
PT. NAME	NORTHING	EASTING	CD ELEV	DESCRIPTION
PWC 1-2007	5217245.955	594878.768	3.42	PUNCH MARK ON STEEL IN CONC. WALL.
PWC 9003	5217305.770	594864.964	4.41	NAIL IN CONC. DECK OF BREAKWATER.
76G2575	5217117.478	594711.486		C.L. MON. SET IN CONC. CYLINDER.
76G2574	5217195.435	594481.174		C.L. MON. SET IN CONC. CYLINDER.
BM 1-88	5217241.887	594806.977	4.73	BRASS PLAQUE SET IN CONC. WALL.
CHS BM 1-1981	5216937.576	594736.401	3.402	CHS BRASS PLAQUE SET IN CONCRETE DECK
CHS BM 2-1981	5216925.470	594754.802	3.386	CHS BRASS PLAQUE SET IN CONCRETE DECK
BM 92F244	5216863.067	594784.704	7.09	GEODETIC BM SET IN SW CORNER OF BRIDGE

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 1-1981 ELEV. +3.402 m (BRASS PLAQUE SET IN CONCRETE DECK.)

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SAUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN AUGUST 27,2018 & SEPTEMBER 24,2018 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, 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.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013"A".

SPEED OF SOUND WAS OBTAINED BY "BAR CHECK" METHOD.

ALL FIELD NOTES ARE IN GRAND BANK BOOK #77"B".

LEGEND

SYMBOLS	
ANCHOR BLOCK	LADDER
BOLLARD	LIFE RING
BORDHOLE	LIGHT STANDARD
BOUNDARY MARKER	MANHOLE
CATCH BASIN	MARSH
CLEAT	MAST/TOWER
CULVERT	NAVIGATION LIGHT
DERRICK	OBSERVED BUOY
DISPOSAL	OBSERVED SPAR BUOY
SEWER CONTROL	PIPE PILE
ELECTRICAL OUTLET	RANGE LIGHT
FIRE HYDRANT	SAFETY POST
FIRST AID	SEWER OUTFLOW PIPE
FISH HANDLING EQUIP.	SIGN
FOG HORN	TELEPHONE
FUEL PUMP	TELEPHONE POLE
H PILE	TIDE GAUGE/STAFF
HORIZONTAL CONTROL	TREE
ICE PLANT	UTILITY POLE
INVERT PIPE	VERTICAL CONTROL
JIB CRANE	WATER TAP/OUTLET
FLAG POLE	WATER VALVE
	WATER WELL
	WOOD PILE
LINE TYPE	
ARMOUR STONE	MARSH OUTLINE
CL RAILROAD	PROPERTY BOUNDARY
DRAIN PIPE	RANGE LIGHT EXTENSION
EDGE ROAD / SHOULDER	RETAINING WALL
FENCE LINE	RIPRAP
FLOATING WAVEBREAK	TOE OF BANK
GUARD RAIL	TREE LINE
HIGH WATER MARK	UNDERGROUND CABLE
LOW WATER MARK	

SCALE: 1:250
0m 5m 10m 15m 20m 25m

SMALL CRAFT HARBOURS



- NOTES:**
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND	PERMIT HOLDER
	This Permit Allows
APN ENGINEERING INC.	
To practice Professional Engineering in Newfoundland and Labrador.	
Permit No. as issued by APENL F0282	
which is valid for the year 2021.	



J	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	6/19/21
I	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	3/24/21
H	RE-ISSUED FOR TENDER BASED ON 2020 SCOPE	6/19/20
G	RE-ISSUED FOR REVIEW BASED ON 2020 SCOPE	3/26/20
F	RE-ISSUED FOR TENDER	5/11/18
E	ISSUED FOR TENDER	3/19/18
D	RE-ISSUED FOR 99% REVIEW	6/9/17
C	ISSUED FOR 99% REVIEW	2/20/17
B	ISSUED FOR 66% REVIEW	2/13/17
A	ISSUED FOR 33% REVIEW	11/12/16

revisions	date
-----------	------

project	project
---------	---------

WHARF RECONSTRUCTION (PHASE II)
GRAND BANK, NL

drawing	dessin
---------	--------

SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H.	conçu
---------------	-------

date JUNE 19, 2021	
--------------------	--

drawn P.H.	dessiné
------------	---------

date JUNE 19, 2021	
--------------------	--

approved	approuvé
----------	----------

Tender	Soumission
--------	------------

DFO Project Manager	
---------------------	--

project number	no. du projet
----------------	---------------

C2-00200

drawing no.	no. du dessin
-------------	---------------

C1