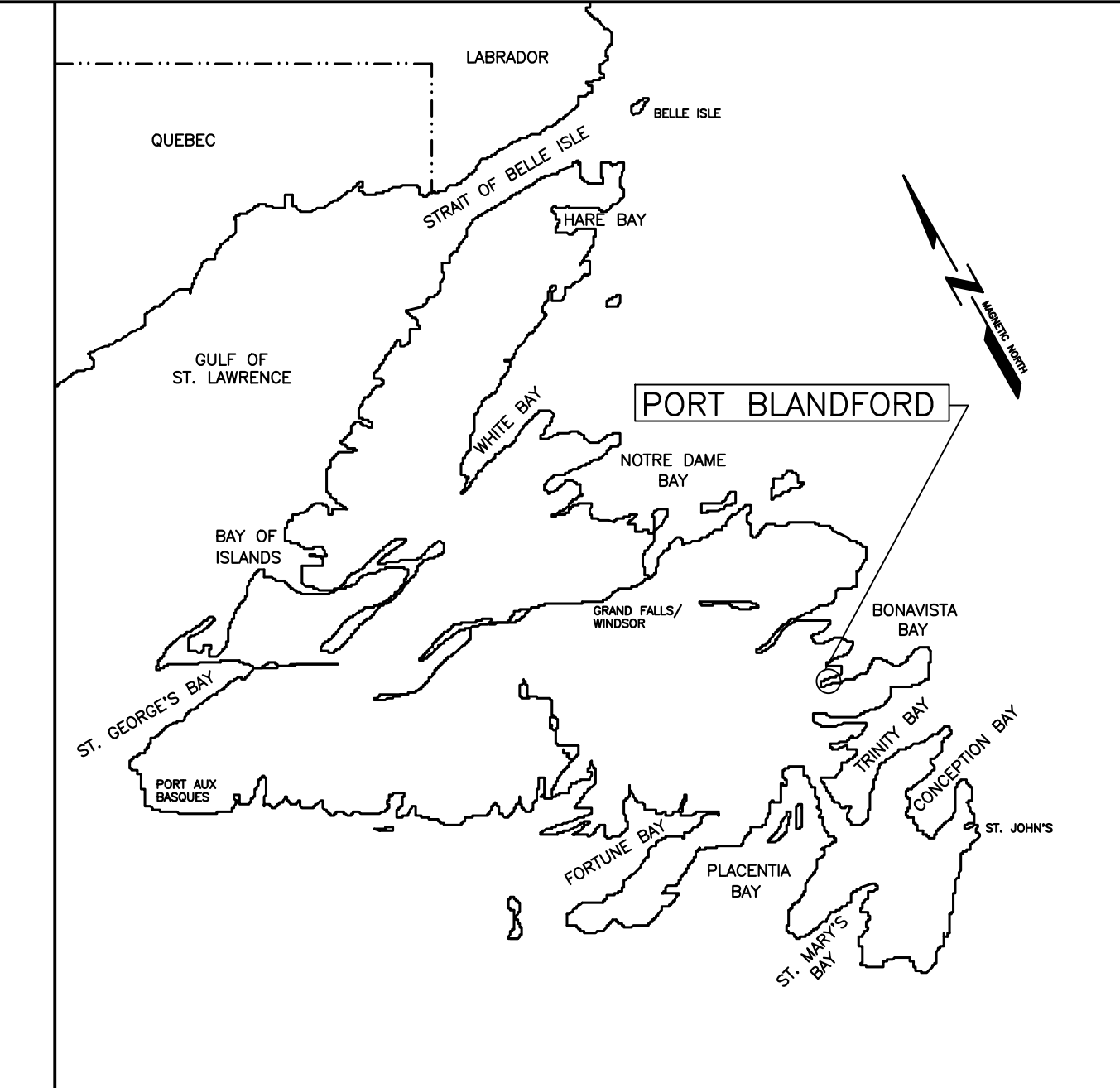


MARINA DEVELOPMENT
PORT BLANDFORD, NEWFOUNDLAND
BONAVISTA—GANDER—GRAND FALLS—WINDSOR DISTRICT
NEWFOUNDLAND AND LABRADOR REGION
PROJECT No. 722352
RE—ISSUED FOR 33% REVIEW

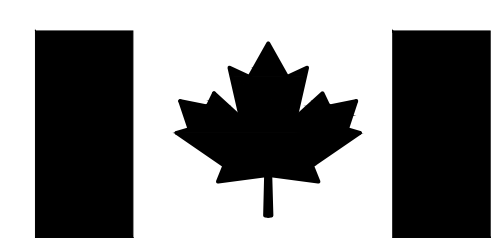


LIST OF DRAWINGS:

CIVIL

- C1 OF 4 EXISTING/DEMOLITION SITE PLAN
- C2 OF 4 NEW SITE PLAN
- C3 OF 4 SECTIONS
- C4 OF 4 LAUNCHWAY DETAILS

PREPARED FOR



Fisheries and Oceans
Canada

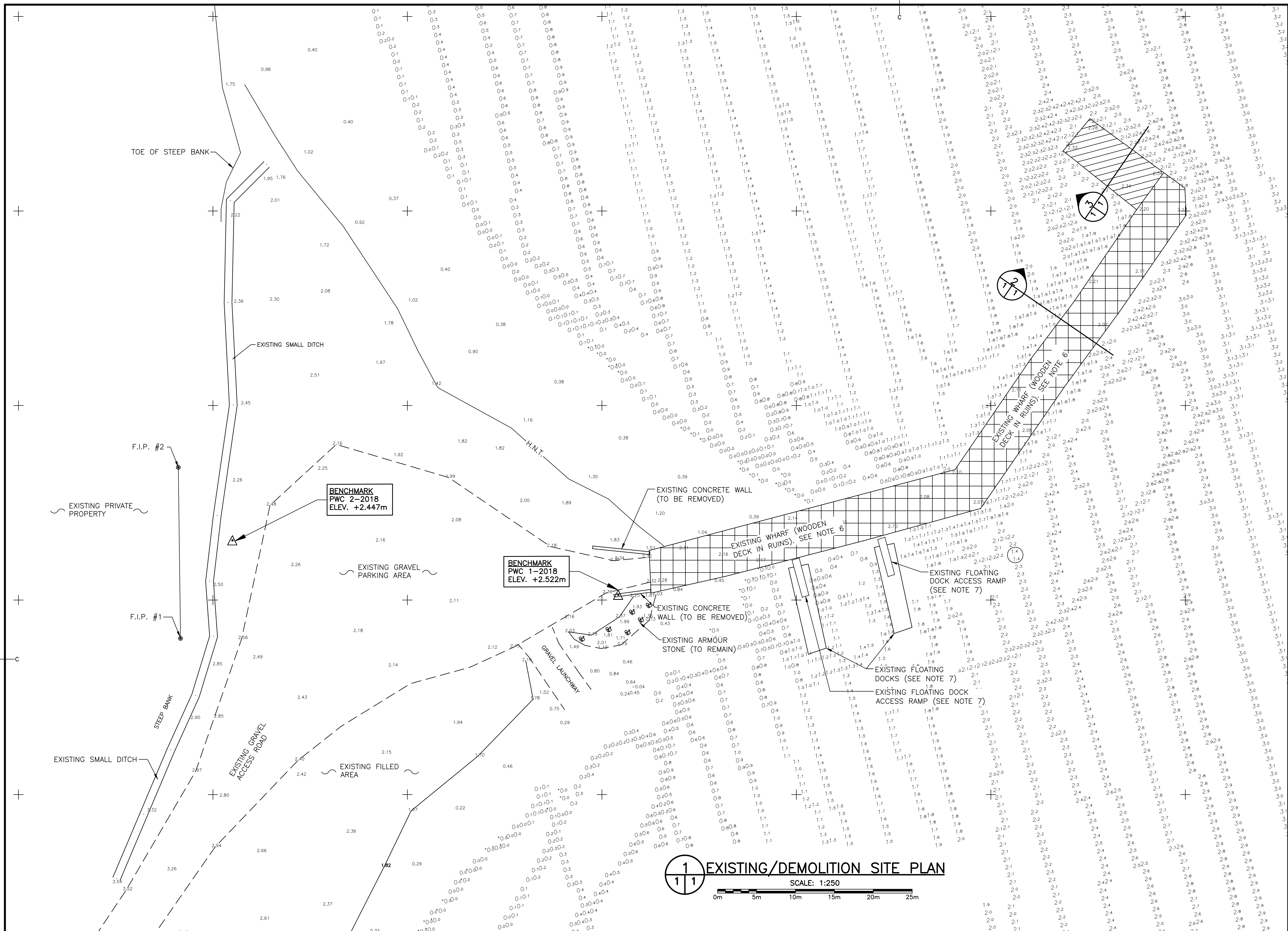
Pêches et Océans
Canada



Small Craft Harbours
Newfoundland Region
St. John's, NL.

Ports Pour Petits Bateaux

Canada



GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
- ALL SOUNDINGS AND ELEVATIONS IN METRES UNLESS OTHERWISE SPECIFIED.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
- RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS AS WELL AS ABOVE AND BELOW GROUND UTILITIES/SERVICE LINES SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.
- CONTRACTOR TO REMOVE EXISTING WHARF STRUCTURE TO +0.40m ABOVE L.N.T. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT AN APPROVED PROVINCIAL REGIONAL WASTE SITE.
- EXISTING FLOATING DOCKS, INCLUDING RAMPS AND RELATED MOORING DEVICES TO BE REMOVED AND RE-LOCATED BY OTHERS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO REMOVE THE ENTIRE PORTION OF THIS SECTION OF EXISTING WHARF STRUCTURE. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT AN APPROVED PROVINCIAL REGIONAL WASTE SITE.

GENERAL LEGEND:

- DENOTES EXISTING WHARF TO BE REMOVED TO +0.40m ABOVE L.N.T.
- DENOTES EXISTING PORTION OF WHARF TO BE COMPLETELY REMOVED
- 3.1 EXISTING SOUNDINGS
- 0.00 EXISTING SPOT ELEVATIONS

SURVEY NOTES

SURVEY PARTY CHIEF BRUCE TOUCHINGS
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) JUNE 18, 2018

SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1465 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 JUNE 2018

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

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
MON 866680	710016.298	5359570.887		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866681	710053.268	5360272.355		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866682	710161.202	5360645.825		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866683	710085.955	5360518.877	+12.804m	PROVINCIAL BRASS PLAQUE SET IN CONCRETE
PWC 1-2018	710227.114	5360475.675	+2.522m	NAI SET IN CONCRETE WALL AT WHARF
PWC 2-2018	710173.514	5360482.670	+2.447m	IRON PIN BREN FLUSH IN GRAVEL
F.I.P. #1	710170.836	5360470.065		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL
F.I.P. #2	710170.551	5360482.048		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL

ALL SOUNDINGS & ELEVATIONS IN METRES.
 ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 1-2018 ELEV. +2.522m (NAI SET IN CONCRETE WALL).
 NOTE: PWC USED 0.61m AS THE DIFFERENCE BETWEEN CHART & GEODETIC DATUMS SUPPLIED BY CHS.
 SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON JUNE 18, 2018 BY PWSC SURVEY CREW.
 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.
 SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013*A*.
 SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.
 ALL FIELD NOTES ARE IN PORT BLANDFORD BOOK #387.

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
- ALL SOUNDINGS AND ELEVATIONS IN METRES UNLESS OTHERWISE SPECIFIED.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
- RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS AS WELL AS ABOVE AND BELOW GROUND UTILITIES/SERVICE LINES SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.
- CONTRACTOR TO REMOVE EXISTING WHARF STRUCTURE TO +0.40m ABOVE L.N.T. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT AN APPROVED PROVINCIAL REGIONAL WASTE SITE.
- EXISTING FLOATING DOCKS, INCLUDING RAMPS AND RELATED MOORING DEVICES TO BE REMOVED AND RE-LOCATED BY OTHERS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO REMOVE THE ENTIRE PORTION OF THIS SECTION OF EXISTING WHARF STRUCTURE. ENSURE ALL ITEMS WHICH ARE DESIGNATED FOR REMOVAL ARE FULLY EXTRACTED IN THEIR ENTIRETY. CONTRACTOR TO DISPOSE OF ALL DEMOLISHED MATERIALS AT AN APPROVED PROVINCIAL REGIONAL WASTE SITE.

GENERAL LEGEND:

- DENOTES EXISTING WHARF TO BE REMOVED TO +0.40m ABOVE L.N.T.
- DENOTES EXISTING PORTION OF WHARF TO BE COMPLETELY REMOVED
- 3.1 EXISTING SOUNDINGS
- 0.00 EXISTING SPOT ELEVATIONS

SURVEY NOTES

SURVEY PARTY CHIEF BRUCE TOUCHINGS
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) JUNE 18, 2018

SOUNDER TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1465 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 JUNE 2018

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

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
MON 866680	710016.298	5359570.887		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866681	710053.268	5360272.355		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866682	710161.202	5360645.825		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866683	710085.955	5360518.877	+12.804m	PROVINCIAL BRASS PLAQUE SET IN CONCRETE
PWC 1-2018	710227.114	5360475.675	+2.522m	NAI SET IN CONCRETE WALL AT WHARF
PWC 2-2018	710173.514	5360482.670	+2.447m	IRON PIN BREN FLUSH IN GRAVEL
F.I.P. #1	710170.836	5360470.065		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL
F.I.P. #2	710170.551	5360482.048		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL

ALL SOUNDINGS & ELEVATIONS IN METRES.
 ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 1-2018 ELEV. +2.522m (NAI SET IN CONCRETE WALL).
 NOTE: PWC USED 0.61m AS THE DIFFERENCE BETWEEN CHART & GEODETIC DATUMS SUPPLIED BY CHS.
 SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON JUNE 18, 2018 BY PWSC SURVEY CREW.
 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.
 SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013*A*.
 SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.
 ALL FIELD NOTES ARE IN PORT BLANDFORD BOOK #387.

revisions		date
B	RE-ISSUED FOR 33% REVIEW	18/07/24
A	ISSUED FOR 33% REVIEW	18/07/19

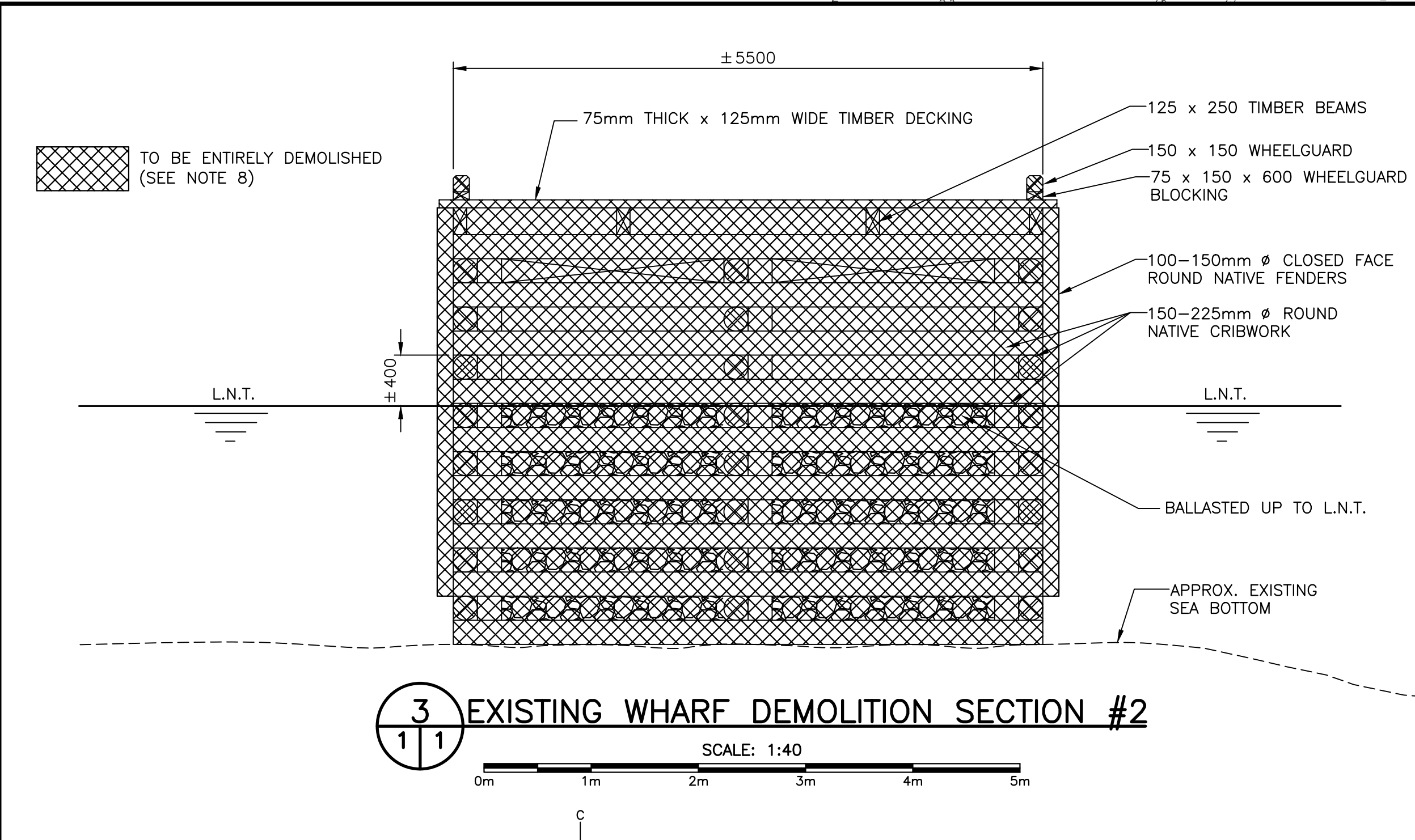
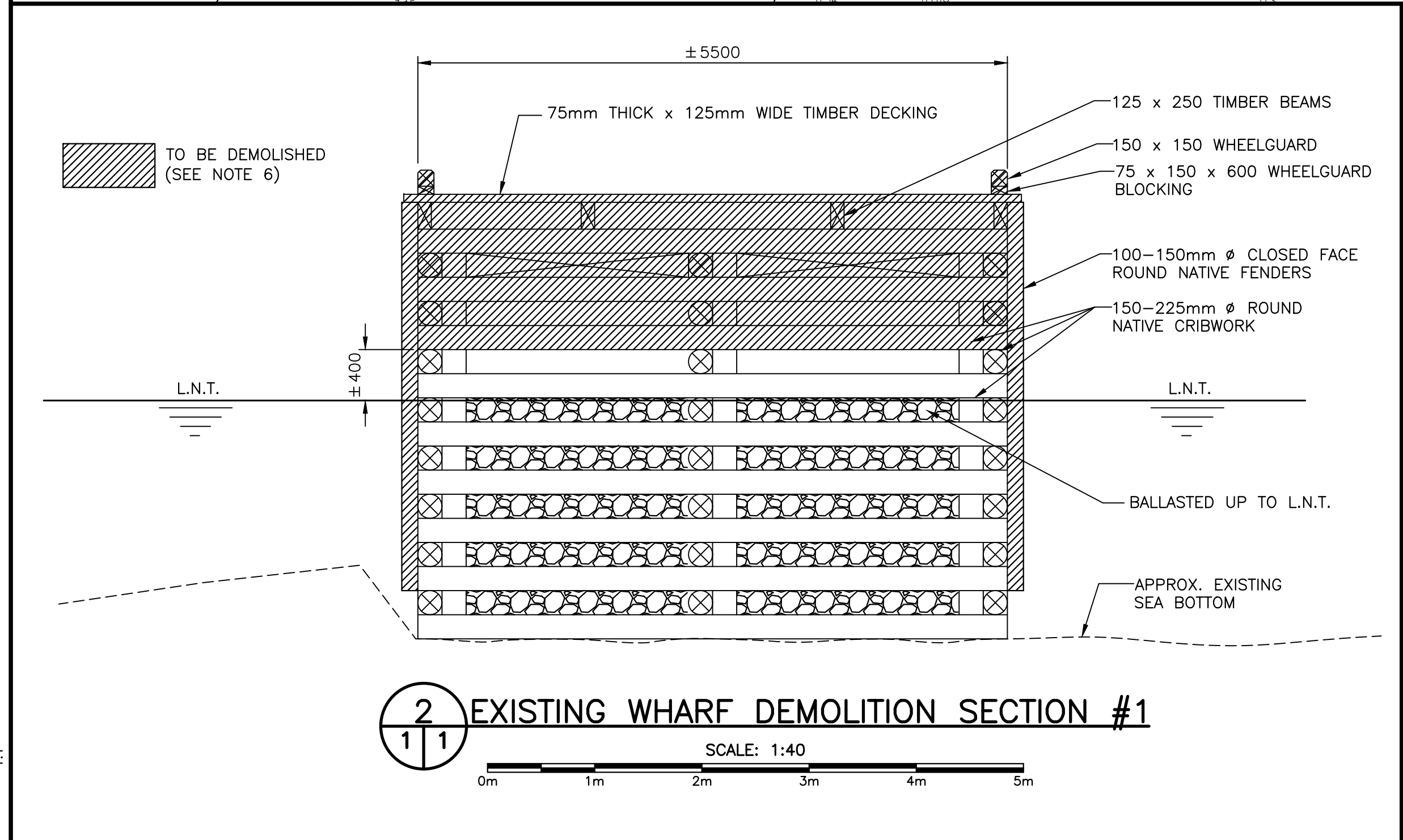
project project

MARINA DEVELOPMENT PORT BLANDFORD, NL

drawing design

EXISTING/DEMOLITION SITE PLAN

designed L. BENNETT concu
 date JULY 12, 2018
 drawn M. LEGGE dessine
 date JULY 12, 2018
 approved approve
 date
 Tender Soumission
 DFO Project Manager Administrateur de projets MPD
 project number no. du projet
722352
 drawing no. no. du dessin
C1 OF 4



2 EXISTING WHARF DEMOLITION SECTION #1
 SCALE: 1:40

3 EXISTING WHARF DEMOLITION SECTION #2
 SCALE: 1:40

TO BE DEMOLISHED (SEE NOTE 6)

TO BE ENTIRELY DEMOLISHED (SEE NOTE 8)

75mm THICK x 125mm WIDE TIMBER DECKING

125 x 250 TIMBER BEAMS

150 x 150 WHEELGUARD

75 x 150 x 600 WHEELGUARD BLOCKING

100-150mm Ø CLOSED FACE ROUND NATIVE FENDERS

150-225mm Ø ROUND NATIVE CRIBWORK

BALLASTED UP TO L.N.T.

APPROX. EXISTING SEA BOTTOM

L.N.T.

SCALE: 1:40

0m 1m 2m 3m 4m 5m

SURVEY NOTES

SURVEY PARTY CHIEF BRUCE TOUCHINGS
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) JUNE 18, 2018
 SOUNDER TYPE SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1465 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 JUNE 2018
 MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
 MATRIX CELL WIDTH X LENGTH
 REDUCTION OF MATRIX CELLS

PL. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
MON 866080	710018.298	5359570.887		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866081	710053.288	5360272.355		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866082	710161.202	5360645.825		PROVINCIAL BRASS PLAQUE SET IN CONCRETE
MON 866083	710089.965	5360918.877	+12.804m	PROVINCIAL BRASS PLAQUE SET IN CONCRETE
PWC 1-2018	710227.114	5360475.675	+2.522m	NAIL SET IN CONCRETE WALL AT WHARF
PWC 2-2018	710177.514	5360482.670	+2.447m	IRON PIN DREN FLUSH IN GRAVEL
F.I.P. #1	710170.836	5360470.085		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL
F.I.P. #2	710170.551	5360492.048		FOUND IRON LEGAL PIN DRIVEN IN GRAVEL FILL

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 1-2018 ELEV. +2.522m (NAIL SET IN CONCRETE WALL).
 NOTE: PWC USED 0.61m AS THE DIFFERENCE BETWEEN CHART & GEODETIC DATUMS SUPPLIED BY CHS.

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON JUNE 18, 2018 BY PWSC SURVEY CREW.

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 & BATHY CHECK CORRECTION.

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

SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.

ALL FIELD NOTES ARE IN PORT BLANDFORD BOOK #387.

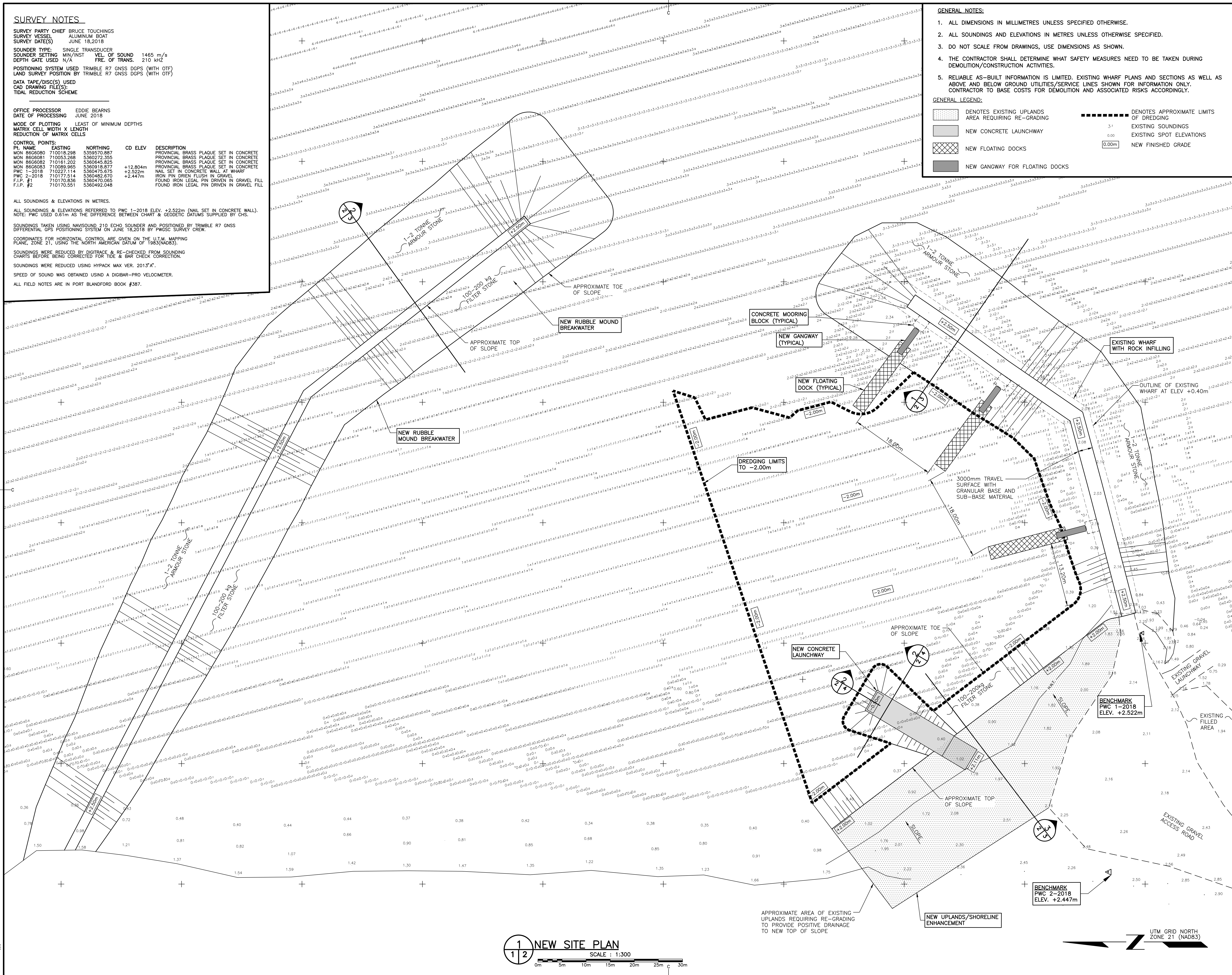
GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. ALL SOUNDINGS AND ELEVATIONS IN METRES UNLESS OTHERWISE SPECIFIED.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
5. RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS AS WELL AS ABOVE AND BELOW GROUND UTILITIES/SERVICE LINES SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.

GENERAL LEGEND:

- DENOTES EXISTING UPLANDS AREA REQUIRING RE-GRADING
- NEW CONCRETE LAUNCHWAY
- NEW FLOATING DOCKS
- NEW GANGWAY FOR FLOATING DOCKS
- DENOTES APPROXIMATE LIMITS OF DREDGING
- EXISTING SOUNDINGS
- EXISTING SPOT ELEVATIONS
- NEW FINISHED GRADE

SMALL CRAFT HARBOURS

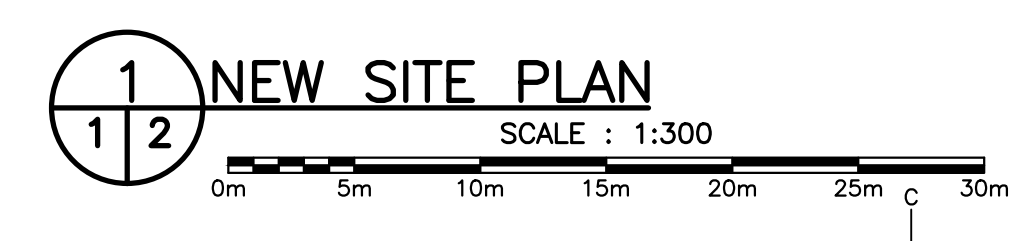


B	RE-ISSUED FOR 33% REVIEW	18/07/25
A	ISSUED FOR 33% REVIEW	18/07/19

**MARINA DEVELOPMENT
 PORT BLANDFORD, NL**

NEW SITE PLAN

designed	L. BENNETT	concu
date	JULY 16, 2018	
drawn	M. LEGGE	dessine
date	JULY 16, 2018	
approved		approuve
date		
Tender		Soumission
DFO Project Manager	Administrateur de projets MPD	
project number	722352	no. du projet
drawing no.	C2 OF 4	no. du dessin

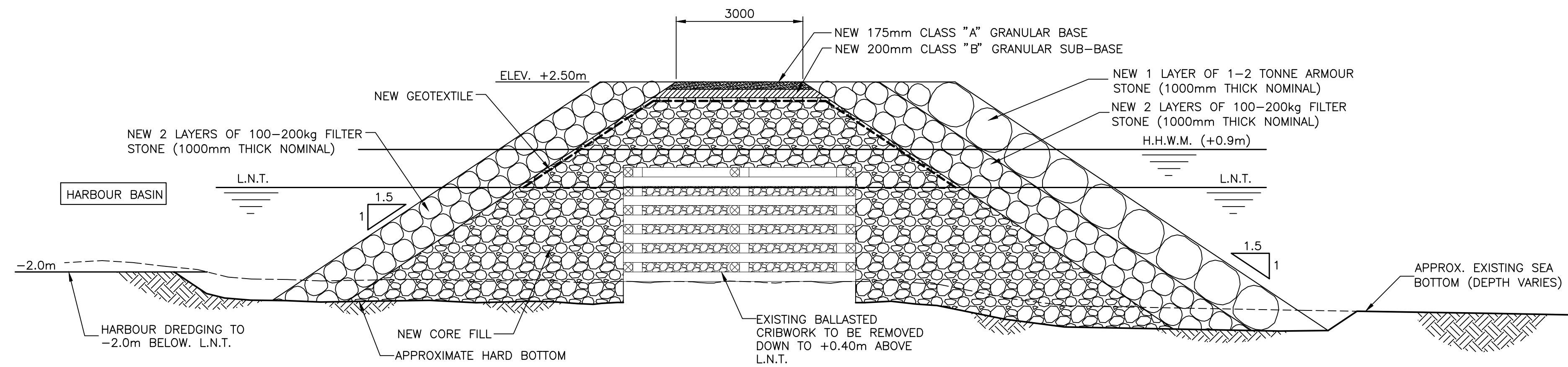


UTM GRID NORTH
 ZONE 21 (NAD83)



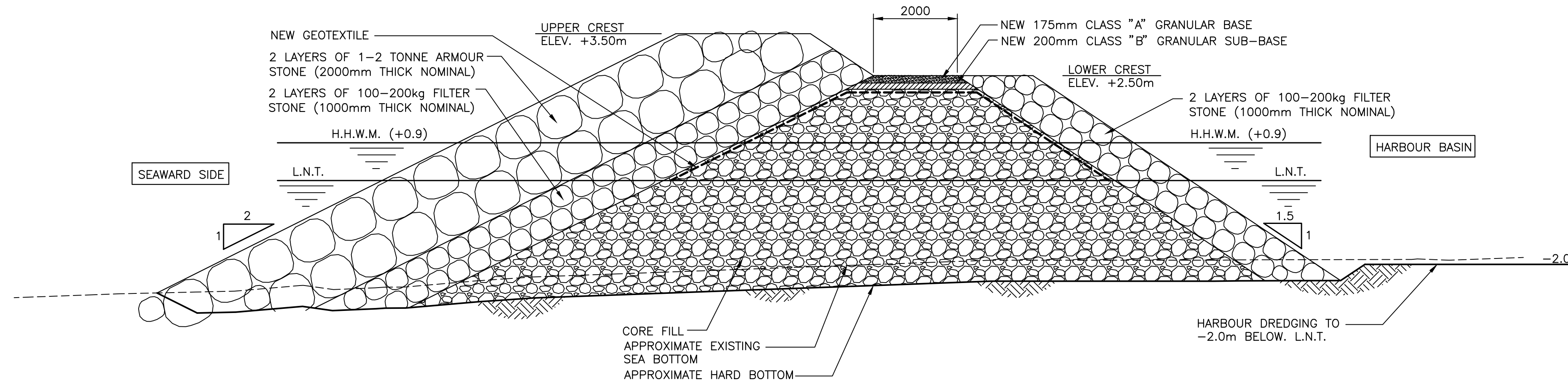
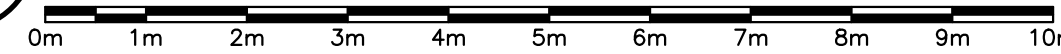
NOTES

1. DO NOT SCALE FROM DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. ALL SOUNDINGS AND ELEVATIONS ARE IN METRES.



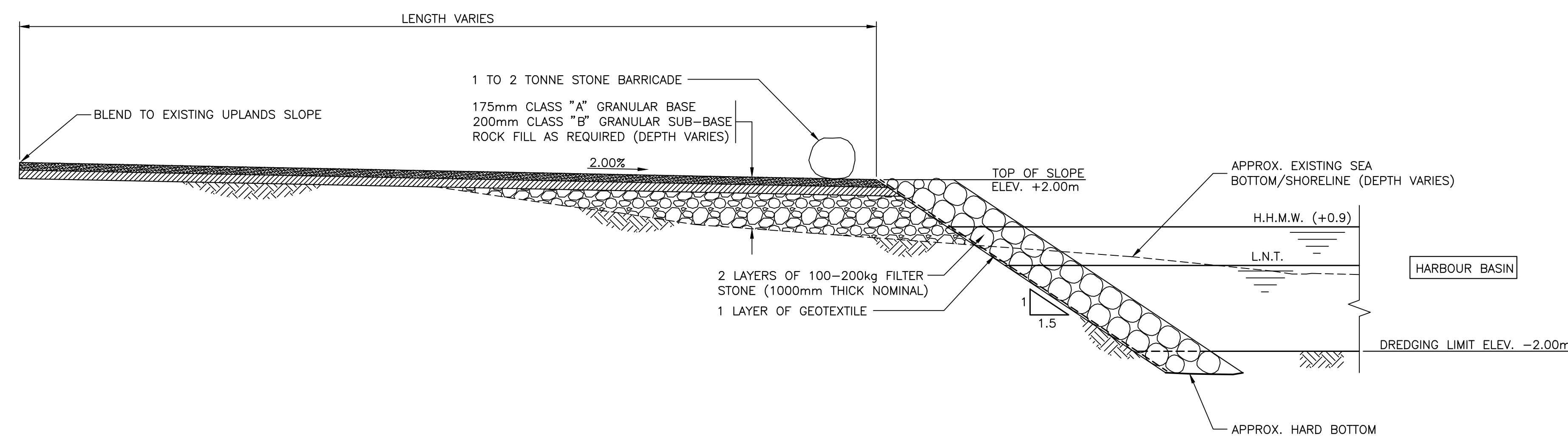
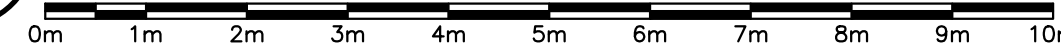
1 EXISTING FINGER PIER REPAIRS

SCALE : 1:75



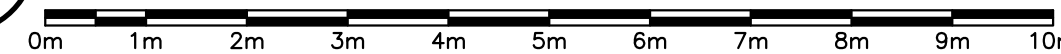
2 NEW RUBBLE MOUND BREAKWATER

SCALE : 1:75



3 NEW UPLANDS SHORELINE DEVELOPMENT

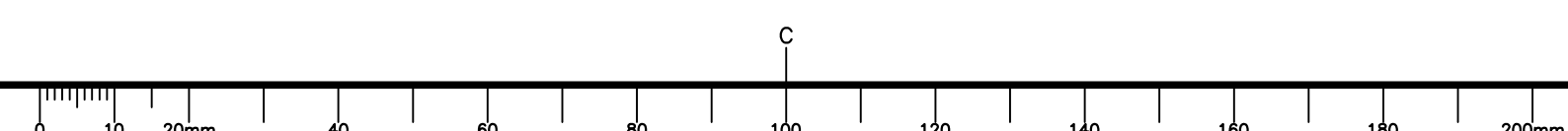
SCALE : 1:75



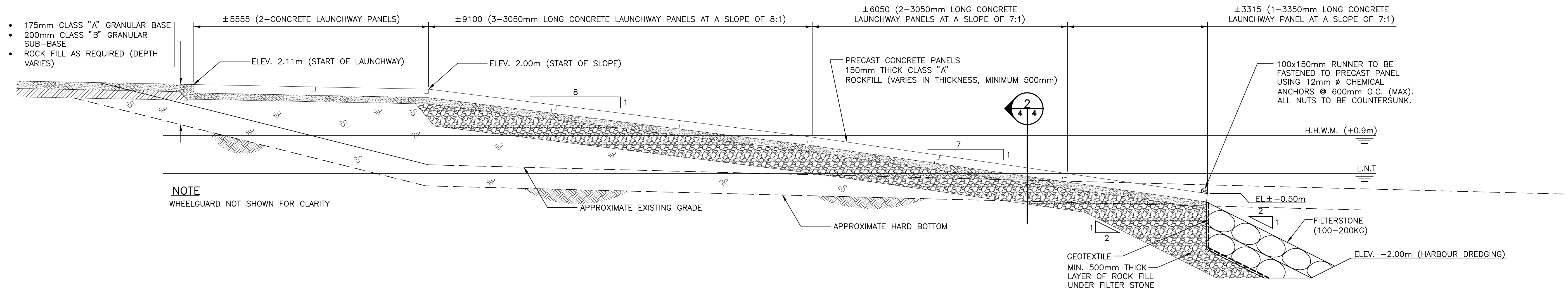
revisions	date
project	projet
B	RE-ISSUED FOR 33% REVIEW 18/07/24
A	ISSUED FOR 33% REVIEW 18/07/19

**MARINA DEVELOPMENT
PORT BLANDFORD, NL**

drawing	dessin
SECTIONS	
designed	conçu
date	JULY, 2018
drawn	dessiné
date	JULY, 2018
approved	approuvé
date	
Tender	Soumission
DFO Project Manager	Administrateur de projets MPD
project number	no. du projet
	722352
drawing no.	no. du dessin
	C3 OF 4



SMALL CRAFT HARBOURS

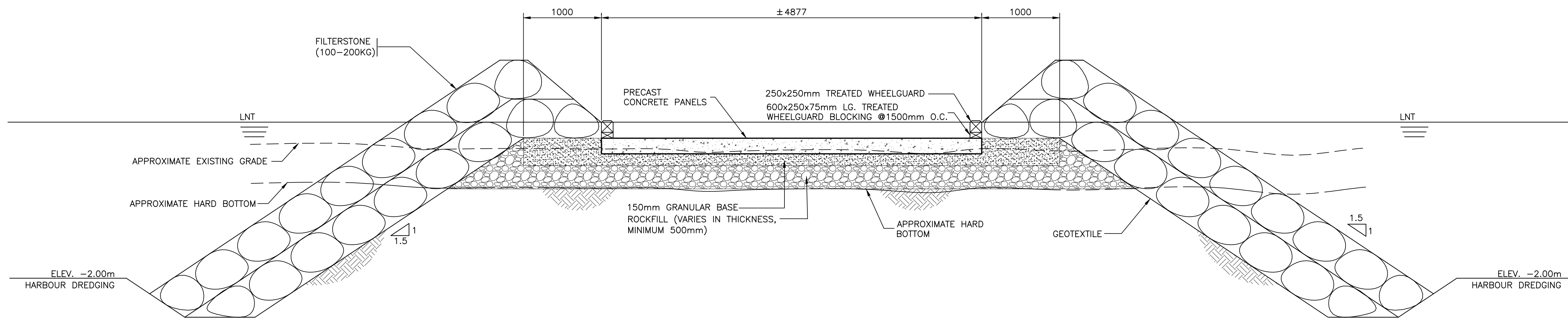


NOTE
WHEELGUARD NOT SHOWN FOR CLARITY

1
2 4 PROFILE - NEW LAUNCHWAY
SCALE: 1:50
0m 1m 2m 3m 4m 5m

GENERAL NOTES

- DO NOT SCALE FROM DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- ALL SOUNDINGS AND ELEVATIONS ARE IN METRES.



2
4 4 2 4 SECTION - NEW LAUNCHWAY
SCALE: 1:50
0m 1m 2m 3m 4m 5m

revisions	date
project	projet

MARINA DEVELOPMENT
PORT BLANDFORD, NL

LAUNCHWAY DETAILS

designed L. BENNETT	conçu
date JULY, 2018	
drawn R. SNOW	dessiné
date JULY, 2018	
approved	approuvé
date	
Tender	Soumission
DFO Project Manager	Administrateur de projets MPD
project number	no. du projet
722352	
drawing no.	no. du dessin
C4 OF 4	

