

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 APBNL, F0282, which is valid for the year 2021.

REGISTERED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 6/19/21
 NEWFOUNDLAND & LABRADOR

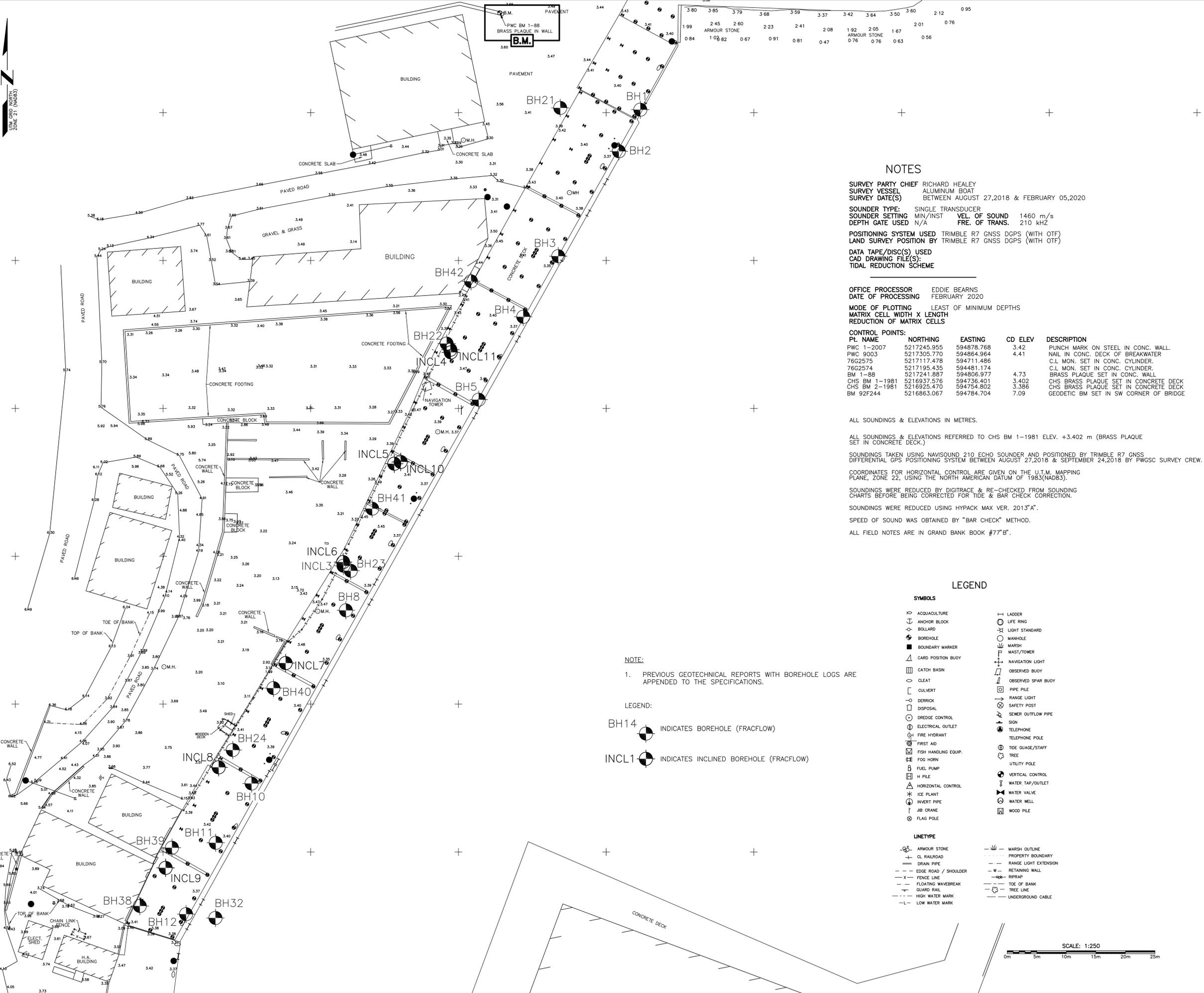
| | | |
|---|--|----------|
| J | RE-ISSUED FOR TENDER BASED ON 2021 SCOPE | 6/19/21 |
| I | RE-ISSUED FOR TENDER BASED ON 2021 SCOPE | 3/24/21 |
| H | RE-ISSUED FOR TENDER BASED ON 2021 SCOPE | 8/19/20 |
| G | RE-ISSUED FOR REVIEW BASED ON 2020 SCOPE | 3/26/20 |
| F | RE-ISSUED FOR TENDER | 5/11/18 |
| 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: [table with 2 columns: revision, date]

project: **WHARF RECONSTRUCTION (PHASE II) GRAND BANK, NL**

drawing: **BOREHOLE LOCATION PLAN**

designed: N.H. concu
 date: JUNE 19, 2021
 drawn: P.H. dessine
 date: JUNE 19, 2021
 approved: [signature]
 Tender: [signature] Soumission
 DFO Project Manager
 project number: **C2-00200**
 drawing no.: **C2**



NOTES
 SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) BETWEEN AUGUST 27,2018 & FEBRUARY 05,2020
 SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1460 m/s
 DEPTH GATE USED N/A FRE. 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 SOUNDER 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".

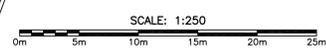
NOTE:
 1. PREVIOUS GEOTECHNICAL REPORTS WITH BOREHOLE LOGS ARE APPENDED TO THE SPECIFICATIONS.

LEGEND:
 BH14 INDICATES BOREHOLE (FRACFLOW)
 INCL1 INDICATES INCLINED BOREHOLE (FRACFLOW)

LEGEND

- SYMBOLS**
- ANCHOR BLOCK
 - BOLLARD
 - BOREHOLE
 - BOUNDARY MARKER
 - CARD POSITION BUOY
 - CATCH BASIN
 - CLEAT
 - CULVERT
 - DERRICK
 - DISPOSAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - FUEL PUMP
 - H PILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INVERT PIPE
 - JIB CRANE
 - FLAG POLE
 - LADDER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSERVED BUOY
 - OBSERVED SPAR BUOY
 - PIPE PILE
 - RANGE LIGHT
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SIGN
 - TELEPHONE
 - TELEPHONE POLE
 - TIDE GAUGE/STAFF
 - TREE
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER TAP/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE

- LINE TYPE**
- ARMOUR STONE
 - CL RAILROAD
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLOATING WAVEBREAK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - MARSH OUTLINE
 - PROPERTY BOUNDARY
 - RANGE LIGHT EXTENSION
 - RETAINING WALL
 - RIPRAP
 - TOE OF BANK
 - TREE LINE
 - UNDERGROUND CABLE



Plot Scale: PLOT SCALE